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**THE YEAR AHEAD:
PRAIRIE
AGRICULTURE
MINISTERS TALK
ABOUT 2017. |
P. 33-36**

CROP PRODUCTION SHOW



The Crop Production Show in Saskatoon drew good crowds Jan. 9 despite poor weather. See the Jan. 19 issue for full coverage of a week-long event that included the trade show, Crop Production Week and CropSphere. For a story from the event, see page 4. | MICHAEL RAINE PHOTO

CANOLA RESEARCH

New canola has exciting aquaculture possibilities

BY SEAN PRATT
SASKATOON NEWSROOM

BASF and Cargill have developed what's being called a "groundbreaking" canola, which they believe could expand demand the way high oleic canola did for the industry.

The oil produced from their EPA/DHA canola will be used as a replacement for fish oil in aquaculture diets.

"What this does is really create a new market opportunity, which is not in the basic commodity area," said Lorin Debonte, assistant vice-president of research and development in Cargill's food ingredient and bioindustrial business.

"I think it has tremendous benefits for agriculture in being able to diversify current crops or current supply chains."

Canola and other oilseed crops like soybeans and flax produce alpha-linolenic acid, a short-chain omega-3 oil.

SEE NEW CANOLA, P. 4»

CANADIAN GRAIN COMMISSION USER FEE

CGC posts \$100 million surplus

The surplus is a result of high export volumes — commission says a user fee reduction may be considered

BY BRIAN CROSS
SASKATOON NEWSROOM

The Canadian Grain Commission has built up a surplus of nearly \$100 million since 2013-14 through excess user fees collected from Canadian grain farmers.

That surplus has prompted the Western Canadian Wheat Growers Association to call for surplus fees to be immediately returned to farmers.

In a Jan. 3 news release, the association called the excess funds a "massive and unnecessary surplus" and invited all western Canadian grain farmers to demand a refund and an immediate reduction in user fees.

The association has also launched an online petition at userfees.wheatgrowers.ca.

"With approximately \$100 million of farmers' hard-earned money

User fees are supposed to help pay for (CGC) operations, but a nine figure surplus in user fees is shocking.

LEVI WOOD
WESTERN CANADIAN WHEAT GROWERS ASSOCIATION

having piled up into this enormous surplus, it's time to immediately give growers a break and reduce these user fees," said WCWGA president Levi Wood, who farms near Pense, Sask.

"User fees are supposed to help pay for (CGC) operations, but a nine figure surplus in user fees is shocking."

The association said farmers pay user fees worth roughly \$1.80 on

every tonne of grain that's delivered to an elevator.

Those fees are supposed to be used for inspection and weighing certification of grain being sold for export.

According to the wheat growers association, an average farmer who delivers 5,500 tonnes of grain to an elevator typically pays about \$10,000 a year in CGC user fees.

The excess funds are partly the result of Canadian grain export volumes significantly exceeding industry expectations over the past four years.

"It's a fair point that export volumes have been higher in the past few years than first estimated, so the volume of fees has also been much higher, but that's no reason to now hoard farmers' money," said WCWGA director Matt Sawyer, who farms near Acme, Alta.

"However, it is a great reason to

now reduce these user fees — which are clearly out of line for their intended purpose of those operations — and it's time to refund the surplus, giving the money from growers back to the growers."

Grain commission spokesperson Remi Gosselin confirmed that revenues collected through user fees have exceeded expenditures since the 2013-14 crop year.

He confirmed that a surplus of roughly \$100 million has been accumulated over the past three and a half years. The commission will begin a review of its current fee schedule in early 2017 and will be consulting with stakeholders for ideas on how the accumulated surplus should be managed.

Gosselin said CGC user fees are set every five years.

SEE CGC SURPLUS, P. 5»



JANUARY 12, 2017
Return undeliverable Canadian addresses to:
Box 2500, Stn. Main,
Saskatoon, SK. S7K 2C4

The Western Producer is published in Saskatoon by Western Producer Publications, which is owned by GVIC Communications Corp. Publisher: Shaun Jessome
Publications Mail Agreement No. 40069240

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Predator protection: British Columbia's Livestock Protection Program is a hit with producers. See page 24. | TOM WALKER PHOTO

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WHAT'S HAPPENING @ PRODUCER.COM

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WEATHER POLL
Drew Lerner told producers at CropSphere this week that weather for 2017 is difficult to predict. Where do you get your weather information?



AMALGAMATION POLL
Saskatchewan's decision to consolidate its 12 health regions into one has rural residents questioning whether services will deteriorate. What do you think?



CANOLA 100 POLL
The leader of Agri-Trend's Canola 100 challenge says extra nutrients and fungicide paid off on his 140-acre field. What works for you?

VIDEOS

CROP WEEK
An overview of all the activity that goes on during Crop Week in Saskatoon.



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



PLUS: Check out our coverage of all the Crop Week events going on in and around Saskatoon in this week's issue.

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BIOTECHNOLOGY

Gene editing may be future of plant breeding

New technology is cheaper and more publicly acceptable than genetic modification

BY ROBERT ARNASON
BRANDON BUREAU

Fifty million is a lot of money, and \$100 million is a whole lot more.

It now costs somewhere in that range for crop science companies to get a transgenic crop trait through the regulatory system and into farm fields in North America.

Seeing how it also takes years, possibly five to 10, to get such a trait to market, industry scientists and accountants are thinking long and hard about transgenic technology for crops other than corn and soybeans.

Dave Charne, DuPont Pioneer research director for Canada, said all technologies and options remain on the table, but it is harder to justify transgenics for canola.

"Corn is probably an order of magnitude bigger than canola, in terms of value of the industry, and hence the willingness of developers to invest in that kind of initiative," Charne said.

"Regulatory costs today are quite high. There are a lot of different estimates out there, but we can say it costs clearly tens of millions of dollars from the start of discovery to having a commercial (transgenic) trait on the marketplace."

We could say that it's a technology whose time has come.

DAVE CHARNE
DUPONT PIONEER RESEARCH DIRECTOR

Still, Charne said the crop science sector has developed genetically modified traits for canola and will likely continue to do so.

"The canola industry is big enough that that investment can be justified," he said. "(But) with the transgenic approach, you're in a completely different world in terms of the cost and the whole regulatory dimension."

Regulatory costs for genetically modified crops are much higher because companies have to conduct extensive safety tests on the novel traits.

DuPont and other big players in the seeds and traits industry are more cautious now about transgenic traits because another technology has arrived that is cheaper and less controversial.

Gene editing, using a technique called CRISPR, has been touted as the next big thing in plant science. It allows researchers to precisely delete or insert genes in a plant's DNA without disturbing other portions of the genome.

In a news release last year announcing a licensing agreement with a gene editing company, Monsanto described the technique as the "biological equivalent to the

'search and replace' function in computer word processors."

"Monsanto believes gene editing technologies have the potential to improve a number of crops within our current research portfolio, which includes corn, cotton, soybeans, canola, wheat and fruits and vegetable crops," Camille Scott of scientific communications with Monsanto said in an email.

"We are in the early days of exploring the potential application of this promising science and expect to graduate this research into our R&D pipeline going forward."

The situation is similar at DuPont, where scientists are dedicating time and resources to gene editing.

"We could say that it's a technology whose time has come," Charne said.

Despite the hype around gene editing, crop companies aren't abandoning transgenics.

"Monsanto's R&D efforts are always focused on delivering products that solve real problems for farmers and ultimately help feed a growing society," Scott said. "That's our priority no matter the type of technology we're developing."

Charne said DuPont will continue with transgenic traits for canola, but it needs to be a "step change" trait, something that improves yield by 10 percent or more.

DuPont and Monsanto may be committed to transgenics and traditional GM traits, but they are also aware of regulatory challenges and public hostility to such products.

For example, Reuters reported that the U.S. Environmental Protection Agency received more than 400,000 public comments about Dow's Enlist technology, in which corn and soybeans are tolerant of glyphosate and a new formulation of 2,4-D.

The scrutiny delayed the full release of Enlist from about 2013 until now. The technology will finally come to market this spring.

In contrast, it's possible that traits created through gene editing will receive little or no oversight. Last year, the U.S. Department of Agriculture decided a gene editing trait that delays browning in mushrooms would not be subject to regulatory approval.

Gene editing does have its limitations. It wouldn't be possible to create something like B.t. corn with the technology because corn genetics don't have resistance to a pest such as the European corn borer.

"You can modify what exists (in a plant's DNA) in much more precise ways (with gene editing)... but you can't bring in... absolutely new and novel traits," Peter Pauls, department chair in plant agriculture at the University of Guelph, said in 2015. "The old technology... there are no species boundaries. That's the beauty of it. That's the magic of it."

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SATISFYING SUPPER



A redpoll forages for seeds in a field east of High River, Alta. | MIKE STURK PHOTO

BIOTECHNOLOGY

Failure to explain, educate public about GM a mistake: Monsanto

BY ROBERT ARNASON
BRANDON BUREAU

Mistakes were made more than two decades ago when genetically modified crops first came to market, says a Monsanto executive.

Robb Fraley, the company's chief technology officer, said those errors still haunt agriculture, and industry leaders can't repeat them with a new technology known as genome editing.

"In the case of the GMO technology, one of the things I've talked about often over the last several years (is) we clearly made a mistake in not reaching out to the public and having that dialogue up front," Robb Fraley told a conference call with reporters Jan. 5 to discuss the company's research and development projects.

He said the crop science industry and academics have been more proactive with genome editing, which can precisely delete and insert genes in an organism's DNA.

"Our company and many other

companies and universities involved in this have done a much more extensive communication to both the public and key regulatory and policy makers," he said.



ROBB FRALEY
MONSANTO

Fraley answered several questions about genome editing during the conference call, including whether he expects a public backlash similar to GM crops.

He said it's less likely because the scientific process is less controversial.

"In the GMO technology, we're often introducing a new gene. In

the case of gene editing technology, we're making very precise changes to the genes that are already in the plant," Fraley said.

"I think that's one of the reasons it (genome editing) is (being) viewed differently."

Fraley described it as the next generation of advanced biotech in agriculture, and Monsanto is backing his opinion with cash.

The company signed a licensing deal Jan. 4 with an institute associated with Harvard, which has developed a new method for genome editing.

The technology's emergence should be good news for proponents of crops that are not corn or soybeans because developing crop traits may soon take less time and money.

"It opens up significant opportunities with some of the smaller crops," Fraley said.

"It represents an exciting opportunity to accelerate crop improvement."

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CANADIAN WEATHER AT WORK



Wind warnings have been frequent this winter in southern Alberta with gusts of more than 100 km-h in some locations. The strong winds are quick to destroy flags and move anything that isn't heavy or nailed down. | MIKE STURK PHOTO

CROP PRODUCTION

Weather outlook unpredictable

Everything is 'very confused' as far as atmospheric patterns are concerned

BY SEAN PRATT
SASKATOON NEWSROOM

Drew Lerner's 2017 weather forecast for Western Canada came with a larger-than-usual caveat.

"This is the absolute worst time for me to come up and speak to you guys because everything is in flux," the president of World Weather Inc. told delegates attending CropSphere, an event held Jan. 9-11 in Saskatoon.

There is no El Nino and no La Nina to help guide this year's forecast. The world is in a state of flux because the atmosphere is "very confused."

"It becomes very difficult to find patterns because everything is just all stirred up," he said.

When that happens, Lerner usually relies on the 18-year weather cycle to shape his forecast, but looking back on 1999,

1981 and 1963, no real patterns emerge, at least for the winter and spring.

His 30-day forecast through mid-February calls for a warmer bias for the Prairies.

"We have drained the Arctic of any kind of bitter cold."

He hopes warm weather will gradually melt some of Manitoba's abundance of snow, which likely contains 64 to 128 millimetres of water.

The remainder of winter will generally lean toward drier and cooler weather, although Alberta could be warmer than normal.

The only hint Lerner gleaned from the 18-year spring charts is that it's going to be stormy in the southern United States and that is good news for the waterlogged Canadian Prairies.

"The more storminess they get down there, the better off it will be up here in Canada because all of

the energy in the atmosphere will be focused down there," he said.

The charts finally align for the summer forecast.

"It's not going to be a dry summer. It's going to be another one of these years in the wet cycle," said Lerner.

A weak high-pressure system across the U.S. will lead to frequent storms in the Canadian Prairies.

"It will not be as wet as it was in 2016, but if you're looking for us to turn dry and start a new pattern towards the dry side, it won't happen until we get to late summer, if it's going to happen," he said.

Lerner warned growers not to count on price help from other regions of the world. Conditions favour good crops in the United States, South America and the Black Sea region.

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NEW CANOLA

» CONTINUED FROM PAGE 1

The crop BASF created, which Cargill will be breeding, contracting and marketing, produces eicosapentaenoic acid (EPA) and docosahexaenoic acid (DHA), two long-chain omega-3 oils.

Organizations like the American Heart Association cite the heart health and brain development benefits of consuming EPA and DHA by eating fish, but studies show most people do not consume enough.

That is one reason the aquaculture industry has taken off. Farmed fish get their EPA and DHA by consuming fish oil, which comes from harvesting and grinding up wild fish.

Debonte said growth in the aquaculture industry has been constrained by the high price and limited supply of fish oil.

Cargill demonstrated in salmon feeding trials in Chile that it was able to completely replace fish oil in feed rations with oil from its EPA/DHA canola.

Grand View Research recently published a study forecasting that the global fish oil market will grow to US\$4.08 billion by 2022 from \$2.25 billion in 2014. Aquaculture accounted for \$1.97 billion of the market in 2014.

Debonte doesn't think the specialty canola oil will displace fish oil, but it will add to the much-needed supply of a source of EPA/DHA and reduce the pressure on ocean fisheries.

"What we're doing is providing the opportunity for the aquaculture industry to grow," he said.

Cargill is in the process of analyzing the last year of trials for the product and will be submitting the trait for global regulatory approval this year.

The approval process typically takes four years, but it can be shorter or longer. Once approvals are in place, the trait would be commercialized in Canada and the United States.



BRETT HALSTEAD
CANADIAN CANOLA GROWERS ASSOCIATION

Brett Halstead, president of the Canadian Canola Growers Association, welcomed news of the new canola trait, which was created by transferring a pathway or series of genes from cold water algae into canola.

"If they can develop a market and we can grow it and be profitable, that's good news," he said.

Debonte said the EPA/DHA canola would add to the three million acres of specialty canola grown in North America, which is primarily high oleic canola.

"This has the potential to continue to grow in that size of a share," he said.

Debonte said he doesn't expect the new trait will expand canola acres, but it should increase grower returns through price premiums.

Performance trials have shown

the EPA/DHA canola delivers yields similar to Victory, which is the top 10 percent of canola yields. It also has the same oil and protein content as Victory.

The biggest challenge will be how to segment the crop.

Cargill already has a segregation system in place for high oleic canola but this one is going to be more difficult because EPA/DHA is not a stable oil and can easily go rotten.

"That's why fish smell. What you're smelling is the degradation of the EPA and DHA," said Debonte.

We'll have to design more specialized processing and integrated supply chains to manage the end quality of the product.

LORIN DEBONTE
CARGILL

"What we don't want is to move that into a supply chain where people want clean flavour, high stability oils."

Contracting and management of the supply chain is going to have to be extremely tight. Growers won't be permitted to grow EPA/DHA canola followed by commodity or high oleic canola due to possible volunteer plants the following year.

"It will change the dynamics of how canola will be contracted on the farm," he said.

Halstead said growers can manage a tight identity preservation system as long as they are provided with a clear explanation of their obligations.

"There are people that grow high erucic rapeseed yet and that very much can't enter the canola market either," he said.

But he said there must be premiums that go along with the extra work involved with segregating the crop and disrupting rotations.

Debonte said there will also have to be some changes in the handling and processing system.

"We'll have to design more specialized processing and integrated supply chains to manage the end quality of the product," he said.

Cargill engineers are looking at designing small, specialized crush plants that would take into account factors such as exposure to light and air, which causes the oil to oxidize and go rotten.

It would be a big departure from Canada's high efficiency bulk handling system.

Cargill believes it can manufacture oil that will be price-competitive with fish oil and will become more price-competitive as canola yields continue to rise.

In 2015, Cargill purchased EWOS, one of the world's largest suppliers of feed and nutrition for farmed fish, so the EPA/DHA canola will fit into its plans for an integrated supply chain.

BASF and Cargill are not the only ones working on the trait.

Australia's Commonwealth Scientific and Industrial Research Organisation (CSIRO) is developing a DHA canola in conjunction with the Australian Grains Research and Development Corporation and Nuseed.

CSIRO said it is close to commercializing a product.

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HOT DIGGITY DOG | It was time to warm up around the fire with a weiner roast after sleigh rides at Lionel Story Farm near Netherhill, Sask., Dec. 30. | PAULA LARSEN PHOTO

CGC SURPLUS

» CONTINUED FROM PAGE 1

The current schedule of fees was implemented in 2013-14 and is due to expire at the end of the 2017-18 crop year. A new fee schedule will be implemented at that time to cover 2018-23.

"We made commitments to our stakeholders that we would review our fees every five years, and we are doing that in relatively short order," Gosselin said. "In addition to that, the CGC is examining potential options to use the accumulated surplus and that will include an assessment of stakeholders' views on the various possibilities."

Gosselin said upcoming consultations will include discussions on potential user fee reductions and methods of allocating the current CGC surplus.

He said the surplus is the result of high grain volumes and lower-than-expected expenses on programs financed through user fees.

The wheat growers association said it hopes grain growers will use its online petition to request an immediate reduction in user fees and a refund of the surplus.

"It's been a tough year with the nasty weather we've had and lower commodity prices, so a fee reduction and refund will go a long way to help growers," said Graeme Manness, an association director who farms near Domain, Man.

"And it is growers' money, that's why we're asking our farming colleagues to join with us in calling for the reduction and refund of our hard-earned dollars back to us at the farmgate."

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ALBERTA CARBON TAX

Greenhouse sector gets carbon rebate

B.C. operators receive an 80 percent rebate, which may have influenced the Alberta government's decision

BY **BARB GLEN**
LETHBRIDGE BUREAU

Alberta's greenhouse industry will get relief from the newly implemented provincial carbon levy.

It's good news for growers who were facing a \$1 per gigajoule increase on natural gas this year and another 50 cents per gigajoule increase in 2018.

The government announced Dec. 31 that greenhouse growers will be able to recoup up to 80 percent of the carbon levy on natural gas.

For Albert Cramer, vice-chair of the Alberta Greenhouse Growers Association and operator of two large vegetable-growing greenhouses in the Medicine Hat area, the rebate is a huge relief on all fronts.

"Natural gas is our biggest fuel," he said, speaking of all Alberta greenhouses.

"It's one of our biggest expenses, besides labour, so it's a big deal."

Cramer said the industry did some intense lobbying in an effort to obtain a rebate, and the government listened.

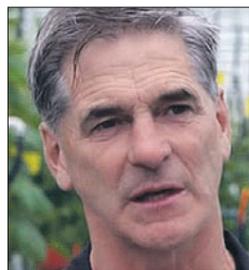
"They've been very responsive," he said.

"I'm going to say I was surprised. I don't like to sound negative, but sometimes we feel government is never listening. We were very

pleasantly surprised."

British Columbia's greenhouse industry is the primary competition for Alberta growers, and B.C. operators receive an 80 percent rebate on the carbon levy there. Alberta's carbon reduction plan was based in part on the B.C. version, and Cramer said he thinks that helped make the case.

"It's a two year (rebate) program that they set out, so they did put a limit on it," he said.



ALBERT CRAMER
ALBERTA GREENHOUSE GROWERS ASSOCIATION

"What we as an industry are going to do is continue to work with the government."

The carbon levy is part of the Alberta Climate Leadership Plan, which imposes a \$20 per tonne levy on all fuel that emits greenhouse gases. That figure rises to \$30 per tonne in 2018.

As of Jan. 1, there is a 4.49 cents per litre levy on gas, 5.35 cents per

litre on diesel, 3.08 cents per litre on propane and \$1.011 per gigajoule on natural gas. Marked farm fuels are exempt.

Low and middle-income households will receive full or partial rebates on the levy, according to the government plan. Money collected is to be reinvested in projects to diversify the economy and reduce "carbon pollution," the government said.

Rallies held in various cities over the past few months called on the NDP government to delay implementation of the climate plan and put it to a referendum. That did not occur, and the plan was implemented Jan. 1.

Several agricultural commodity groups have spoken against the carbon tax amid concerns it will increase input costs for farmers on everything from fertilizer to transport.

Cramer acknowledged that other sectors have sought relief from the tax.

"The government is in a tough spot," he said. "Everybody's asking for a rebate. They did look at our industry, and I think it's because it's local food and now with the industry, the way it's going with year-round production, it's very high costs."

Electricity is one of those costs, and it isn't yet known how the carbon tax will affect electrical rates.

At Cramer's Big Marble Farms, which produces vegetables year round, electricity costs are even higher than natural gas heating costs.

Huge increase

Without a rebate, the carbon tax would have increased natural gas costs by \$300,000 for Big Marble in the first year of implementation.

The government has also developed programs to help greenhouse growers increase their energy efficiency.

"That's an ongoing thing. We'll continue to work with the government and try to of course extend that program," Cramer said.

Government plans to increase the minimum wage to \$15 per hour by October 2018 is another worry for greenhouse operators, he added.

"The numbers get really big when you start to deal with minimum wage (and the) carbon tax," he said.

"It was something that was hitting us, both at the same time, so we had to react to try to get the government to understand our industry and that there's not that much profit in this industry to be able to absorb that just in one shot."

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MARKETS



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PROFITABILITY FORECAST

Report shows winners, losers

Manitoba Agriculture's crop production guide offers an optimistic forecast for various crops

BY ED WHITE
WINNIPEG BUREAU

ST. JEAN BAPTISTE, Man. — It looks like Manitoba farmers will likely make money on most of what they grow this year.

And while anything could happen with crop prices and yields, the current outlook for revenue exceeding operating and fixed costs for many crops is a lot better than at the same time in other recent years.

"I don't think things look quite as bad this coming year ... as a year ago," Manitoba Agriculture farm management specialist Roy Arnott said in a presentation at St. Jean Farm Days.

The situation looks especially sweet in the Red River Valley, which sees its mainstay crops topping the likely profitable rankings for Manitoba. Navy beans, soybeans, confectionary sunflowers, winter wheat and corn are the top five Manitoba returners and dominant crops in the valley.

The situation isn't as good for western Manitoba, with barley being one of the worst-returning crops and wheat falling into the bottom half of the list.

Canola and oats fall sixth and seventh on the list and close to the likely profitability of corn, winter wheat and confectionary sunflowers.

Manitoba Agriculture's farm management specialists produce these numbers every year at this time. They are based on many assumptions regarding operating and fixed costs, yields and price. Any of those could change substantially in coming months, but with present expectations, this is what the farm management team believes farmers can most reasonably assume.

Arnott was happy to see break-even yields at levels that shouldn't challenge farmers outside of crop disasters. The average Manitoba farmer needs to harvest 35 bushels per acre of canola, 50 of wheat, 28 of soybeans and 104 of corn in order to cover both operating and fixed costs.



FILE PHOTO

CROP PRODUCTION COSTS 2017 GUIDELINES (Dollars per acre)

	Canola	Wheat	Soybeans	Barley	Oats	Corn	Flax	Peas	Lentils
Operating costs	254.05	192.30	198.73	176.38	151.47	311.72	162.20	148.08	162.48
Fixed costs	120.16	122.17	119.63	125.50	128.17	130.84	118.16	120.16	117.27
TOTAL	374.21	314.46	318.36	301.89	279.64	442.56	280.36	268.24	279.75
Profitability analysis									
Estimated farmgate									
Market price (\$ per unit)	10.75	6.25	11.50	3.50	3.20	4.24	12.50	7.00	.24/lb.
Yield per acre (bu. or lb.)	40	55	36	80	100	120	25	40	1,100 lb./acre
Gross revenue/acre	430.00	343.75	414.00	280.00	320.00	510.00	312.50	280.00	264.00
Marginal Returns									
Over operating & fixed costs	55.79	29.29	95.64	-21.89	40.36	67.44	32.14	11.76	-15.75

The outlook for crop production profitability in 2017 is optimistic, according to Manitoba Agriculture forecasts. At this point most major crops should be able to pencil in a return over operating costs such as inputs, machinery and insurance and fixed costs such as land, depreciation and storage.

Source: Manitoba Agriculture

"Those are all achievable, obtainable yields," said Arnott.

The profitability ranking provides bad news for former popular valley crops such as flax and canaryseed, while hemp also sits low on the list.

The biggest losers in the forecast are barley, buckwheat and lentils, which will probably fail to cover total costs. However none of those crops provide a large share of most Manitoba farmers' income.

The analysis and electronic work sheets are available online on the Manitoba Agriculture website, allowing farmers to customize

many of the internal assumptions of the calculations.

An element of the analysis that Arnott stressed was measures of risk that allow farmers to consider more than just overall costs or returns for crops.

It contains estimates of likely yield over break-even yield, AgriInsurance coverage over operating cost and a sensitivity analysis of what happens if prices drop 10 percent and yields drop five percent from assumptions.

Arnott said these measures should help farmers understand

the varying levels of risk with different crops.

For instance, oat gross revenues per acre are much lower than that for corn, but corn is an extremely expensive crop to grow.

Corn's likely profitability needs to be compared to its cost risk and insurance coverage in order to be able to properly compare it to crops such as oats.

For more information visit the Manitoba Agriculture website bit.ly/2jaPLYB.

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CROP OUTLOOK

Canadian prices buoyed by weak loonie

A big wild card is Donald Trump's view on trade

BY ED WHITE
WINNIPEG BUREAU

ST. JEAN BAPTISTE, Man. — Canadian farmers should continue to be shielded by a relatively weak loonie and friendly domestic stocks of crop, says analyst Bruce Burnett of G3 Canada.

But farmers shouldn't count on continued strength in world oilseed prices nor a significant decline of the world glut of wheat.

"I know prices aren't great, but they certainly could have been a lot worse," said Burnett, noting that the weak Canadian dollar relative to the American dollar helped lift crop prices north of the border.

"We could see continued strength of the U.S. dollar and I think that's probably what's going to happen here unless things really go off the rails for the U.S. economy."

Many farmers at St. Jean Farm Days held in St. Jean Baptiste where Burnett spoke, are familiar with the spread between prices offered in American vs. Canadian denominations, many of them shipping grain across the border to United States elevator points in northern North Dakota.

A strong U.S. dollar can mean Canadian per bushel prices more than a dollar higher than U.S. per bushel values.

This gives Canadian farmers crucial cash to pay for inputs and meet debt payments.

Burnett said he doubted the U.S. dollar would significantly weaken in 2017.

The U.S. economy is one of the strongest in the world and incoming president Donald Trump's promise to spend on infrastructure, which some worry will be inflationary and therefore weaken the U.S. dollar, will actually be modest in scope and will not reverse the trend of strong greenback.

The Canadian dollar is actually firm relative to other global currencies, Burnett said.

CONTINUED ON NEXT PAGE >>

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LENTIL OUTLOOK

Huge Australian lentil crop could see prices weaken

The bumper crop poses competition for Canada

BY SEAN PRATT
SASKATOON NEWSROOM

Pulse crop analysts believe red lentil prices could fall in the second half of 2016-17.

The biggest immediate threat is the unusually large Australian lentil harvest making its way to markets in Asia and the Middle East.

The Australian Bureau of Agricultural and Resource Economics and Sciences (ABARES) estimates farmers harvested 450,000 tonnes of lentils, up 63 percent over the five-year average.

Marlene Boersch, analyst with Mercantile Consulting Venture, said in a recent article she wrote for Saskatchewan Pulse Growers that she believes the crop is "substantially bigger" than the ABARES report.

"This will tip the supply-demand balance and pressure markets in Asia and the Middle East," said Boersch. "So even with the overall increased demand for lentils and the catch-up demand from last year, we could see red lentil values weaken."

Peter Wilson, chief executive officer with AGT Foods Australia, said farmers in that country are still in the thick of harvest but so far it looks to be a good quality bumper crop.

He said a record area of lentils was seeded in southern Australia, and growing conditions were ideal.

"I would agree with Marlene's comments," he said in an email.

"Quality so far looks to be good from the Australian harvest, with

minimal rain interruptions experienced thus far."

Chuck Penner, analyst with Left-Field Commodity Research, said his contacts have told him the Australian lentil crop is more than 500,000 tonnes.

The initial June ABARES estimate for the 2016-17 crop called for 330,000 tonnes of production, so that is far more lentils than the market was anticipating. That presents stiff competition for Canada in overseas markets.



CHUCK PENNER
LEFT-FIELD COMMODITY RESEARCH

New crop Australian desi chickpeas and red lentils started being loaded on vessels in November with the heaviest shipments occurring in December and January.

"We would see strong arrivals into key destination markets spread from December to February and beyond," said Wilson.

"These arrivals combined with earlier product from Canada and a good local crop of pigeon peas in India will see the supply pipelines satisfied for the moment."

Penner said the chickpeas were



Canadian farmers harvested a huge lentil crop but quality problems have hurt exports. Now, a big Australian crop will present new competition. | FILE PHOTO

the first to arrive in India. Australian farmers harvested 1.23 million tonnes of the crop, which was 59 percent more than the previous five-year average.

"Now we're seeing (Indian) chickpea prices just plummet because of the arrival of Australian chickpeas," said Penner.

Lentil prices are starting to soften, but the chickpeas were harvested before the lentils so the full impact of the Australian lentil exports has not been felt.

"There's probably more to come," said Penner.

Wilson said buyers have plenty of options to consider when buying lentils.

"We can expect them to work carefully to get the best deals possible

from suppliers such as Australia and Canada," he said.

Boersch estimated Canadian lentil shipments were behind last year's pace as of the end of December, despite growers harvesting a crop that was 28 percent bigger.

Part of the problem is finding the right quality. She estimated that 380,000 to 400,000 tonnes of Canadian lentils can't be sold for human consumption.

There are also concerns about India's looming rabi (winter) crop. Farmers had planted nearly four million acres of lentils as of Dec. 30, which is 19 percent ahead of last year's pace and 11 percent above the previous five-year average.

Soil moisture conditions were

good and reservoirs were full at seeding, which could result in a large domestic supply of lentils.

However, almost no rain has fallen since planting occurred.

"Trying to guess the size of the rabi pulse crop at this time of year is high impossible," said Wilson.

Another bearish factor in the lentil market is the looming March 31 expiration of an Indian policy exemption that allows Canadian pulse shipments to be fumigated with methyl bromide in India rather than in Canada.

That has exporters worried because shipments could be turned away if the exemption is not extended.

sean.pratt@producer.com

» CONTINUED FROM PREVIOUS PAGE

He expects that will continue, because crude oil prices are rising, which should add strength to Canada's economy.

Returning to a 2003 level of 63 cents compared to the U.S. dollar isn't likely.

"We're not going to come close to that," he said.

The big wild card is Trump's unpredictability and possible bel-

ligerence toward trade.

However, even if the U.S. and China fight over trade, Burnett doubts China can do much to reduce its reliance on U.S. soybeans. Other than the U.S., only Brazil and Argentina make major exports to China, and the country needs the crop.

Shutting the door to U.S. soybeans would short domestic needs. "I think it's highly unlikely."

World stocks of oilseeds and

wheat aren't friendly for higher prices.

Oilseed prices are more likely to weaken than strengthen, and the global pile of wheat isn't disappearing.

However, Canadian farmers are in a better position than many U.S. farmers because local supplies aren't that burdensome.

Canola demand is strong for both exports and crushing.

As for wheat, while global sup-

plies are ample, high protein wheat is in short supply, which explains the big spread between U.S. hard red winter wheat and hard red spring wheat.

Some people fear that spring wheat might sell off to bring the spread back in line, but Burnett said he thinks a HRWW rally is more likely.

The spring always brings some shifting between corn and soybean acres in the U.S. but Burnett said

the present soybean-corn ratio doesn't bias planting decisions either way.

Soybeans are now at 2.3 times the value of corn, which is close to the historical norm.

At one point, soybeans were more than three times the value of corn, which would have prompted farmers to seed more acres of the oilseed.

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STOCKS-TO-USE

Wheat surplus may drop, boosting prices in 2017

MARKET WATCH



D'ARCE McMILLAN

Wheat futures are edging higher in early 2017, and the crop has generated some market talk.

The gist is that wheat prices have been in the doghouse for so long that they might be due for an improvement.

There is some reason for this hope, but the crystal ball view is clouded by a lot of conflicting data.

Dry weather in the U.S. southern Plains, where hard red wheat is grown, has wheat condition reports for Kansas and Oklahoma well below where they were last year.

Cold temperatures have pushed south into the U.S. southern Plains and into Eastern Europe, raising the potential for crop damage in areas where there is no protective snow cover.

However, wheat is resilient, and a good spring could offset any current problems.

U.S. winter wheat acreage is likely down. The U.S. Department of Agriculture today issues the results of its first farmer survey of



The wheat market mindset has been dominated by a perception of ample supply. China's huge stocks confuse the global numbers but even without them, there is no shortage. Reduced U.S. production for 2017-18 might lift prices. | FILE PHOTO

seeded acreage.

U.S. winter wheat yields in 2016 were spectacular, up 30 percent from 2015, making up for the nine percent decline in seeded area.

This year analysts expect another cut in seeded area, down about eight percent to around 33 million acres.

Given an acreage decline, and if yields fell back to the recent average, there should be a significant decline in U.S. wheat production.

That would support wheat futures prices, but although wheat traders focus a lot on developments in the United States, they don't ignore what is happening worldwide.

The cut in U.S. wheat acreage will likely be offset by an increase in

winter wheat seeded area in Russia and North Africa, according to the International Grains Council.

So it is really hard to forecast what global wheat production will look like.

Also, the global wheat carry-in to the 2017-18 crop year will be record high at 252 million tonnes, according to the USDA.

Global wheat demand is almost 740 million, so the stocks-to-use ratio is forecast at about 34 percent, well up from 26 percent five years ago.

That would appear to be a negative for prices, but if you dig into the numbers, you see that almost all the increase in global wheat stocks in recent years has occurred in China, although rising U.S. stocks

have also been a factor.

China's stocks of 112 million tonnes are more than double what they were in 2012-13.

China does not traditionally export wheat, so unless they change that policy, their stocks are almost irrelevant to the actual wheat market.

If you remove China from the global stocks-to-use calculation, you find that the ratio has been little changed during the past five years, ranging from a low of about 22 percent to a high of 24 percent.

The ratio for this year, excluding China, is 22.6 percent.

That is still a comfortable supply, but not the disastrous burden implied by the global number that includes China.

I mentioned that wheat stocks in the U.S. have also been an issue. Looking exclusively at the U.S., its stocks-to-use-ratio has risen to about 50 percent. Its strong dollar has discouraged exports, causing stocks to climb.

If American growers reduce production as expected, that ratio would likely drop under 40 percent, which is a much less burdensome number.

There is nothing in this data to support a rip-roaring rally, but the 2017 wheat market might be a little more upbeat than 2016.

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

SOUTH AMERICAN WEATHER

Argentine soybean, corn seeding delayed by rain

BUENOS AIRES, Argentina (Reuters) — Expectations of big South American soybean and corn crops have been thrown into question by weather in Argentina.

Brazilian weather is still favourable to a big crop, but in late December and early January storms pounded Argentina's breadbasket province of Buenos Aires, delaying corn and soy planting.

The country is the world's No. 3 exporter of corn and soybeans. It is also the world's top supplier of soy meal livestock feed.

"It rained heavily over Christmas and then again over the weekend of Dec. 31. This washed out some fields and rural roads, which delayed some planting of summer crops (soy and corn)," said Natalia Gattinoni, an analyst with the government's Institute of Climate and Water.

Rain continued in several central and northern areas last week, but drier weather was in the forecast.

While recent excess rain raised worries about completion of the tail end of seeding and perhaps the need to reseed some fields, earlier in December the worry was about dry conditions in southern regions.

The Buenos Aires Grains Exchange last week lowered its soybean seeded area forecast to 47.7 million acres from a previous forecast of 48.4 million. It cited dry

conditions in southeastern Buenos Aires province as the reason for the decline.

Last year it seeded 49.1 million acres to the oilseed.

"The planting window has closed in southeastern Buenos Aires. The prolonged drought in that area did not permit a considerable amount of seeding to take place," the exchange said in its weekly crop report.

The planting window has closed in southeastern Buenos Aires. The prolonged drought in that area did not permit a considerable amount of seeding to take place.

BUENOS AIRES GRAIN EXCHANGE REPORT

Even before the weather problems, farmers were cutting back on soy this year in favour of seeding more wheat and corn, which have benefited from new government policies encouraging export of those two grains.

While Argentina weather was capturing headlines, forecasts for Brazil's crops are creeping higher and could offset the declines in its southern neighbour.

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CANFAX REPORT

FED MARKET STRONGER

In an abbreviated report, Canfax said the weighted average for steers was \$159.47 per hundred-weight, up 92 cents, and heifers were \$158.24.

Canadian cattle prices rallied through the holidays and were the highest since June.

Both major Alberta packers were buying.

The Canadian dollar rallied about one cent.

Average steer carcass weights for Dec. 31 were 914 pounds, down from 921 lb. the previous week.

The weight was 940 lb. a year ago.

In the United States, slaughter-ready, or cash, cattle in the Plains fetched US\$116-\$118 per cwt., steady to down \$4 from the previous week.

Chicago cattle futures stalled after the significant rally in the fourth quarter of 2016.

Live cattle futures dropped almost \$48 from the spring high to the October low, but the futures had regained half of those losses by the end of the year by rallying \$24.

Traders in the Chicago market last week were cautious to see how demand develops early in the new year.

Wholesale beef prices in the U.S. weakened.

American packers had ample supply, but their margins were still good, which might limit the downside.

NON FED MARKET

Cow prices were a little stronger last week.

D1, D2 cows ranged C\$92-\$101 to average \$97.50. D3 cows ranged \$80-\$94 to average \$86.83.

Railgrade cows were \$181-\$186.

Slaughter bulls were \$105.88, down \$2.54.

FEEDERS

Canfax said the feeder market was lightly tested in Alberta last week.

Calf prices were steady with where they ended 2016, and heavier feeders had a stronger tone.

Auction trade will get back to normal this week.

U.S. BEEF LOWER

Choice cutouts were US\$201.52 per cwt., down \$1.95. Select was \$193.39, down 50 cents.

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.

FREEZING TEMPERATURES

Severe frost may damage Ukraine's winter crops

The country's farmers seeded 700,000 more winter acres for 2017, mostly winter rapeseed

KIEV, Ukraine (Reuters) — A sharp fall in temperatures in Ukraine may have damaged the country's winter grain crops because of a lack of snow cover on the fields, analyst UkrAgroConsult said.

A cold snap starting Jan. 6 caused air temperatures to fall to an average 13 to 17 Celsius below zero, and perhaps even to -20 C.

"The current level of snow cover is insufficient for reliable protection of winter crops against frosts harsher than -15 degrees lasting for five days," Ukr AgroConsult said.

"Survival ... by winter crops will

entirely depend on the amount of snowfall in this period."

A majority of Ukraine's fields were covered with at most four to five centimetres of snow as of Jan. 5, according to forecasters.

MDA Information Systems reported Jan. 9 that damage was spotty as snow came with the cold.

Ukrainian farmers have increased the area seeded for the 2017 harvest to about 20 million acres from 19.3 million acres a year earlier, mostly because of a higher area under winter rapeseed.

Most of the seeded winter grain area was seen in good and satisfactory condition as of Dec. 29.

WP LIVESTOCK REPORT

HOG PRICES CREEP HIGHER

Cold weather in the United States slowed hog delivery, but retailers had adequate inventory and slowed their buying.

Markets will closely watch domestic and export demand in coming weeks. Demand was excellent in December, supporting strong processing margins in the U.S.

The U.S. national live price average for barrows and gilts was US\$42.30 per hundredweight Jan. 6, up from \$41.13 per cwt. Dec. 29.

U.S. hogs averaged \$55.21 on a carcass basis, up from \$51.81 Dec. 29.

The U.S. pork cutout was \$79.01 per cwt. Jan. 6, down from \$81.08 Dec. 29.

Weekly estimated U.S. slaughter to Jan. 7 was 2.09 million, about

steady with the previous week. Last year's slaughter was 2.38 million.

In Canada, the Signature Five price was C\$136.98 per 100 kilograms Jan. 7 compared to \$136.28 Dec. 24. The price was \$62.13 on a per cwt. basis compared to \$61.82.

BISON RISE

The Canadian Bison Association said Grade A bulls in the desirable

weight range sold at prices up to C\$6.25-\$6.40 per pound hot hanging weight. Prices are supported by strong U.S. demand and the weak loonie. U.S. buyers are offering US\$4.60 or more with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$6-\$6.20. U.S. buyers are offering US\$4.40. Animals outside the desirable buyer specifications

may be discounted.

SHEEP MARKET STABLE

Ontario Stockyard reported that 1,160 sheep and lambs and 11 goats traded Jan. 2.

New crop lambs sold actively at pre-Christmas prices. All other lambs and goats sold steady. Sheep traded lower, also at pre-holiday prices.

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- NS Johnson Farm, Chauvin, AB



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ARTIFICIAL MEAT

Livestock sector can't ignore push for protein alternatives

Joy among Canadian livestock producers because of forecasts of rising global meat demand in coming decades as incomes rise could be limited as new competitors enter the field.

We are not talking about competition from South America or Russia but rather from the high tech food development kitchens of American corporations rooted in the disruptive technology mindset of Silicon Valley.

Artificial meat stories figured prominently in our recent innovation issue.

If the proponents are as successful as they hope, this development could shake agriculture to its core, affecting not only livestock producers but slashing the demand for oilseed meal, feedgrains and pasture and upsetting the animal health and supply industries, as well as meat packers.

Livestock producers have given little thought to competition from meat substitutes. Burgers with tofu patties or portobello mushrooms seemed a weak and dreary alternative, appealing only to vegetarians.

For the majority of mainstream meat eaters, nothing could compete with a juicy, flavourful burger or steak fresh off the barbecue.

However, a host of well-funded corporations are working hard to come up with plant-based faux meat with the superior taste and texture needed to compete head to head with the real thing. Their goal is for consumers to desire their product rather than just settle for it.

Other companies are engaged in even more esoteric science to grow meat in the lab, using stem cells from livestock. Their goal is real meat without having to raise and slaughter livestock.

Some of the proponents are full of bravado, such as Pat Brown, a biochemist who left the Stanford School of Medicine to found Impossible Foods, a high profile faux meat firm.

In interviews, he likens the meat sector to

a horse and buggy industry, doomed to be replaced by a new technology — "It's just a question of who takes it down and how soon."

Such boasting is hard to take seriously. Meat has been a mainstay of diets since the first humans learned to walk.

However, in this age of rapid technological innovation, disruption is everywhere. Truck and taxi drivers are threatened by Uber and self driving vehicles. Robots and computers with artificial intelligence are replacing assembly line and clerical workers.

And the merchants of meatless meat think they have a message that will resonate with consumers. They contend that animals are inefficient producers of meat, requiring vast quantities of water, land and fuel to produce a pound of meat while creating mountains of waste and billowing out climate-threatening methane.

Throw in the argument that their product will end the slaughter and suffering of billions of animals and you might win the support of millions of poorly informed consumers trying to do the right thing.

But will it succeed? Could artificial meat compete like margarine does with butter? Or would it be like what almond milk is to cow's milk? Or will it fail like new Coke.

Consumers are suspicious of technology applied to food. Would those who reject GMOs embrace meat made in the lab? What position would restaurant and grocery chains take?

We don't have the answers. We can only report the news and recommend that livestock producers think about the potential implications, vast as they are, and devise strategies to prove to consumers they have a natural, sustainable food whose taste can't be beat.

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

CRAIG'S VIEW



B.C. LIVESTOCK PROTECTION PROGRAM

I don't remember my parents talking about wolf problems around the kitchen table 30 years ago, but now I don't ever talk to people and it isn't a serious problem. The numbers have just exploded.

IAN MITCHELL
CATTLE PRODUCER IN BRITISH COLUMBIA'S
NORTH THOMPSON AREA, PAGE 24

TRADE UNDER TRUMP

Feds remind U.S. lawmakers of Canada's trade importance

CAPITAL LETTERS



KELSEY JOHNSON

The United States will soon have a new president and the world does not know what to expect.

These days it seems as though a single tweet can be enough to send eyes rolling and trigger sharp rebukes from the international community.

So far, Canada has stayed out of Donald Trump's line of fire. While the president-elect has repeatedly pointed his finger at Mexico, the North American Free Trade Agreement, the U.S. domestic and Japanese auto sector, he's professed his love for Canada on more

than one occasion.

Although Trump's stated policies of building a wall along the U.S. border with Mexico, tearing up NAFTA, deporting illegal workers and imposing a border tax on many items built outside the U.S. still appear to be his priorities, none have been tied to severing the U.S.'s relationship with Canada.

On NAFTA, experts are divided about what Trump's position might mean for Canada. Some argue Canada could benefit from a NAFTA renegotiation, insisting there are areas that need to be modernized. Others question how a renegotiation could happen without threatening sectors like Canada's supply management industry.

Still, Ottawa is not taking chances.

Canadian media outlets have reported some of the prime minister's top advisers have travelled to Washington to meet with Trump's transition team, including his son-in-law Jared Kushner, who is said to be a key player in Trump's inner

circle. The meetings were meant to avert a trade war with the U.S., Canada's largest trading partner.

Trump isn't the only American attracting Canadians' attention. In early January, the day the 115th U.S. congress was sworn in, Prime Minister Justin Trudeau and Canadian ambassador David MacNaughton released a two minute video reminding American politicians Canada is a key player in the U.S. economy.

"Together we've built an economic relationship that supports jobs in every congressional district. We're the largest international customer for goods and services made in the U.S.A.," Trudeau said in the video.

"And not only do we buy from you, but we're also part of the world's most advanced economy. American and Canadian businesses work closely together to develop and sell our products to the world."

In 2015, the U.S. traded about

US\$662.7 billion in goods and services with Canada, figures from the U.S. Trade Representative show. U.S. exports of agricultural products to Canada totalled \$24 billion in 2015, making Canada the largest export market for American agriculture goods.

Canadian Agriculture Minister Lawrence MacAulay doubled down on Canada's trade pitch in a key note address to the Legislative Agriculture Chairs Summit of the State Agriculture and Rural Leaders in Baton Rouge, Louisiana, Jan. 8. The agriculture industry, he stressed, is incredibly integrated, with Canadians and Americans making "great food together."

"The U.S. is our closest friend, partner and most important economic relationship. Working together to identify opportunities for our farmers offers them the best opportunity to succeed, grow our economies and create jobs," the minister said in an Agriculture Canada statement released after the speech.

MacAulay has opted to take a wait-and-see approach to the Trump presidency, promising to address challenges if and when they come.

"There's a new government in place. The American people have spoken. Let's just wait and see what develops before we jump to major conclusions," he told reporters after the election.

The agriculture minister isn't the only one waiting to see.

As of press time, Trump had not named his agriculture secretary — one of two vacancies left in his cabinet (Veteran's Affairs is the other gap).

The delay has U.S. agricultural groups nervous, while north of the border farmers and industry wait to see which direction Trump plans to take.

Either way, it's going to be one heck of a ride.

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

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CARBON TAX

Man's relationship with carbon polarizing

BY BILL WHITELAW

Centuries-old Indian fable tells of six blind men who each put their hands on different parts of an elephant.

One gets a tusk, the next the trunk, a third the tail, the fourth man an ear and so on.

Each is challenged to describe the elephant's apparent properties based on their perceptions (and pre-existing perspectives) as a result of that single sensory experience.

It's a tale of multiple truths and realities that devolve into conflict and disagreement as each man makes his case.

You can imagine the dialogue based on each person's experience with the elephant, given the disparate nature of those touch points. The story focuses on the power of individualized viewpoints without mediating mechanisms.

A contemporary Canadian version could be titled *Six Blind Men and a Carbon Atom*. The "blind men" in question: environmental non-governmental organizations (ENGOS), media, bureaucrats, industry, politicians and the public.

All are actors in the carbon drama being played out on our national stage. And all suffer some form of cognitive impairment when it comes to things carbon.

Each has a touch point on the proverbial carbon atom, with a view rooted deeply in a belief system. However, each is mostly at a loss about how best to constructively describe that view to their counterparts.

There is no mediating mecha-



We're making a hash of an important socio-economic and environmental debate that ought to be building the nation but isn't, says an energy industry expert. | FILE PHOTO

nism that complements or corroborates views of what the atom actually represents.

So there is no way to arrive at a view that the carbon atom is both a challenge and an opportunity best tackled collectively.

In some versions of the elephant fable, the debate over the "true nature" of the elephant and its meaning gets heated and adversarial.

Each man is committed to his version of reality. There's no room for anyone else's reality.

In other versions, rationality prevails. Through respectful dialogue, the six reconcile their views.

In yet other versions, all parties remain far from consensus — the moral being that discord results

from a failure to account for other points of view.

You can say pretty much the same of our carbon conversations in Canada. The debates are mostly acrimonious and adversarial, more defined by polarization than collaboration. And they typically fail to account for alternative realities and truths.

Provinces are embarking on different carbon strategies via their climate leadership initiatives, and each initiative has become politicized.

Ottawa said it will impose a carbon price structure on provinces that don't develop their own carbon pricing policies. So much for federal-provincial harmony.

Many ENGOS have vilified car-

bon as symbolic of the evil empire: the fossil fuel industry.

That industry is starting to respond but hasn't presented a reasonably unified front.

Mainstream media has generally made a mess of its opportunity to mediate on behalf of its diverse constituencies.

Meanwhile, a largely complacent public waits to figure out which carbon parade to follow.

As a country, we're making a hash of a critically important socio-economic and environmental debate that ought to be building the nation instead of dividing it.

We're all in the same carbon boat; our hands all touching the same atom. We all want the most pristine environment possible, but we also want a thriving economy. The two are not mutually exclusive.

But blindness in our Canadian context is just a frustrating form of carbon myopia: each hand on the atom understands it differently and expects different outcomes as part of their respective end games.

The elephant parable invites us to contemplate the consequences of not seeing truths and meanings outside our own belief systems. Failure will preclude meaningful progress toward a common set of truths.

Who knew an elephant and an atom had so much in common?

Bill Whitelaw is president and chief executive officer of June Warren-Nickle's Energy Group, a division of Glacier Media Inc. This article is distributed by Troy Media.

2016 NEWSMAKERS

WP's most read stories

EDITORIAL NOTEBOOK



BRIAN MACLEOD
EDITOR

Each year, we offer a look at the most popular stories at producer.com. It's interesting to see the eclectic mix of stories that pique readers' interest. From 2016, here is *The Western Producer's* Top 10 list.

10. "Diagnosing lumps and bumps." A column about cattle infections published in June by columnist John Campbell.

9. "Prairie farmers assessing their losses." Published in October, this story outlined the effects of the weather on the harvest. By late in the month, many Saskatchewan farmers had thousands of acres yet to harvest, but a generous November returned them to their fields.

8. "Is glyphosate really dangerous?" In March, University of Saskatchewan professor John Giesy took issue with the World Health Organization's conclusion that glyphosate probably causes cancer.

7. "Seeder's reach stretches 160 feet." Published in June 2014, this is the story (with video) that just keeps going. It's about the Multi Farming Systems seeder from Australia.

6. "Fatal farm accident reinforces need to watch for power lines." A tragic story published in June about the death of Carrot River Valley farmer Francis Rodier.

5. "Cattle bloat: early diagnosis, treatment is essential." A column by Alberta veterinarian Roy Lewis about the cause and treatment of chronic bloaters.

4. "Could India's 2016 monsoon disappoint again?" This one lit up our analytics when it was published in January, predicting that "western Canadian farmers are expected to plant more peas and lentils in 2016, based on intense Indian demand for those crops." They did indeed.

3. "116 bushel canola in Saskatchewan." Another story that remained popular throughout the year. It is about the winner of the DuPont Pioneer's 2015 Yield Challenge Contest, Florian Hagmann, who farms near Birch Hills, Sask.

2. "Bin fire destroys 1,600 bushels of canola." The photo and story published in December are about a 2,300-bu. hopper bin that contained 1,600 bushels of canola when it caught fire near Kelvington, Sask.

1. Our top story last year had more than twice as many page views as the second place story — with 109,499 views. Readers swamped producer.com as soon as we posted it. "Tisdale, Sask., farm sells for \$26.5 million." Published in September, the sale of Miner Creek Farm by producer Sam Rey was thought to be Western Canada's largest operating farm sale.

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PENCILLING OUT THE NUMBERS

Crop profitability hinges on assumptions

HURSH ON AG



KEVIN HURSH

Every crop's a winner and every crop's a loser and the best that you can hope for is to not lose your shirt. (Sung to the tune of *The Gambler*, with apologies to Kenny Rogers.)

Budgets for 2017 can show cropping options as winners or losers, depending upon the assumptions that are used.

Saskatchewan's agriculture ministry has posted a 2017 *Crop Planning Guide* on its website. I enjoy this sort of analysis and think it's useful to see the assumptions.

However, the real value comes from plugging in your own yields, prices and input costs.

As usual, Saskatchewan Agricul-

ture uses estimated crop yields that are 20 percent above Saskatchewan crop insurance five-year averages for each soil zone. Certified seed is assumed for all the crops. Fertilizer prices were gathered at the end of November and include urea (46-0-0) at \$413 a tonne and phosphorus (11-52-0) at \$616 a tonne.

A major deviation in assumptions from past years is in chemical costs. For 2017, the potential cost of managing the growing problem of herbicide resistance is part of the equation. As a result, herbicide costs are up significantly.

The herbicide cost for spring wheat is assumed to be \$61.92 an acre, while durum is \$37.70 an acre because more products are available for spring wheat. This affects the relative profitability of the two crops.

One of the highest assumed herbicide costs is on lentils at \$85.22 an acre. Despite this, large green lentils are the runaway winner for profitability in the brown soil zone based on an assumed price

of 45 cents a pound.

Red lentils have a higher assumed yield but a much lower assumed price of only 30 cents a lb. While their net return isn't as high as large green lentils, they still pencil out as one of the more profitable cropping options.

Of course, the financial picture will be much different if root rot destroys your lentil yield and/or quality. You have to take that risk into account when analyzing the numbers.

The *Crop Planning Guide* firmly establishes that the ABCs are still valid, as in "anything but cereals." When cash as well as fixed costs are included, many of the cereals, particularly wheat, winter wheat, feed barley and even malting barley, show negative returns.

Interestingly, soybeans come out as a more profitable option than canola in the analysis. In the dark brown soil zone, a soybean yield of 30.7 bushels per acre with a price of \$12.43 a bu. is used.

By comparison, the canola yield is 41.6 bu. per acre with an assumed

price of \$10.58.

When you subtract all the expenses, soybeans come out slightly better than canola. While soybean acreage may indeed rise in Saskatchewan this year, there won't be enough yield confidence for a wholesale switch.

Flax comes out with a much lower profitability than canola in the Saskatchewan Agriculture analysis, but the price assumption is only \$10.71 a bu. Based on the new crop price offerings I've seen, my price assumption would be higher.

The most profitable crop in the analysis is quinoa, but if too many people took that to heart and grew quinoa without a price contract, the profitability would not be good at all.

While every crop could be a winner or a loser, there are a lot of considerations behind the numbers you use for analysis and the confidence you can place in those numbers.

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

MEAT TRADE

China to keep spot as world's top meat buyer

While Canada's beef export volume was up 13 percent for 2016, the value only increased by 1.25 percent

BY BARBARA DUCKWORTH
CALGARY BUREAU

Global pork and beef production is expanding with China expected to absorb the added supplies, said Rabobank's *Global Outlook for Animal Protein in 2017*.

China is expected to remain the world's largest pork importer bringing in about 2.7 million tonnes from various sources. It is trying to build up its domestic production but will continue to look for reliable suppliers like Canada, United States, Mexico, Brazil and the European Union.

China's poultry imports will be

flat because its domestic production almost fills its needs, but beef imports are expected to climb with most going to middle and high income groups.

Canada has remained an active beef exporter, even though the domestic cow herd remains stable in size, said market analyst Brian Perillat of Canfax.

"We are growing our beef production. We are not making big changes at all," he said "In 2016, we increased beef production by 10 percent by bigger slaughter rates and bigger carcass weights."

Exports were up in volume at 322,000 tonnes for 2016. It marks a

13 percent improvement from the year before, but overall value only increased by 1.25 percent. About \$2.2 billion worth of beef was exported at the end of October when the last statistics were available.

"We should maintain a good export pace by the end of the year," he said.

For example, Canada exported 628 million pounds of beef to the U.S. in 2015 and 735 million lb. in 2016 according to the Steiner Consulting Group, which publishes the *Daily Livestock Report*.

The U.S. brought in more beef from Canada and Mexico because

of a shortfall from Australia. In 2015, about 1.25 billion lb. came from Australia, but due to drought and other buyers bidding aggressively, exports to the U.S. dropped to 770 million lb.

U.S. beef production grew by about five percent in 2016 and should increase by an additional 2.5 percent to 3.5 percent in 2017.

American pork production is also increasing and may be enough to encourage the opening of five new processing plants in the U.S. in 2017.

Expansion in beef and pork might encourage exports but the strong U.S. dollar could make them more

expensive in a world market.

Global poultry production is expected to shrink after three years of expansion. Most production growth is expected to come from the U.S., Brazil and China. American poultry supplies should grow another two to three percent in 2017 after five consecutive years of growth.

Brazil is expected to increase production of pork, beef and poultry by about five percent in 2017.

China, Hong Kong and Russia are Brazil's top three pork customers.

In 2015, Brazil sold 5,000 tonnes of pork to China, but in 2016 that increased to 69,000 tonnes and Rabobank forecasts that amount could increase to 100,000 tonnes in 2017.

Argentina is expanding beef production and is looking to boost exports to China, the European Union, Chile and Israel.

The EU has an ample supply of cattle and is looking at improving its export strategies. Its pork production declined by 1.5 percent but poultry is expected to grow by 1.5 percent, down from four to five percent annual growth in recent years.

Exports to southeastern Asia should remain strong, especially for halal-produced products.

Indian buffalo meat exports are finding good sales in Vietnam, Indonesia, Philippines, Thailand, Laos and Singapore.

Consumer interest in alternative protein is not yet considered a risk to the meat industry

Seafood consumption is expected to increase by about two percent globally. Aquaculture supplies more than half the seafood consumed in the world.

Farmed seafood like salmon and shrimp are expected to overtake the wild catch of species like tuna, Alaska pollock, Atlantic cod, mackerel and herring.

Rabobank considers currency volatility and technical barriers in the name of food safety to be the challenges of 2017.

Technical barriers are often unregulated requirements and as the world becomes more protectionist, these could continue to distort trade.

Other challenges in 2017 include the growing consumer resistance to the use of antimicrobials in livestock production, as well as questions about greenhouse gas emissions coming from the sector.

While it is still a small segment, there is growing interest in alternative proteins with most of the growth coming from soy-based proteins. The global market for alternatives is expected to reach more than five billion tonnes by 2020 but most of the offerings will be niche products.

"Taste, quality, price and appearance are not yet sufficiently distinguishing from meat to capture enduring mass market preference," said the report.

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CGC APPOINTMENT

Patti Miller to head grain commission

Canola council president has 'wealth of experience'

BY ROBERT ARNASON
BRANDON BUREAU

The president of the Canola Council of Canada will soon be chief commissioner of the Canadian Grain Commission.

Agriculture Minister Lawrence MacAulay announced last week that he has appointed Patti Miller to take over the reins at the CGC, beginning Feb. 13.

"Patti has a wealth of experience in the sector and her passion for agriculture will be of great benefit to the commission's work," MacAulay said in a statement.

The appointment is for a six-year term at the grain commission, which is the regulator of Canada's grain industry and responsible for the country's grain grading system.

Miller will be a permanent replacement for Elwin Hermanson, who stepped down last year.

Miller has served as president of the canola council since 2012. She has also worked for Agriculture Canada in Winnipeg, collaborating with the grain and oilseed



PATTI MILLER
NEW CANADIAN GRAIN COMMISSION
CHIEF COMMISSIONER

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WHO NEEDS HILLS? | Despite the cold weather in late December, the Friesen kids and dogs were still up for being pulled by an all-terrain vehicle to the slough to go sliding on the ice on their farm near McMahon, Sask. | PAULA FRIESEN PHOTO

ADVERTORIAL

Huge Variation Found in Air Bulk Metering Systems

The Secret is Out—Average Variation of 20% in Product Distribution

Seed and fertilizer metered into high velocity air streams and sent down distribution tubes to manifolds that split into separate, smaller tubes of varying length to deliver the product to ground openers on toolbars up to 90 feet wide. What could go wrong with that? Plenty, as farmers, agronomists and some air cart manufacturers are finding out.

"When we started running high-yield wheat trials with seeding rates up to 160 pounds per acre, we really started to see variations between openers. It was all over the map," says agronomist and farmer Steve Larocque at Three Hills, Alberta.

A few years ago, Larocque ran a basic tube-sock test on five different air distribution systems, using some of his customers' existing air drills. He zip-tied socks on one long and one short hose coming off the same manifold on the left wing, right wing and centre section (six socks in total). While not conducted with scientific rigour, the demonstration showed that the variance between hoses ranged from a low 29% on one drill to a high of 98% on the worst drill. Larocque says the worst drill was probably an outlier, and the high variation could have been reduced with some adjustments. The other three drills had variances of 33%, 41%, and 45%.

"Visually, that variance isn't easy to see in the field unless you are measuring plant stand densities across each row. I think that's why product variance hasn't been on people's radar," says Larocque. "I think it's high time for the industry to play catch-up and start matching the accuracy of distribution to the accuracy of their metering.

"If we truly want to elevate yields, increase standability and reduce maturity, I believe that air drills should be delivering that same amount of seed and fertilizer into each and every furrow."

At SeedMaster, Research Farm Manager Owen Kinch looked at different manifolds to see what kind of variation exists. He tested six different models of manifold towers from different manufacturers to see how product distribution varied from hose

to hose after it left the manifold. Overall, the average variation of all towers was 20%.

"Industry has known about this problem, but most haven't wanted to do much about it," says Kinch.

At PAMI, in Humboldt, Saskatchewan, Program Manager Nathan Gregg says the variance is caused by a multitude of factors, including manifold type, number of manifolds, hose length, hose curvature, and even the metering system. He isn't aware of any recent research that has measured variation over an entire metering and distribution system. However with the development of more accurate seed row blockage monitors, farmers are now seeing variation between sections and even down to individual seed rows.

"In the past it was hard to diagnose and so it was easy to ignore. I think farmers are now becoming more aware of the limitations of the systems," says Gregg.

Trent Meyer, Executive Vice President at SeedMaster, says SeedMaster has historically worked hard to reduce the variation on their bulk distribution system with the Nova™ air cart. As much as possible, distribution hoses are kept the same length, hose curvature is designed to allow product to flow smoothly around corners, metal pipe is used to reduce friction, and manifold design is aimed to provide the most uniform product splitting.

"We've worked to reduce the issue as much as possible, but we have seen very little from other manufacturers in this regard. They aren't doing their customers or the industry any favours," says Meyer.

For 2017, Meyer says SeedMaster is going one step further with their new Tunable Tower™ manifold system to further reduce variance. The tower features a centre-cone adjustment that allows product and airflow to be balanced for each run, reducing the deviation between lines. The Tunable Towers are integrated with the XeedSystem monitor to continuously display product flow for each run in real time to guide adjustment to balance product distribution.



"In limited testing we've found that industry manifolds have a variance of 20–23%. With the addition of Tunable Towers, we've been able to balance product distribution across the toolbar and get absolute variance down to as low as 10%. That's 5% below or 5% above the target rate," says Meyer.

For farmers who prefer to use an air cart for both seed and fertilizers, Meyer says the Nova air cart with Tunable Towers will set the new industry standard for bulk product metering accuracy. That will pay off in better agronomics: more uniform emergence, better access to crop nutrients, uniform maturity, less wasted seed and fertilizer, and improved yield. Research at Agriculture and Agri-Food Canada (AAFC) found that uniform plant stands increased canola yields by up to 32% at low-yielding sites and by up to 20% at high-yielding sites compared to non-uniform plant stands.

For the ultimate in seed and fertilizer distribution and placement, the new UltraPro™ II on-frame tank and distribution system from SeedMaster provides even more accurate seed row distribution of product with near seed singulation. SeedMaster research has shown the UltraPro metering system can reduce absolute variation to about 3% (1.5% about or below target rate). This metering variation can be accounted for by seed-size variation.

"The UltraPro has allowed farmers to cut canola seeding rates with confidence, and that saves them a lot on input costs. Cutting back just one pound per acre of canola seed can easily save them \$10 to \$13 per acre, while still achieving good stand establishment and maximum yield," says Meyer. "That's the value of reducing variance in seed and fertilizer distribution systems."

HEALTH CONCERNS

Menzies resigns as CropLife president

BY BRIAN CROSS
SASKATOON NEWSROOM

The top official at CropLife Canada has resigned because of unspecified health issues.

Ted Menzies, a former Conservative MP and cabinet member, has served as president and chief executive officer of CropLife since January 2014.

The organization announced Jan. 5 that Menzies will resign immediately due to a "serious health problem" identified in December.

CropLife, a lobby group that represents Canada's plant science industry, has already begun the search for a new president.

Pierre Petelle, CropLife's vice-president of chemistry, has been appointed acting president until a new leader is identified.

"Ted contributed a great deal to our organization and we will miss his insight and dedication to Canadian agriculture," chair Jay Bradshaw said in a news release.

Menzies, a former grain farmer, was elected as MP for the riding of MacLeod in 2004 and served as minister of state for finance from 2011-13. He left federal politics in November 2013.

Petelle has been with CropLife since 2008.

He also worked at the Pest Management Regulatory Agency and has several years of experience dealing with legislation and regulations that govern the plant science industry.

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THE YEAR AHEAD

Federal ag minister focuses on next policy round

The federal government knows agriculture is vital to the growing economy, says Lawrence MacAulay

THE WESTERN PRODUCER TALKED WITH FEDERAL AGRICULTURE MINISTER LAWRENCE MACAULAY ABOUT WHAT WILL BE IN STORE FOR THE INDUSTRY THIS YEAR. FOR SIMILAR STORIES FROM MANITOBA, SASKATCHEWAN AND ALBERTA, SEE PAGES 33-36.

BY KAREN BRIERE
REGINA BUREAU

Lawrence MacAulay laughs when asked when farmers can expect to see the promised grain transportation legislation that will impose reciprocal penalties on shippers and railways.

The federal agriculture minister is far too experienced and careful to give anything away.

However, it's clear he ranks the impending legislation as an accomplishment for the one-year-old government that was initially criticized for its lack of representation in the agricultural West.

"I think when you look at what took place, just on the review of the (Canada Transportation Act) and reciprocal penalties, I think that alone would be a signal to the agricultural sector in the country that this government understands," he

said in an interview.

Another example is the \$350 million transition funding offered to the dairy sector to modernize and prepare for new trading rules.

Then there were the announcements of new and re-opening markets for beef, pork and canola in countries such as Mexico, Argentina and China.

The resolution of the canola trade dispute with China, at least temporarily, over dockage was likely the most challenging issue of the year, MacAulay said.

"There was a lot of people, right up to the prime minister himself, (who) did a lot of work on that," he said of the agreement that main-

tained access to the \$2.6 billion Chinese market.

"It was tense up to that day here, understanding what it means."

MacAulay, who often reminds reporters that he was a Prince Edward Island potato farmer, says his ultimate job is to get more money into farmers' pockets.

"I have a great understanding of what that means," he said.

"Meeting farmers, I would say to them many times, you know I've been on your side of the table most of the time."

Still, the breadth of Canadian agriculture presents a steep learning curve. A little more than a year into his cabinet post, he credits

provincial governments, industry organizations and individual farmers across the country for helping him.

"Agriculture is big. I was solicitor general at one time and I thought that was, but this thing is hopping," he said.

"The need for protein worldwide is so big and we have so many great ranchers and farmers in this country and the opportunities are so big. It's a great time to be here and hopefully we're going to put the next policy framework together in agriculture and open up new markets."

Ministers from the provinces and territories will join MacAulay in



The need for protein worldwide is so big and we have so many great ranchers and farmers in this country and the opportunities are so big. It's a great time to be here and hopefully we're going to put the next policy framework together in agriculture and open up new markets.

LAWRENCE MACAULAY
FEDERAL AGRICULTURE MINISTER

Newfoundland and Labrador in July to sign the next policy framework.

MacAulay said changes to the existing programs are needed, but that's up to the provinces. Every jurisdiction gets a single vote.

He said he talks to individual ministers and believes they are mostly on the same page.

However, it may come down to the money. MacAulay said it would be inappropriate for him to say how much will be available for the 2018-23 program.

The current program is worth \$3 billion, funded 60 percent federally and 40 percent by the provinces.

MacAulay, who has been in Parliament for 28 years, said finances were tight when he arrived, are still tight and will likely be 28 years from now.

"But I think there's a clear understanding at the government of Canada and the provinces across the country what a vital asset agriculture is to the growing economy," he said.

MacAulay lists his priorities for 2017 as continuing to promote Canadian agricultural products with a view to opening more markets.

"It's a pretty exciting time to be here."

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CELL SERVICE

Manitoba farm show joins 21st century

Improved cellphone coverage at St. Jean Farm Days keeps participants connected while staying warm

BY ED WHITE
WINNIPEG BUREAU

ST. JEAN BAPTISTE, Man. — A tradition going all the way back to the birth of the cellphone age has died here, but few are crying about its loss.

Instead of finding a gaggle of farmers, businesspeople and reporters shivering in the frigid early January weather on the steps outside the Knights of Columbus hall, holding cellphones above their heads trying to get a signal, St. Jean Farm Days now finds digital addicts tapping away on screens inside the warm and cheery hall.

It's all due to a cellphone booster that the hall installed before this year's iteration of the show, which has changed the formerly dead zone into a wired-in location.

"It's just part of being connected," said Brunel Sabourin of Antara Agronomy, who is one of the chief organizers of St. Jean Farm Days.

Indeed, being well-connected for cellphone or wi-fi service is no longer seen as optional or an additional feature for a farm show or rural business. Instead, it is essen-

tial to remaining part of the modern economy.

During this year's show, many farmers and exhibitors from the trade show could be seen tapping out texts, checking email and updating websites inside the hall, while newspaper and radio reporters could stay inside the seminar room and live tweet the presentations.

A lot of exhibitors were asking for it, to be able to access the internet, to send out texts, receive calls and of course social media is a big driver these days.

BRUNEL SABOURIN
ANTARA AGRONOMY

In previous years, reporters would have to run outside the hall onto the main street of St. Jean Baptiste to send tweets, often having to hold their mobile phones above their heads in the quest for a single



Those attending St. Jean Farm Days in St. Jean Baptiste, Man., in January no longer have to stand outside in the cold looking for cellphone coverage, thanks to a recently added booster. | ED WHITE PHOTO

bar of service.

"A lot of exhibitors were asking for it, to be able to access the internet, to send out texts, receive calls, and of course, social media is a big driver these days," said Sabourin.

"A lot of people want to tweet out what they're doing."

Farmers and rural businesses have long complained about poor cellphone and internet access in many areas of Western Canada, but the issue has evolved from one of annoyance and irritation to one of necessity.

Many businesses and industries now operate with the assumption that everyone everywhere is connected, so being connected is something many farmers and businesses can't do without.

For example, many grain companies and brokers now send out flash offers by text, offering special

prices for limited amounts of crops that are immediately needed. The first customers to respond usually get the deal, while those who don't see the text or can't respond lose out.

The federal government has said it plans to make most of Canada internet-connected, something that has brought a lot of relief to digitally isolated people such as farmers.

The Bell takeover of MTS in Manitoba has also brought promises to wire the province better, with Bell saying rural areas will get better service in general. Specifically, it says Highway 75 from Winnipeg to the U.S. border at Emerson will soon see seamless service.

St. Jean is located on Highway 75, but its service is appalling.

St. Jean Farm Days has always

faced dodgy mobile access within its hall, but the situation has become worse in the last couple of years. Locals say that might have to do with a nearby grain facility being shut down because it had operated its own booster.

St. Jean Farm Days has always had a lot of local traditions attached to it, from the sight of the hard-working men and women in the kitchen preparing and serving the French Canadian pea soup that is a town specialty to the relaxed local chatter — often in French or low German — occurring in the trade show's busy aisles.

However, the tradition of standing outside in -29 C temperatures under ruthless January skies, holding aloft cellphones, appears to have died.

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ST. JEAN FARM DAYS

Soybean choice explodes for Manitoba farmers

BY ED WHITE
WINNIPEG BUREAU

ST. JEAN BAPTISTE, Man. — Manitoba soybeans have moved into version 2.0, but many growers are still so new to the newish crop that they haven't necessarily realized it yet.

Manitoba Agriculture farm production specialist Terry Buss told farmers here that he is often asked what soybean variety "is the best," and that is no longer a question that can be answered.

So few soybean varieties were fit for Manitoba a few years ago that most areas had only one or two safe varieties.

Now there can be dozens, similar to other crops.

"There are a lot of varieties and a lot of good ones," Buss said.

"A lot of growers (until recently) tended to be growing similar varieties in an area. One variety would have a huge market because there weren't too many choices."

He said it means farmers need to decide what attributes they most want in their soybeans, rather than looking for one simple default variety that will be best for them. All sorts of attributes and seed treatments are available, but no variety is going to contain everything. Farmers need to decide what they want and then research it.

"A seed is not just a seed," said Buss.

The evolution of soybeans in Manitoba has been stunning,

going from almost none less than 20 years ago to 1.6 million acres in 2016 to an expectation of more than two million acres in a few years.

That evolution has not only forced farmers to learn how to grow an unfamiliar crop, it has required the development of varieties that can deal with Manitoba's comparatively short growing season.

Most varieties were originally developed in the warmer, longer season of the U.S. Midwest, so pushing them up to the forest fringe has been a challenge for variety developers.

However, they have met that challenge much more easily than many expected with soybeans spreading up and out of the Red River Valley and onto the Great Plains.

Buss said he almost drove his truck into the ditch one day when driving at the upper extreme of the Red River Valley area near Beausejour. It was August and a field of soybean plants was browning and dropping its leaves. He thought there was something wrong with the crop, but the only problem with it was that it had such a short maturity that it was already turning.

"We actually have varieties that mature that early now," said Buss.

Farmers need to understand that they now have many more choices when choosing to grow soybeans, so picking a variety is no longer such an easy decision.

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AGRONOMY

Interest surges in cover crops

U.S. farmers use 'catch crops' to minimize nitrogen and phosphorus loss

BY ROBERT ARNASON
BRANDON BUREAU

It's become difficult to avoid cover crops.

The crops, which improve soil health, help boost the yields of subsequent cash crops or provide forage for livestock, are constantly in the agricultural media, and many farm conferences have them on the agenda.

Many farmers remain skeptical of the hype, but the innovation has become a normal farming practice in the United States, says a University of Manitoba expert.

"We're talking about cover crops this morning because cover crops are now ... part of conventional agriculture in North America ... because of the widespread adoption of leading farmers and the response from ... policy (makers), mostly in the U.S., to promote cover crops as a practice," said Yvonne Lawley, a U of M plant scientist who spoke at the Manitoba Agronomists Conference in December.

Describing cover crops as conventional might be a stretch, but they are an extremely hot topic right now, particularly south of the border.

"We've never seen anything taken up as rapidly as using cover crops," Barry Fisher of the U.S. Department of Agriculture's Natural Resources Conservation Service told the *New York Times*.

U.S. data verifies Fisher's comment:

- A survey by the USDA's Sustainable Agriculture Research and Education (SARE) division shows

that producers who use cover crops doubled acres on their farms from 2011-15.

- The typical adopter in the U.S. last year was expected to seed 339 acres of cover crops.
- Iowa farmers seeded cover crops on 472,000 acres last year, which was a 35 percent increase from 2015, according to the Iowa Farm Bureau.
- U.S. Census of Agriculture figures show that American farmers seeded 10 million acres of cover crops in 2012. SARE has set a goal of 20 million acres by 2020. Cover crops in Canada and the

(We're) taking those wet soils and doing something with them, using (cover) crops to manage and bring them back into production.

YVONNE LAWLEY
PLANT SCIENTIST

northern U.S. Plains, mainly vetches, radishes and peas, are mostly used for soil remediation or extending the livestock grazing season.

However, they serve a different purpose in the U.S. Midwest, where many producers are seeding "catch crops" to minimize nitrogen and phosphorus loss.

"I use the term catch crop because the purpose of that cover crop is really to manage nutrients that might be leaching through the soil," Lawley said.

"These catch crops are for areas that might not be frozen all winter long.... This is really what's driving changes in the landscape ... policies promoting cover crops."

Nutrient leaching is not normally a concern during a prairie winter, but there are numerous uses for cover crops in Western Canada.

Lawley said rehabilitating wet areas in a field is a good place to start.

"I think the biggest window (of opportunity) is where things go wrong," said Lawley, who is from the U.S. and has been researching cover crops for several years.

"We've had a lot of areas, in a lot of years, with wet soils. (We're) taking those wet soils and doing something with them, using (cover) crops to manage and bring them back into production."

Another opportunity is planting a cover crop following the harvest of winter wheat or fall rye to improve soil fertility for subsequent crops.

Many presentations and discussions focus on the ideal cover crop cocktail, or combination of five, 10 or 20 plant species in a mixture.

Lawley said the emphasis on cocktails is probably unnecessary.

"I think, starting out, picking two, three or four species and putting them together ... is very practical... and I think you're going to see the same kind of impacts (benefits)," she said.

"If we've got some leftover soybean seed around, that can be as useful as some of these more exotic (species), like cowpeas."

Instead of focusing on what they are seeding, growers should



Cover crops, such as this one of paired row fall rye and radish seeded between corn, are becoming increasingly common in the United States, and researchers hope to see the same interest in Canada.

| MARISOL BERTI PHOTO

understand why they are using a cover crop.

Lawley said the reasons include fixing nitrogen, providing food for soil micro-organisms and alleviating soil compaction or soil salinity.

Ducks Unlimited Canada has been promoting cover crops, and several organization representatives listened to Lawley's presentation in Winnipeg.

Michael Thiele, a Ducks Unlimited grazing club co-ordinator, said a small number of Manitoba producers have adopted the practice, but momentum is building.

"It's growing quickly," he said.

"Mainly the cattle guys. They've sort of caught on to it quicker."

Lawley hopes the trend continues, but one critical piece is missing in Western Canada. The Prairies may need a new organization that supports research and promotes cover crop use.

"We have a fairly well established network of funding research for commodity specific (crops)," Lawley said.

"What we're struggling with here is who funds soil management research."

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John Nowoselsky, manager of the Termuende Research Ranch near Lanigan, Sask., shows producers clover silage during a field day at the facility in the spring of 1983. | FILE PHOTO

25 YEARS AGO

U.S. challenges CWB wheat export practices

FROM THE ARCHIVES



BRUCE DYCK

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

75 YEARS AGO: JAN. 8, 1942

Efforts continued at a feverish pace in the Saskatchewan countryside as the Jan. 10 deadline loomed for signing petitions that demanded a better deal for prairie farmers from the dominion government.

The most recent count put the number of collected signatures at 140,000, and plans were now being made to send a delegation to Ottawa to deliver the petitions.

1941 was declared an emergency year in Alberta under the Prairie Farm Assistance Act.

The move meant that \$6 million in payments would immediately be made to the province's farmers.

50 YEARS AGO: JAN. 13, 1967

Canadian National Railway applied to the Board of Transport Commissioners for permission to abandon 304 kilometres of branch lines in Saskatchewan.

The federal government declared Jan. 11 as a day to honour Sir John A. Macdonald, Canada's first prime minister. However, the proclamation did not make the day a public holiday.

Instead, it stipulated that it was to be marked only in 1967. That decision did not sit well with opposition leader John Diefenbaker, who called it "a half-hearted gesture on the part of the government."

25 YEARS AGO: JAN. 9, 1992

The U.S. government considered the Canadian Wheat Board's durum pool deficit to be an illegal subsidy and was contemplating a free trade agreement challenge to Canadian wheat exporting practices.

"It's hardly a position that a Cairns group free trading country should be in," Nelson Denlinger of U.S. Wheat Associates said sarcastically.

Lenders in Saskatchewan agreed to not foreclose on farmland for the next three months while discussions on farm debt solutions were underway. Premier Roy Romanow praised the lenders for "a totally co-operative and voluntary action."

10 YEARS AGO: JAN. 11, 2007

The Canadian government said it would challenge U.S. corn subsidies, export credits and total spending on agricultural support programs at the World Trade Organization. Ottawa said U.S. government payments to corn growers totaled US\$18 billion over the previous two marketing years.

Strong crop prices were expected to reduce the number of summer-fallow acres in 2007. Glenn Lennox, a wheat analyst with Agriculture Canada, expected summer-fallow acres to fall to a record low 8.5 million, down from the previous 10-year average of 11.36 million acres.

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FARMLIVING

TASTY TIPS

Check out excerpts of recipes and household tips from the latest United Farmers of Alberta cookbook, *Meals in the Field*. | **Page 20**



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SASKATCHEWAN HEALTH

Will amalgamation affect rural health?

The Saskatchewan government's move to consolidate health-care services have rural residents and communities on edge

BY KAREN BRIERE

REGINA BUREAU

There are still many unknowns as Saskatchewan moves to a single provincial health authority from 12 regions later this year, including what financial savings there might be and how rural residents might be affected.

The provincial government announced its decision last week, saying it had accepted recommendations from a three-member panel to better co-ordinate health services across the province.

This includes consolidating clinical services such as laboratory and diagnostic imaging, and the planning, dispatch and delivery of Emergency Medical Services (EMS).

A single board of directors will be in place by fall, said Health Minister Jim Reiter, but further changes will take longer.

"We want to do this quickly but it's also important that we get it right," he said.

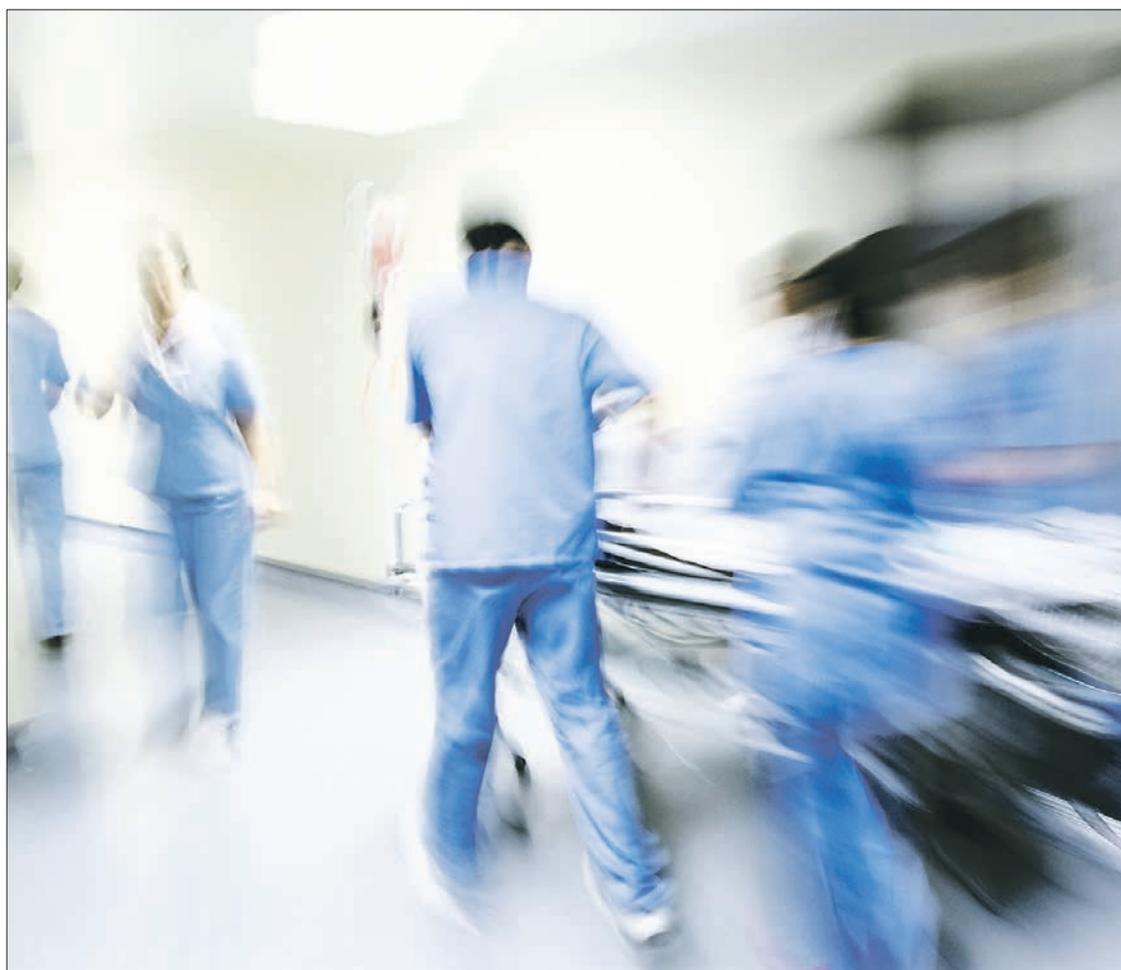
Greg Ottenbreit, minister responsible for rural and remote health, said community advisory networks already in use in some regions and recommended by the panel will help maintain local links.

The panel noted that rural care and facilities must be maintained.

"We can't lose sight of rural health care," Ottenbreit said.

"We have to keep that capacity in rural areas because if we start minimizing a lot of the rural services, it ends up exacerbating problems in the tertiary centres and the regional centres."

Panel member Dr. Dennis Kendel said most of the change would be in



Saskatchewan's decision to consolidate its 12 health regions into one has rural residents questioning whether services will deteriorate and if they will lose a voice in decision-making. | GETTY PHOTO

administration rather than front-line care.

"We believe one single provincial health authority focused on seamless care delivery and integration of services will improve the patient experience," he said. "At the same

time, the provincial health authority must maintain close ties with local communities, and management capacity must still exist where services are delivered."

Health worker unions largely lined up against the government's

decision.

"We are of the view that this move has the potential to negatively impact both patient care and the provision of health-care services," said Barbara Cape, president of SEIU West.

CUPE, the largest health-care union in the province at about 13,000 workers, said it worried about impacts on patients.

"We are concerned that one central super board will be less responsive and harder to navigate for patients and communities," said Gordon Campbell, president of CUPE's Health Care Council.

"Will this lead to reduced services and a loss of decision-making in communities, especially in rural communities?"

But Reiter said if the transition is done properly, the average person won't notice any change.

He couldn't say exactly how much money would be saved through consolidating administration.

The government said early estimates show savings of \$10 to \$20 million in 2018-19. It expects to save by consolidating things like accounting, information services and legal departments.

However, there will also be severance costs to workers who lose their jobs.

NDP health critic Danielle Chartier said consolidation is just code for cuts.

"If this government was really concerned about front-line care, they wouldn't be spending money on expensive restructuring and creating chaos, which is exactly what amalgamation does," she said.

NDP governments amalgamated the system in 1992, establishing 32 districts and closing more than 50 rural hospitals, and then again in 2002 when the current 12 regions were implemented.

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SASKATCHEWAN SCHOOL BOARDS

Panel to take three governance options, concerns to gov't

BY KAREN BRIERE

REGINA BUREAU

The Saskatchewan School Boards Association says a report suggesting three possible options for a governance structure has identified concerns that boards have been hearing for some time.

Dr. Shawn Davidson, chair of the Prairie South school division, said people worry about further amalgamation and the loss of local voice in the education system.

"Many of us that represent rural boards ... we lived amalgamation once 10 years ago. We know how complex it is. We know how much work goes into it," Davidson said.

He said he was encouraged that

the report done by Dan Perrins, a longtime civil servant, noted unanimous support for no further amalgamation.

Still, that is one of the options Perrins presented in his report delivered to Saskatchewan education minister Don Morgan last month.

Perrins' options include consolidating the existing 18 public school boards into a single board that would manage all 606 public schools, a regional model of four schools, a regional model of four schools, and a divisional model similar to what exists now but perhaps fewer of them to reflect changing demographics and geography.

Saskatchewan already has the lowest number of boards in West-

ern Canada, but also has the lowest number of students at about 176,300.

The report noted that although Perrins didn't conduct formal consultations, he did meet with 32 stakeholders, including boards, teachers and the general public.

One option is to consolidate 18 public school boards into one

He heard unanimous support to maintain elected boards as the most effective way for local voices to be heard, and for no further amalgamation.

The boards were last amalgamated in 2006 and in addition to the 18 public boards, there are eight

separate Roman Catholic divisions, one separate Protestant division and one francophone division.

Davidson said elected, local boards must be maintained, particularly in rural areas where the school is often the heart of the community.

"Whether you do full amalgamation or redraw boundaries or any of those sorts of things, you can't ever forget the human element that goes along with it."

Davidson said energy should be focused on students, not administration. After the most recent amal-

gamations, it took several years for the focus to be put back on students, he said.

"Absolutely we want to keep it there," he said.

A six-member panel is now formally consulting on the options and is to report back to the government by the end of January.

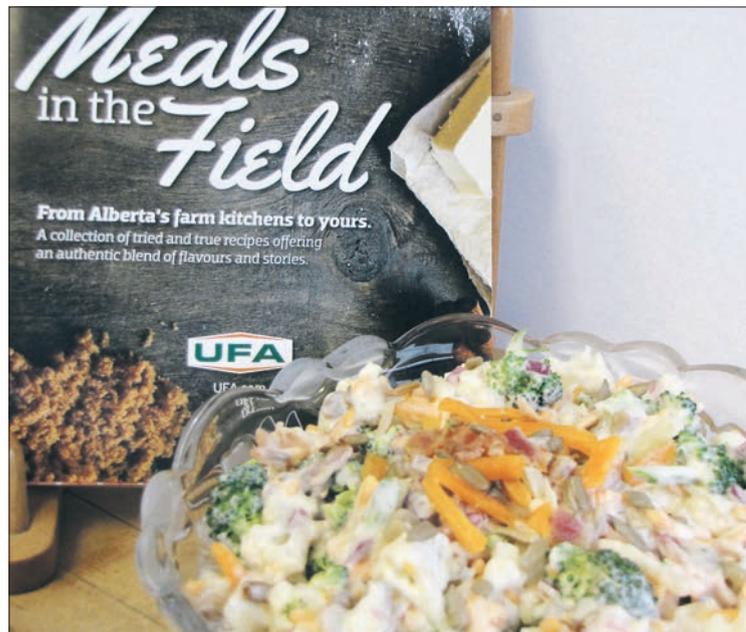
The public can find the report and participate in the consultation online at www.saskatchewan.ca/government/public-consultations/share-your-thoughts-on-the-k-12-education-governance-review.

Submissions are due by Jan. 23 and all responses will be posted online after the process ends.

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UNITED FARMERS OF ALBERTA

Meals in the Field: cookbook shares farm recipes, tips



Broccoli and cauliflower salad can be assembled up to a day ahead, refrigerated and ready to transport to the field or a family gathering. Mix just before serving. | BETTY ANN DEOBALD PHOTOS

TEAM RESOURCES



BETTY ANN DEOBALD, BSHEC

Feeding busy farm families and farm workers has always been an essential part of a family farming operation. Preparing a variety of healthy foods for the early mornings, late night shifts and all day field work can be a challenge.

The United Farmers of Alberta recognizes that. Since the first edition of the *United Farm Women of Alberta's Cookbook* in 1928, and the nine subsequent editions, there has been a need to share hearty farm-style recipes and tips.

Continuing with this tradition, UFA has just released its latest cookbook.

Meals in the Field features recipes from the original cookbooks, reflecting the heritage and traditions of early settler communities in Alberta, along with recipes submitted during the summer of 2016 by UFA members, customers, agents and employees. The result is classic recipes that farm families are known for serving.

"Telling the story of agriculture and sharing its history is more important than ever as we talk about raising the profile and educating consumers on where their food comes from," said UFA chair Kevin Hoppins.

Readers' tips

The original cookbooks offered household hints like the following.

Rub dry mustard on your hands after peeling onions and wash them in the ordinary way to remove odour. — Mrs. L. Leonhardt, Drumheller East, 1956 *Farm Women's Union of Alberta Cookbook*

If you have trouble with your cakes sticking, try dusting the pans lightly with flour after they are greased and see how easily the cake comes out. — 1956 *FWUA Cookbook*.

The following are contemporary hints from *Meals in the Field*.

I have a digital spreadsheet made up of 40 different meal combinations to eliminate repetition and add variety to the menus. I like simple menus that can be made in a short time. — Karilynn Marshall, Marshall Farms, Bowden, Alta.

If there are enough cucumbers in the garden, serve them on the side, peeled and cut lengthwise. Don't forget to bring the salt shaker. The harvesters have likely been sweating and need to replenish their sodium.

Serve homemade brown bread, already sliced and buttered with the meal. Place the bread slices together like a sandwich and put back into a bread bag for easy transport. — Phyllis Peters, Carstairs, Alta.

Hot porridge has been a favourite food for generations of farm families as an economical, hot



There is no need to wait for breakfast because this crock pot version of porridge is hot, hearty and ready whenever chores are done. Threshing crew crock pot porridge has a great combination of steel cut oats, pot barley and pumpkin.

and satisfying breakfast.

It is a healthy, filling and easy way to have a hot breakfast. The best part is it can be eaten in shifts for those leaving early and those who have spent the night in the field or barn. — Marilyn Haugen of Townview Farms Ltd., Lougheed, Alta.

THRESHING CREW CROCK POT PORRIDGE

2 c.	milk (almond, dairy or evaporated)	500 mL
2 c.	puree (apple sauce or pumpkin)	500 mL
1 1/4 c.	steel cut oats	310 mL
	or 1 c. steel cut oats	250 mL
1/4 c.	pot barley	60 mL
1 1/2 tsp.	vanilla	7 mL
1 1/2 tsp.	cinnamon	7 mL
1 1/2 tsp.	spice (apple pie spice or pumpkin pie spice)	7 mL
	pinch of salt	
	sweetener (optional)	
	Stevia, maple syrup, honey	
Toppers:		
	chopped nuts, raisins, dried cranberries	

Put water in the ceramic part of the crock pot until one-third full.

Take a Pyrex bowl (medium) and spray inside with non-stick spray. Add porridge ingredients and mix well.

Place bowl in the crock pot water bath and cover all with the lid.

Cook overnight on low setting. The water bath extends cooking time to a full eight hours. Clean up is a breeze as long as you remember to spray the bowl with non-stick spray.

Stir porridge in morning just before serving. Each person can add toppers according to individual tastes. It will keep in the refrigerator for up to five days.

For best results, do not substitute quick cooking oats for steel cut oats.

BROCCOLI AND CAULIFLOWER SALAD

Tamona Pickles of Pickles Ag Ventures Ltd. of Castor, Alta., feeds a big harvest crew. This recipe is from her grandma and is served at every family function.

It can be made ahead and is a great side dish.

UNITED FARMERS OF ALBERTA

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Source: www.UFA.com.

1	cauliflower, chopped	
1	broccoli, chopped	
1 c.	mayonnaise	250 mL
1	red onion, chopped	
1/4 c.	fried bacon, crumbled	60 mL
1 c.	cheddar cheese, shredded	250 mL
1/2 c.	sunflower seeds, sprinkle	125 mL
1/2 c.	sugar, sprinkle	125 mL

Put in a bowl in this exact order, cover tight with stretch wrap. Refrigerate overnight or for several hours. Stir and serve.

The *Meals in the Field* cookbook is \$20 and available from all UFA petroleum agencies, UFA Farm and Ranch Supply stores and from UFA Corporate Communications, 1-877-258-4500.

READER REQUEST

A reader was looking for the publication date for Mrs. Leuf's chocolate cake in *The Western Producer*. Thanks to Naden Hewko of Macklin, Sask., who provided us with the answer.

She has a looseleaf binder of newspaper clippings that her daughter started when she was in school.

Hewko found the recipe in the May 11, 1967, issue, and called it the "best chocolate cake."

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



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PSYCHOTHERAPY TREATMENT

Hoarder needs professional help

HEALTH CLINIC



CLARE ROWSON, MD

Q: I visited an elderly woman in town yesterday. The exterior of the home showed no clues but inside, it was obvious she was a hoarder. There were piles of books, papers, plastic, etc. stacked everywhere, even the bathroom, with just enough space for a walkway. My concern was for her personal safety as an old woman living alone. The place is a fire trap. If she was my mother/grandmother, I'd want to help her. What do you suggest? What causes people to behave like this?

A: Hoarding disorder is a persistent difficulty with discarding or parting with possessions because of a perceived need to save them.

A person with hoarding disorder experiences great anxiety and distress at the thought of getting rid of the items and will actively resist any attempt by someone else who tries to tidy up or remove stuff.

Excessive accumulation of stuff, regardless of actual value, inevitably occurs. Quite often these items

are old newspapers, plastic containers and cardboard boxes, which most people would classify as garbage. They may also be compulsive shoppers who buy large numbers of the same item just because they are on sale.

Hoarding often creates such cramped living conditions that homes may be filled to capacity, with only narrow pathways winding through stacks of clutter to the bed. This constitutes a fire hazard and may also attract mice, rats and insects.

A related condition applies to those who collect animals. The classic cat ladies, for example, may keep dozens or hundreds of pets in unsanitary conditions because although they love them, they can't care for them properly.

I even came across someone in the neighbourhood who collected farm animals in that way, mostly sheep and goats, but was unable to pay for sufficient feed and there was not nearly enough grazing land.

The animals were eventually removed by the SPCA after the woman was admitted to the psychiatric hospital.

Risk factors for hoarding disorder are: living alone and being unmarried; having had a deprived childhood; having a family history of hoarding and growing up in a cluttered home.

Treatment may involve psychotherapy such as cognitive behav-

ioral therapy, with or without the aid of medications. Underlying psychiatric conditions need to be addressed.

The SSRI types of antidepressants are often used because they can help with OCD as well as depression. Trying to get into the home to clean it can pose major difficulties because the hoarder may barricade themselves inside or become violent.

Hospital admission is sometimes necessary, and then the house can be cleared of clutter while they are away.

The best plan is to try to get the person to seek professional help and to agree to throw things out of their own free will.

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

WINTER FUN



Cold weather doesn't stop sleigh rides at the Lionel Story Farm near Netherhill, Sask. After a ride in an old school caboose, winter enthusiasts warmed up around a fire and were treated to a weiner roast. | PAULA LARSEN PHOTO

SOCIAL RELATIONSHIPS

Son bullies schoolmates

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: My husband and I were asked to meet with the principal of the school to talk about the behaviour of our second oldest boy. Apparently he has been a bully, picking on the smallest and weakest kids in Grade 8 and seems to take great delight in embarrassing them in front of the other kids.

All of this is new to us. We thought we were raising our boys to be caring and sensitive people, to support and encourage others and/or to accept those who were not quite as affluent as our boys are. I guess that we were wrong. The bullying has to stop but saying no to bullying seems to be insufficient. What can we do to not only right this wrong but to ensure that our son does not get caught in this again?

A: The fix-it package for bullying has more than just saying no to bullying in its arsenal of goods. The question for you is if bullying is wrong, then why would he continue to do it? What is in it for him?

If your son is bullying other children just for the sake of it, and not because he is trying to avenge bullying that disrupted his life in years past, you can bet that he is playing

to some social dynamic.

He is getting social acceptance from his classmates that he fears he will not otherwise get. The target is not his victim but his friends. He wants to be accepted by them and he sees his power over his victims as a route to them.

To best help your son, review with him other options for making friends and achieving social acceptance. The options may not bring the fast and furious response that he is getting from being the bully but the options lead to commitments that people make to each other.

He can sit in the dressing room after a hockey game and razz the smaller and less effective teammate who was on the ice when the other team scored the game winning goal and maybe the other guys in the room will laugh.

On the other hand, he can sit in the dressing room and listen to and support that same player.

He will not get the explosion of social approval from his teammates but he will increase the chances of making a lifelong friend, and one who will be there for him one day.

Successful businesspeople, politicians and high school social success stories all have one thing in common. They know how to listen.

Teach your son to do the same and then watch that bully part of him evaporate in the aura of real and genuine popularity.

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

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AG ENTREPRENEURS

Tap available resources for value-added ideas

BY KAREN MORRISON
SASKATOON NEWSROOM

If you don't have what it takes to turn oatmeal into smoothies, find someone who does.

Godwin Pon of Saskatchewan Agriculture's value-added unit detailed the resources available to fledgling businesses during the Saskatchewan Young Ag Entrepreneurs conference in Saskatoon Jan. 5.

He suggested seeking help from his unit, which can advise on resources and opportunities and recommend a path to take to move a product from the farm to the store.

That includes tweaking products and developing technologies to produce them with help from organizations such as the Saskatchewan Food Industry Development Centre and POS Bio-Sciences.

The Saskatchewan Trade and Export Partnership, National



GODWIN PON
SASKATCHEWAN AGRICULTURE

Research Council and Ag-West Bio are other resources that can move the product along the chain.

Pon said start-up companies face many challenges.

"It's not just one or two pitfalls but a host of them," he said.

They include the capital needed to advance an idea to commercialization and management capabilities required to run a business.

"The management experience

you need to run the proverbial lemonade stand is very different than having 10 employees and scaling up to 30, 50 or 100."

Pon said Saskatchewan is well positioned to take advantage of value-added opportunities because of its land base, diverse crops and population growth. He also said consumers want to know where their food comes from and are concerned about global food security.

The Saskatchewan company Oatdeal will take its oat-based smoothies to CBC's *Dragon Den* this season.

Other entrepreneurs are making beer from lentils, using protein extracted from peas in baby formula and pet food and selling cold-pressed flax and canola.

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SEE NEXT WEEK FOR MORE COVERAGE



Edwin Woodrow's skills as a butcher came in handy in the early 1940s, providing members of the beef ring with fresh cuts of meat, including pork and lamb. | FILE PHOTO

LOOKING BACK

Beef ring provided fresh meat before days of refrigeration

BY MARIA JOHNSON
FREELANCE WRITER

EDWIN PIERSON WOODROW
ALBERTA BUTCHER

LACOMBE, Alta. — Edwin Pierson Woodrow travelled west in 1907 to work on harvesting crews but found his butchering skills helped supply families with much needed meat.

He was among the many farm workers who boarded Canadian Pacific Railway trains in Eastern Canada in the late 19th and early 20th centuries. Before the widespread use of the combine harvester and the onset of the Great Depression of 1929, it was manual labour that ensured millions of acres of crops were brought in during a short period of time.

Woodrow, 22, of Woodstock, Ont., initially travelled with some family members.

"He came to the Angus Ridge district near Wetaskiwin and began his lifelong desire to be a pioneer of the West," said son Howard Woodrow, 76, who continues to live on land his father farmed east of Lacombe, Alta.

"On his first trip west, the local farmers discovered that E.P., as he became to be known, was brought up as a livestock butcher. This progressed to the idea of a beef ring."

When Woodrow returned for the harvest in 1908, a small slaughterhouse had been built to allow him to split his time between jobs as butcher and farm labourer.

Shares of meat, the hide, money or a combination of these were his compensation.

The beef ring consisted of as many as two dozen farm families. Each family would supply an ani-

mal weekly over the summer. The animal was slaughtered, processed and divided among those in the ring and either delivered or picked up at the slaughterhouse.

The meat sometimes included lamb and pork as well as beef. The farmer who supplied the animal would get the heart if he wanted it. Families received cotton bags to wrap and store their share, with records kept to ensure equal distribution.

Electricity was scarce and refrigeration non-existent until the late 1940s so the meat was kept cool in well pits or ice houses. The meat would be wrapped and lowered about three metres into a well where it would keep for at least a week.

Some people had ice houses, which were small buildings filled with river or lake ice in winter. The harvested ice was insulated with thick layers of sawdust or straw and would often last into late summer.

Howard said his father, a member of the Alberta Wheat Pool, remained involved with the beef ring, which is believed to be one of the first in the area, until he moved to his own homestead at Monitor, Alta., in 1917.

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FMC



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PLANTS



ABOVE: Jarvis and Emily Blushke sit in front of their British-style fireplace on their farm near Langham, Sask. Jarvis runs a mixed operation but his passion is producing and selling saskatoon plants. | SEAN PRATT PHOTO

RIGHT: Customers pick fruit at Blue Sky Berry Farm near Langham, Sask. | JARVIS BLUSHKE PHOTOS

ON THE FARM

Saskatoon grower the root of industry expansion

Grower uses unique method to make hard-to-root plants perform and sells 40,000 rooted cuttings annually

BY SEAN PRATT
SASKATOON NEWSROOM

LANGHAM, Sask. — Farming puts food on the table for Jarvis Blushke but it is his side business that feeds his soul.

“Jarvis has always had a passion for saskatoons since he was a boy with his mother,” said his wife, Emily.

“Some people go skiing and some people go to the cabin every week and some people do all sorts of things with their time and their money and Jarvis does saskatoons and always has.”

The mixed farm Jarvis grew up on and now owns backs the North Saskatchewan River. His mother would take him down there to dig up saskatoon plants and move them to the farm.

Jarvis eventually began developing his own varieties, which he put through trials at the University of Saskatchewan. One variety he

developed called JB30 scored top marks for all the desirable attributes.

“That gave him a bit of an edge in the industry,” said Emily.

She was born in the Langham area, spent her formative and early adult years in England and then returned to Langham after marrying Jarvis.

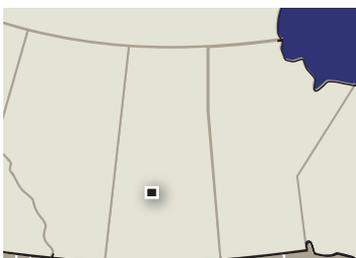
The Blushkes pay their bills with the revenue they generate from farming 2,000 acres of conventional and organic crops and raising 60 head of all natural beef cattle.

But it is Blue Sky Berry Farm, the 15 acres of land containing 15,000 saskatoon plants, that is Jarvis's real passion.

“If you can do something in your life that you're interested in, you'll always do a lot better and hopefully succeed in it,” he said.

Jarvis believes he is the only person in Canada producing saskatoon plants from etiolated cuttings,

ON THE FARM



JARVIS & EMILY BLUSHKE
Langham, Sask..

which means they were grown without light.

“It's just a method of getting harder-to-root species to do so,” he said.

The saskatoon industry got its start by people growing seedlings but that produces plants with uneven heights. Jarvis said cuttings are the way to go.

“If you plant a cloned plant, your hedgerow starts off and ends

exactly the same and the fruit ripens the same,” he said.

Jarvis entered the industry with a small U-pick operation but that business soon became saturated and was taken over by the big players.

Emily helped out with the business but is no longer actively involved.

“My role is much more just being a support to Jarvis and encouraging him to stick with it,” she said.

Jarvis decided it would be better to sell the plants rather than the berries. The farm annually produces an average of 40,000 rooted cuttings that become plants that are sold at various stages of development.

His target customer is commercial businesses that want to start up or expand their orchards.

Emily has a different clientele in mind. She likes selling two or three plants to young acreage owners.

“People are interested in having

them as part of a living hedge and that interests me especially,” she said.

Selling a few plants at a time makes Jarvis cringe. He prefers selling thousands of cuttings to large orchards in Canada and the United States. They are even getting some overseas interest in the plants.

Foodies like them because they are healthy and come from a native plant.

Jarvis has contemplated retiring from the business but the timing isn't right.

“All of the sudden, there's some bigger things happening. That's not really when you want to pull out,” he said.

Emily doesn't think his hesitancy has anything to do with what's happening in the industry.

“I wouldn't see Jarvis ever retiring. He enjoys what he does,” she said.

sean.pratt@producer.com

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WILDLIFE PREDATION

B.C. Livestock Protection Program praised



South Kamloops rancher Gillian Watt says her llama and Akbash guard dog help protect her sheep from coyotes. | TOM WALKER PHOTO

BY TOM WALKER
FREELANCE WRITER

KAMLOOPS, B.C. — The Livestock Protection Program that the British Columbia Cattlemen's Association launched last spring has the support of the province's ranchers.

"It's a good program and a necessity," said Ian Mitchell, who ranches in the North Thompson area.

"I don't remember my parents talking about wolf problems around the kitchen table 30 years ago, but now I don't ever talk to people and it isn't a serious problem. The numbers have just exploded."

The LPP provides verification, mitigation and compensation services to cattle, sheep and dairy producers for injury, harassment or death loss caused by wolves and coyotes.

Annual funding of \$250,000 from B.C.'s forests, lands and natural resources ministry covers the three-year program's co-ordinator and the services of trained wildlife specialists to carry out the verification and mitigation work.

The BCCA administers the program.

Mitchell said he lost three cows and a calf this fall.

The LPP program starts with a call to the 24-hour Livestock Protection hotline, where a file is started and the program co-ordinator is notified.

The aim is to verify a kill within 36 hours and begin mitigation measures within 24 to 48 hours of positive verification.

I don't mind living with the coyotes.... But when they get habituated on the sheep it becomes more than just my problem. Why would they hunt when they can just pull up to the table?

GILLIAN WATT
SHEEP PRODUCER

The program has hired more than 30 wildlife specialists, who hold a trapper's license and a verification certificate.

"The process went well for us," said Mitchell. "We have a neigh-

bour who is licensed (as a wildlife specialist) to verify and trap and he knows the area."

South Kamloops sheep producer Gillian Watt agreed.

"The program co-ordinator got back to me within 15 minutes and a verification specialist was here within a day."

A good number of producers have completed the verification training course offered by the Conservation Officer Service and are able to self-verify attacks.

"I like that this is building capacity rather than just the CO service," said Watt.

"Ranchers are learning to better understand the wildlife."

The wildlife specialist investigates the incident if the producer is not qualified to self-verify and initiates mitigation work upon approval of the co-ordinator.



KEVIN BOON
BRITISH COLUMBIA CATTLEMEN'S ASSOCIATION

"This is different from previous programs in that it targets whole pack removal," said BCCA general manager Kevin Boon.

"The objective is to take out the entire offending pack. We were getting a lot of criticism from different advocates on the other side as well as the trapper's association that we were splitting packs and creating a bigger problem."

The wildlife specialist will then report the mitigation work to the co-ordinator.

The verification report also starts a compensation claim with the provincial agriculture ministry. Compensation is provided based on age of the animals involved and market value.

Mitchell said that can be a problem when the animals are out on the range.

"You have to find a kill to be able to claim compensation," he said.

"So you have to be there within a day or two. If it's a calf, you can find the smear, but the wolves won't have left even a broken bone."

The program co-ordinator reviews each incident and may make recommendations for enhancing a farm's livestock management practices to reduce the likelihood of further predation.

"Management practices are an important aspect," said Watt.

"I have an Akbash guard dog and a llama who have both done some amazing things to protect my sheep from the coyotes, but I have to bring my sheep up close to the house every night, I have to keep the fence secure and buried and I just bought some bigger lights."

"I don't mind living with the coyotes — they can eat the ground squirrels.... But when they get habituated on the sheep it becomes more than just my problem. Why would they hunt when they can just pull up to the table?"

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MUSIC FROM MARS?



Local legend has it that aliens dropped this pair of pianos onto a knoll overlooking Paul and Janice LeBoeuf's farmstead outside the hamlet of Florence in southwestern Ontario. | JEFFREY CARTER PHOTO



AGRICULTURAL SALES

Growers need to know customers

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

GUELPH, Ont. — Farmers need to enter the modern era of marketing and focus on what their customers are asking for, said a marketing expert with the agricultural economics department at Purdue University.

The time when a producer or manufacturer could produce a product and concentrate on taking orders disappeared with the Second World War, he said.

Then came a period that focussed on the art of persuasion, which he called the sales era when product knowledge and the ability to deal with objections closed deals.

Today, producers must understand the needs, goals and beliefs of their customers, Downey told the Ontario Seed Growers Association here Dec. 13.

"This is the biggest shift in marketing in recorded history and it's happened in the past 10 to 15 years. This is the market era. It's about customers being tailored to."

He used an example of two farming brothers from the United States Midwest to illustrate his point. Their need was obvious as stated by brother Number One: "good used equipment with low hours."

The same brother also talked about the farming operation's goal — building their land base for the future. Brother Number Two talked about their desire to include small dealers from their community in their search for equipment.

Downey interpreted this to mean that the brothers believed in stewardship.

However, one member of his audience suggested the brothers' belief might better be described as their desire to support the community surrounding them.

Downey said this example shows there's more to making a sale than just understanding goals, needs and beliefs. Sellers, farmers included, need to understand their cus-

tomers' perception of value, the combination of how they understand the costs and benefits of any particular product.

"We make our decisions based on the perception of value," he said.

"The role of today's marketers is to figure out how the perceptions of their customers are shaped. It's that simple."

Equally important is to understand the three main ways products can be positioned for sale, he added.

Sellers may have the best product available but one that's difficult and time consuming to achieve. In the seed industry, Downey said it takes an average of 20 years of research and \$125 million to introduce a new genetic trait.

A second position is to have the lowest cost. However, this comes with its own challenges as Downey illustrated with a story about Walmart.

Walmart's business is about selling shelf space to suppliers who need to be price competitive and able to improve on that competitiveness over time, he said. It was brutally competitive for the company's suppliers, many of which went out of business. As a result, Walmart began managing the profit of some of its suppliers.

With cotton products, the retail giant began to work with primary producers in the U.S. to lower the price. Farmers were encouraged to include a short-season crop in their rotation to make up the difference. Walmart then went again to farmers, asking for a shift to organic production for both radishes and cotton. In the process, a new market for organic cotton products was developed.

Seed growers and other farmer may wish to emphasize the third marketing position: customer intimacy, which is about trust and credibility, Downey said. This type of relationship takes time but is possible for sellers who know their products and customers' needs.

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DREARY GREY DAY



Horses graze on a cold day south of High River, Alta. | MIKE STURK PHOTO

AG NOTES

STRENGTHENING ENVIRONMENTAL RESEARCH

The federal government is reopening the Frelighsburg Experimental Farm in Quebec next year.

Research at the satellite site of the Saint-Jean-sur-Richelieu Research and Development Centre will focus on the development of new, clean technologies to help protect Canada's water and soil resources.

Researchers are expected to develop new techniques and tools in precision farming and crop management.

The research farm will also collect information on fruit varieties able to withstand extreme and unusual temperature fluctuations to help increase crop's resiliency to climate change.

Technologies and methods developed from this research will help producers across the

country continue to farm in an environmentally sustainable manner.

CANADA INVESTS IN YOUTH SUMMIT

The federal government plans to invest up to \$780,000 to 4-H Canada to host the 2017 Global 4-H Network Summit in Ottawa in July.

The four-day event is also expected to feature workshops and a trade show focusing on education and career opportunities.

Ottawa has also increased the amount available under Farm Credit Canada's Young Farmer Loan.

FCC will double the amount of credit available to young farmers to \$1 million from \$500,000 and lower the possible minimum down payment to 20 percent on the purchase or improvement of farmland and buildings.

NOMINATIONS FOR EQUINE EXCELLENCE AWARDS

Farm & Food Care Saskatchewan and the Saskatchewan Horse Federation are asking for nominations for the awards of distinction for equine welfare.

Nominations for individuals, organizations and companies will be accepted until Feb. 19. Award recipients are expected to be honoured March 4 during the federation's annual general meeting in Saskatoon.

Nominations are sought for four categories:

- Equine Welfare Innovation — Award of Distinction
- Equine Welfare Young Steward of the Future — Award of Distinction
- Young Steward Award
- Equine Welfare Leadership — Award of Distinction
- Leadership Award
- Equine Welfare Communication and Education — Award of Distinction
- Communication and Education Award

Nomination forms and further details are available at saskhorse.ca/farm-and-food-care and farmfoodcaresk.org/events.

DAIRY FARMERS ELECT CHAIR

Tom Kootstra was recently elected as chair of Alberta Milk.

Heini Hehli continues in the role of vice-chair and Gezinus Martens has been selected second vice-chair.

The trio of have served for years on the board of directors, as well as various specialized committees.

Kootstra owns and operates Stradow Farms near Ponoka where the family operation has a herd of 145 Holstein cows.

FCC CONTRIBUTES TO 4-H

The Farm Credit Canada 4-H Club Fund has contributed \$122,750 to 253 4-H clubs across Canada.

The fund is part of FCC's annual \$250,000 contribution to 4-H Canada, which supports national, provincial and local 4-H initiatives.

The FCC 4-H Club Fund awards up to \$500 for projects such as achievement days, horse clinics, field trips, public speaking workshops and equipment purchases. The next application period opens in fall 2017.

To view the list of recipients, go to fcc.ca/4-H.

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ONE OR TWO WORDS

Benchmade 940-1: quality everyday knife worth the price

OUTDOOR PURSUITS



KIM QUINTIN

One of my favorite knives for everyday carry has been a Benchmade 940-1. It was designed by custom knife maker Warren Osborne and is manufactured in Oregon City, Oregon.

The blade is less than nine centimetres long and made from S90V stainless steel. It has a reverse tanto tip and stonewash finish.

S90V stainless steel is very abrasion resistant, which means it holds an edge for longer periods of use, but that comes with a tradeoff — it requires additional effort to properly sharpen.



KIM QUINTIN PHOTO

The blade edge was shaving sharp right out of the box. After a few sharpening practice sessions, I am able to cleanly slice telephone book paper into little slivers.

The handle is about 11.5 cm long and made from carbon fibre. It has an open body design with stainless steel liners and blue anodized spacers.

Subtle curves and rounded corners of the handle make it comfort-

able to grip, even for extended periods.

The knife is about 20 cm when deployed and weighs about 70 grams. It is designed to be carried tip up and has a reversible pocket clip to suit either left- or right-handed users. Thumb studs on the blade and AXIS lock allow closing and deploying the blade with either hand.

Being that the knife is intended

for everyday carry rather than tactical use, I adjusted the pivot screw on mine for fast deployment rather than a solid lockup.

One could adjust the pivot with zero blade play across the axis but that introduces too much rotational friction and slower action.

The model 940-1 is based on the Benchmade 940, which uses S30V stainless steel for the blade, has aluminum handle scales and weighs an additional 15 grams.

The base model has additional style options for the blade, while

the 940-1 uses premium material in a standardized configuration.

The lightweight and slim design makes the knife pleasant and unobtrusive to carry. Although expensive, it is a beneficial everyday companion while wearing casual or even semi-formal clothing.

The Benchmade 940 is built with quality materials and retails for about \$245.

The 940-1 uses premium materials and sells for around \$355.

Kim Quintin is a Saskatoon outdoor enthusiast and knife maker. He can be reached for column suggestions at kim.quintin@producer.com or 306-665-9687.





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CANADIAN FOOD AND DRINK SUMMIT

Dairy processor taps global, domestic markets with new products

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

TORONTO — Canada's supply-management system may make it challenging to operate in Canada but that doesn't mean companies like Saputo Inc. haven't been able to flourish.

According to the president of the company's Canadian dairy division, there have been plenty of opportunities abroad.

"Sixty percent of our revenue is generated outside of Canada. Three years ago, it was 30 percent," Carlo Colizza said.

"Canada already consumes two times the world's average consumption of dairy products. We're only 10 percent behind our American neighbours and 20 percent behind Australia."

Before taking the podium at the Canadian Food and Drink Summit in Toronto last fall, Colizza declined to express an opinion con-

cerning Canada's supply management system.

"We manage our company according to whatever rules we have before it," he said.

Still, the system is difficult to ignore when you're based in Canada.

Saputo, which remains a family-operated business, was founded in 1954, prior to supply management being developed. Most of the company's expansion came after the system of quotas and import tariffs was introduced in the 1960s.

Today, Saputo has 12,500 employees and operates 53 plants, of which 24 are located in Canada, 25 in the United States and four split between Australia and Argentina. These manufacture a wide range of cheeses, cultured products, fluid milk and dairy ingredients. Annual revenues approach \$11 billion.

While domestic growth opportunities are limited — three players control about 80 percent of Canada's processing sector — Saputo



CARLO COLIZZA
SAPUTO PRESIDENT

has made two recent acquisitions. Woolwich Dairy in Ontario was bought in 2015, giving Saputo a presence in the goat milk sector, and Atlantic Canada's Scotsburn Co-operative was acquired the previous year.

Operating in Canada is complicated with the rules and regulations surrounding supply management and could become more so with the impending implementation of the Comprehensive Economic and

Trade Agreement between Canada and the European Union.

Colizza said the deal could result in as much as 18,500 tonnes of cheese moving from Europe to Canada, the equivalent of 185 million litres of milk.

"It's about six percent of the total cheese consumed in Canada,"

Additional dairy products will likely enter Canada if the Trans-Pacific Partnership is implemented, a development that could benefit Saputo's international operations.

"We compete in some of those countries that are part of the TPP," he said.

Colizza said raw milk pricing in Canada represents a barrier to processing interests, as does the supply-management system.

Supply management has also provided Canadian dairy farmers with a stable pricing regime.

Ron Bonnet, president of the Canadian Federation of Agricul-

ture, asked Colizza to comment on the current round of low world prices threatening dairy producers in Ireland, Australia and New Zealand, despite their lower production costs.

Colizza said the industry had been ramping up production in anticipation of increased demand from countries like China and Russia but this failed to materialize.

"It's still a vulnerable market," he said.

"At some point, we'll see these markets recover. Whether that's a year from now or later ... we'll see them recover."

Regardless of the price of raw milk in Canada, Colizza said there are opportunities to move the industry forward. He said Saputo is working with Dairy Farmers of Canada to develop new products.

This include such products as highly fortified dairy beverages and beverages containing both milk and juice.

PRODUCTION

WHAT IT TAKES TO GROW BUMPER CANOLA CROP

An Alberta farmer is the leader in Agri-Trend's Canola 100 challenge. Learn about his recipe for success. | **Page 30**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

FALL CEREALS

Dryland hybrid rye hits 126 bu. per acre

Despite lower rye prices, high yields make good returns possible in a variety of market opportunities

BY RON LYSENG
WINNIPEG BUREAU

Hybrid ryes in Saskatchewan yielded 90 to 100 bushels in 2016 with a top yield of 126 bushels in the southeast.

Hybrid falling numbers averaged 100 to 150 points higher than open pollinated.

Prairie farmers harvested 20,000 acres of hybrid fall rye last year.

Today, 40,000 acres of hybrid fall rye are safe and secure in the ground, buried under the snow blanket, said FP Genetics chief executive officer Rod Merryweather.

Seventy-five percent of hybrid rye grown by FP customers was Bono with the remaining 25 percent Brasetto.

"According to Stats Canada, we had record yields in 2016, which accounts for the weak prices we've seen lately. We harvested a big crop," Merryweather said.

"Price for the rye that's selling right now has been down around \$4, but it's starting to pick up again.

We're starting to work through that volume, so prices are improving. I've heard prices as high as five dollars a bushel just recently, on hybrid rye going for human consumption."

Merryweather said it isn't the sort of crop that requires a high price to justify higher input costs. What may be lacking in dollars per bushel is made up for by sheer volume.

"Even if the grade isn't there, the grower is making a darned good return on yield," he said.

"This year, let's say the OP (open pollinated) varieties had an exceptional yield with an average 75 bu., and let's say the hybrids averaged 100 bu.

"Now, if the crop was at the low end, it would go for feed at \$4 per bushel. So that's \$300 per acre for the OPs, which is still not a bad return, but you're getting \$400 on the hybrids."

Merryweather agreed it's a waste to use a superior quality grain as livestock feed.

"It's a shame, but we had over-

supply, which brought prices for high quality grain down to where they're not much different from feed grain prices. But that's been an anomaly. I think we'll see the price spread widen to where it should be next year."



ROD MERRYWEATHER
FP GENETICS

There is a strong trend of current buyers switching from conventional open pollinated varieties to hybrid rye, but price discovery remains a problem. Rye is a small niche market, so it's difficult finding price quotes.

Merryweather said he knows of rye selling at \$4 and similar rye going to a different buyer at more than \$5.

To get the price premium, he added, it needs to be a hybrid with a high falling number of 250 to 300 and it must have less than one part per million fusarium.

"Minneapolis is the North American centre of trade for rye and the natural centre for grain collection," he said.

"There are big millers that use a lot of rye, plus there's a big distilling industry in that geographic area. It's a high demand situation because of increasing demand for high quality distilled beverages.

"Here in Canada, Wisers is trying to access all Brasetto for their Windsor plant. Last spring they were trying to buy 7,000 tonnes of Brasetto. I don't think they got anywhere near that amount."

Weather dictates grade, he said. There will always be years with off-grade cereals so it's prudent to develop a feed market.

To that end, FP has embarked on a feeding trial with one of the biggest pork producers in the United States in conjunction with KWS, the German company that owns the FP hybrid varieties.

Approximately 175 producers in 2015 grew FP hybrid rye in 2015, which increased to 250 last year.

Merryweather said half the FP customers are switching from open pollinated rye to hybrids. The other half are new to rye, switching from other crops, and they want to start with hybrids. Another smaller group consists of producers wanting to get out of winter wheat.

"I'd say 100 percent of them have moved to hybrid rye because they see the potential for higher financial returns," he said.

"Commodity prices have not been tremendous lately, so producers are looking for crops that can earn a bigger profit based on high volume rather than dollars per bushel."

ron.lyseng@producer.com

FALL CEREALS

Irrigated Alta. rye averages 180 bu.

BY RON LYSENG
WINNIPEG BUREAU

Nearly all hybrid rye in Alberta is grown under irrigation with the top producer averaging 180 bushels last year. Most other hybrid rye growers saw 140 bu.

Alberta's hybrid rye scene is different from that in Saskatchewan and Manitoba, where FP Genetics' Brasetto and Bono are the only varieties.

The only hybrid rye grown in Alberta is Guttino, sold through Stamp Seeds at Enchant and the 13 members of SeedNet, a partnership of seed growers. All three varieties are owned by the German company KWS.

Greg Stamp said only 30 producers grow this hybrid rye. Twenty-five percent of hybrid rye production isn't even aimed at the premium milling and distilling market. Instead, it's grown solely for silage.

"One of our customers is Kolk Farms," Stamp said.

"They run a feedlot near Iron Springs, and they've silaged hybrid rye for three years in a row. It



spreads out the work for their silage chopper because the rye is ready for cutting before the corn. They say the economics are actually quite good, about on par with the corn.

"We had kind of a localized drought around here in 2016. My dryland growers who were hardest hit averaged 100 bu. on their Guttino. Their traditional rye was down around 70 bu. When there's drought stress, the hybrids just take off and pull away from the OPs. I've seen the hybrids with as much as a 40 percent yield advantage under extreme drought stress."

A lot more than 25 percent of the

Guttino goes to feed when the weather turns wet at harvest. However, there are a number of outlets for quality rye when producers get a dry harvest.

"We're at a freight disadvantage to Minneapolis, but we sell some into B.C. and some to Calgary and Lethbridge for distilling," he said.

"We shipped some into Saskatchewan this year. Some of my customers are able to load rail cars, so they have more market options."

Stamp and his customers have seeded 6,000 acres of Guttino.

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Greg Stamp says Guttino fall rye grown in Alberta that doesn't meet milling and distilling standards goes for silage and supplies a nearby feedlot. | STAMP SEEDS PHOTOS

MAXIMIZING YIELDS

Canola contest leader's recipe for success

The leader of Agri-Trend's Canola 100 challenge says extra nutrients and fungicide paid off on his 140-acre field

BY ROBIN BOOKER
SASKATOON NEWSROOM

Mike Nelson entered Agri-Trend's Canola 100 challenge because he wanted to determine the maximum yield he could pull out of a canola crop on his farm.

"It's good to see what you can do and what the crop can do by pushing it to the limit on one field," said Nelson.

The Canola 100 contest will award the first grower to achieve 100 bushels per acre in a 50-acre plot with the use of new John Deere farm equipment.

The winner gets to put 100 hours on each of the following units: a new John Deere tractor, air seeder, high clearance sprayer, swather and combine.

If 100 bu. per acre is not achieved, then the leader after three growing seasons will take the prize, which so far is Nelson.

Nelson operates a 5,300-acre farm near Wetaskiwin, Alta., with his father, Lorne, brother, Matt, and brother-in-law, Tyson Kinsey. Together they grow wheat, canola and peas.

Growing conditions near Wetaskiwin were excellent this summer, and Nelson grew a whopper of a canola crop that weighed in at 81.43 bu. per acre, which was enough to push him into the lead of the Canola 100 challenge.

The enhanced fertility program he used also helped Nelson's big canola crop.

"I probably used 30 to 40 percent more nitrogen and sulfur on this crop than on the other crops, just to see what I could do," he said. "I don't usually put that much on."

The extra fertility and attention he gave his 140-acre field paid off.

"We did get a yield response," he said. "We probably got 12 bu. more on this particular field than the rest of the canola, just because of the extra pass of fungicide and extra nutrients."

Sixteen of the 80 farmers who participated in the first year of the challenge decided to pay the \$1,000 fee to have their crop verified.

AgCall performed the yield verification for the competition, and an Agri-Trend representative also attended the verifications to ensure the measurements were accurate.

Nelson said he was surprised to



Mike Nelson, leader of the Canola 100 challenge, credits extra nitrogen and sulfur to push yields to 81 bu. per acre. | MIKE NELSON PHOTO

WHAT IT TAKES TO GROW A BUMPER CANOLA CROP

Date	Comment	Type	Actual #	Rate per acre	Product/Blend	
2015-10-28	sulfur fines spread fall 2015	dry	34-0-0-38	160 lb.	21-0-0-24	• Seeded Invigor 241c: May 14
2016-05-14	midrow banded at seeding	dry	9-0-0-10	42 lb.	21-0-0-24	• Sprayed Liberty, Centurion, Priaxor: June 7
2016-05-14	midrow at seeding	dry	41-0-0-0	90 lb.	(urea) 46-0-0	• Sprayed a foliar fertilizer: June 14
2016-05-14	midrow at seeding - ESN	dry	37-0-0-0	85 lb.	ESN 44-0-0	• Sprayed another foliar fertilizer: June 22
2016-05-14	seed placed s15 at seeding	dry	8-20-0-9	60 lb.	MES 15	• Sprayed fungicide with foliar fertilizer: July 1
						• Sprayed another fungicide: July 8

We probably got 12 bu. more on this particular field than the rest of the canola, just because of the extra pass of fungicide and extra nutrients.

MIKE NELSON
ALBERTA FARMER

hear his crop was the leader of the challenge, and he plans to enter another canola crop in the competition next summer.

The agronomy

The field Nelson chose was a well-drained quarter section that he treated uniformly. He grew peas on it in 2014 and wheat in 2015, and

the canola was direct seeded into the wheat stubble.

In the fall of 2015 Nelson broadcast 160 pounds of ammonium sulfate (sulfur fines) per acre and then harrowed it in.

Glyphosate was used as a burn-down, and the canola was seeded May 14.

Nelson seeded Bayer's InVigor L241C at a rate of five lb. per acre with a Bourgault 3320 XTC equipped with mid-row banders.

Sixty pounds of a sulfur product, S-15, were placed with the seed, and 90 lb. of nitrogen and another 10 lb. of sulfur were applied in the mid-row band.

Two treatments of Liberty herbicide were applied, and Priaxor fungicide was included with the first herbicide application to control blackleg.

Two more fungicide treatments were applied to control sclerotinia, and three applications of a foliar nutrient program were also used.

"I put roughly about 140 lb. of N on, only 20 lb. of phosphate, zero potash and 60 lb. of sulfur. Those are all actual numbers."

He also used a foliar nutrient program but is not sure how effective it was.

"Every time I did that field, I did another field (applied foliar nutrients with his sprayer), and I didn't notice any yield difference on the other field," he said.

Nelson waited as long as possible before swathing to allow the seeds to fill out.

"I really waited. I swathed it at 80 to 90 percent seed colour change. I swathed it in the morning when it

was wet so it wouldn't shell out."

The crop was left in the swath for about 10 days before being combined Sept. 22 and was hauled to the Richardson Pioneer elevator in nearby Lacombe, Alta., for weighing.

Nelson said he will likely use the same agronomy in next year's competition.

"I'll stick to the same program, maybe tweak it a little bit," he said.

"Because of all the moisture we had — we probably had up to 16 to 18 inches (400 to 450 millimetres) of rain this year — I would have benefitted from a third application of fungicide. There still was sclerotinia present in the field at harvest. If we got that much rain again, I would try and do that."

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HERBICIDE MANAGEMENT

Multiple modes of action kills weeds, prevents resistance

BY ROBIN BOOKER
SASKATOON NEWSROOM

Growers have long been told they need to rotate herbicide modes of action and even use multiple modes of action at the same time to slow the development of herbicide resistant weeds in their fields.

"In terms of reducing your risk of resistance development, it's an exponential decrease from your risk of having a weed develop resis-

tance if you use more than one mode of action," Graham Collier of Nufarm said at the Farm Forum Event in Calgary late last year.

Collier said a goal for Nufarm is to offer affordable ready-made formulations to make it as easy as possible for farmers to attack weed populations with multiple modes of action.

"Basically, our approach is multiple modes of action being used in a pre-seed burn-down, or a pre-emergent application or in some

cases in the fall, before seeding in the spring," he said.

"What we want to do is include modes of action at those times that we can't necessarily use in crop."

Effective mixture

He said including a Group 14 chemical in the herbicide regime has proven a good option as another mode of action to get into the rotation because there is a synergy between Group 14 and Group 6

that make this mixture especially effective.

This is because they use a similar method to kill the plant, which is singulate oxygen.

"What singulate oxygen does is it tears the cell membrane apart, and that causes the contents to leak out and dry and you get that really dry and crisp brown symptomatology appearing on the leaves, that quick necrosis," Collier said.

He said there is a greater efficacy than with either product alone

because both modes of action kill the plant in the same way but do it from two totally separate systems within the plant.

Collier said Nufarm's Conquer has both Group 14 and Group 6 active ingredient, and when mixed with glyphosate, produces a burn-down that cleans up resistant kochia, cleavers and volunteer canola yet is safe to use before seeding canola.

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ANHYDROUS AMMONIA

Chaos in fertilizer sector over NH3 tank rules

Anhydrous ammonia industry left out of consultations on Transport Canada's changes to tank design and testing

BY RON LYSENG
WINNIPEG BUREAU

With the implementation date for new NH3 tank regulations vague and parts of the new rules in abeyance, it could be a long time before Canadians are able to buy new tanks.

"There currently is no design and construction standard for ammonia tanks used for field application. There will be no new ammonia tanks constructed or imported in Canada until Transport Canada resolves this," says Delaney Ross Burtnack, chief executive officer of the Canadian Association of Agri-Retailers (CAAR).

Transport Canada, in conjunction with the Canadian Standards Association (CSA), decided in 2012 to make major changes to regulations governing all new and existing NH3 tanks in Canada.

The problem was that the CSA B620 Technical Standards Committee didn't tell the anhydrous ammonia industry. CAAR wasn't informed about the proposed changes until Glenn Dickson, an independent consultant on the technical standards committee, warned it in an email in 2015.

Although CSA and Transport Canada are independent of one another, Dickson said Transport Canada is responsible for all movement of hazardous goods by



NH3 tanks form the backbone of fertilizer application on many Canadian farms. | FILE PHOTO

road and calls the shots on the committee.

"The fertilizer sector was not part of the discussion leading to the 2012 decision. Representatives were not present for the vote and

are not believed to have been consulted," says Burtnack.

"So the Canadian Association of Agri-Retailers and Fertilizer Canada joined the committee late in 2015. We quickly saw that our con-

cerns were justified because on Jan. 26, 2016, we uncovered pending changes, which would have a significant impact on the anhydrous ammonia industry."

TC51 is a standard for the design

and manufacture of nurse tanks and applicator tanks. Transport Canada struck it from the code and has not yet issued a replacement.

CONTINUED ON NEXT PAGE >>

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ANHYDROUS AMMONIA

Transport Canada says ...

The Western Producer sent Transport Canada seven questions regarding changes to NH3 tank regulations. Here is a synopsis of its response.

What is the date for implementation of the new regulations?

A date has not been established for the revised standards that will be incorporated into the Transportation of Dangerous Goods Regulations. A notice will be published on TC's website as soon as the new editions are adopted. We anticipate this will take place in the spring of 2017 with the regulations coming into force six months later.

Is there an interim TC51 standard that manufacturers can use right now?

New non-specification ASME tanks and TC51 tanks may be constructed for anhydrous ammonia delivery and application in the field, but they will no longer be permitted after adoption of B620-14 and B622-14. It's important to note that non-specification ASME tanks are designed as stationary tanks and not for transportation.

How long will the industry in Canada go without access to new tanks?

TC is reviewing the issue and

recognizes the possible re-introduction of TC51 tanks into the CSA B620 standard. TC would consider continued manufacture of TC51 tanks in the transitory period should the CSA B620 committee agree.

Opening an NH3 tank allows oxygen inside, thus contributing to deterioration and in fact increasing risks. Why switch from five years to three years?

TC is aware that nurse tanks can fail during testing and while in use. Tank deterioration and tank failure mechanisms are complicated issues. TC and the US DOT continue to investigate and fund research into these matters. The issue of oxygen contributing to stress corrosion cracking can be eliminated by purging a tank of NH3 before servicing and testing.

Tank integrity problems have been declining sharply in recent decades. Is TC trying to fix something that isn't broken?

The main issue is determining which existing non-specification

ASME tanks were built with the correct materials and fabrication techniques. TC's goal of providing a safe and secure dangerous goods transportation system will have been met once all deficient tanks have been removed.

CAAR has been around for 27 years. Why wasn't it included early in the process?

TC has worked with CAAR in the past concerning tanks in agricultural service. The CSA standard writing body and the B620 committee is open and inclusive and has representation from industry, associations, users and regulators. TC is but one member of this committee.

Nearly all NH3 incidents in recent decades relate to hoses, valves and operator error. Why is TC addressing tank integrity?

TC continues to review all transportation of dangerous goods related matters, including operator error and tank integrity. TC is looking into the ongoing matter of hoses and handling errors in collaboration with industry and the B620 committee.

» CONTINUED FROM PREVIOUS PAGE

Without a building standard, new tanks cannot be constructed in Canada or imported from the United States.

"That presents a huge issue for anyone looking to purchase a new tank this year. Manufacturers don't have a standard they can build to and which would be approved by Transport Canada for ammonia, so obviously they can't build new tanks."

All this came as a shock to the industry. We assume this decision was made (by Transport Canada) with the idea of increasing the safety of these tanks, but it didn't make sense with respect to what we were seeing in the field.

DELANEY ROSS BURTNACK
CANADIAN ASSOCIATION OF AGRI-RETAILERS

Burtneck says another issue is that the testing cycle has tightened up for existing tanks. It's being changed from a five-year interval to a three-year interval. These are the hydrostatic tests where all NH3 is removed, the tank is filled with water, then pressurized to 150 percent of maximum allowable working pressure. It is done to ensure the integrity of the tanks. As well, the detailed visual inspection has dropped from three years down to annually.

"All this came as a shock to the industry. We assume this decision was made (by Transport Canada) with the idea of increasing the safety of these tanks, but it didn't make sense with respect to what we were seeing in the field. The tanks appeared to be performing well in terms of safety. The industry was not consulted in any of these 2012 decisions.

"We presented Transport Canada with our data showing these tanks have a pass rate well over 99 per-

cent in the hydrostatic tests on the five-year cycle. So it was a tremendous surprise they wanted to increase the frequency. In gathering our data, we worked closely with Fertilizer Canada and ammonia retailers."

Burtneck estimates 10,000 to 12,000 NH3 tanks exist in Canada, 95 percent of which are approved by the ASME (American Society of Mechanical Engineers).

Canada's TC51 regulations imposed further criteria beyond the ASME requirement. Canadian standards are geared toward highway travel, requiring components such as lighting and rear crash protection.

Whether it's built in Canada or the U.S., every Canadian NH3 tank since 1991 must have a Canadian registration number designating that it meets the criteria.

"We think the regulations that had been in place were doing a great job. We have a number of tanks operating since the 1970s. They've been tested according to the TC51 standards, and they continue passing.

"The problem right now is manufacturers do not have a new standard for design and construction. The government has not yet established what the TC51 replacement standard will be. Because TC51 pertains to a highway transport tank, it doesn't always work well as an application tank in the field. So whatever new standard they develop must address both uses."

To compound the situation, no implementation date has been announced. The standards adopted in 2012 without industry input have been published, but they haven't yet been adopted as Transportation of Dangerous Goods Regulations. Burtneck hopes this will happen early in 2017, but there's no guarantee.

"The committee recognizes there's been a significant oversight and they're working through it."

CAAR plans to meet with the technical standards committee Jan. 17-18.

SAFETY TESTING

Retailers defend tank safety

BY RON LYSENG
WINNIPEG BUREAU

The Canadian Association of Agri-Retailers is perplexed about Transport Canada leaving the NH3 industry without access to new tanks and forcing more frequent pressure tests.

Increasing the frequency of hydrostatic pressure tests from five years to three years will increase the risk of tank failures, according to CAAR. Numerous studies have shown that the introduction of oxygen into anhydrous tanks accelerates stress corrosion cracking. CAAR says more open tank tests will result in more premature tank failures.

Under the pre-2012 changes, Canadian tanks had a pass rate more than 99 percent in the hydrostatic tests on the five-year cycle. Tanks that have been operating since the 1970s are tested every five years and continue to pass.

There's a strong likelihood the pass rate will decline when tanks go to three-year hydrostatic cycles, says CAAR.

Ammonia tanks themselves do not present a major hazard,

according to data from CAAR members and Transport Canada.

"The more we dig into the data, the more we see the industry perception that anhydrous tanks are safe is a correct perception. The system we've had for years is working at catching bad equipment," says CAAR chief executive officer Delaney Ross Burtneck.

"One of the things we've uncovered going through this data is a continuous improvement in safety, based on nurse tank incident reports to Transport Canada. According to their own data, there hasn't been a pinhole leak reported in the field since 2009. There was one pinhole leak detected during (visual) inspection in 2012, but that's what the inspection is for.

"Less than six percent of all reports from 2004 to 2014 related to pinholes, and none of those were a crisis. The last time we had an actual injury was 2015, and that wasn't a tank issue. Nearly all human safety incidents are hose and valve issues, not tank issues. That's where Transport Canada and the industry should focus their attention."

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THE YEAR AHEAD

Manitoba government feels way forward

IT'S A NEW YEAR IN AGRICULTURE, AND *THE WESTERN PRODUCER* TALKED WITH THE AGRICULTURE MINISTERS IN MANITOBA, SASKATCHEWAN AND ALBERTA TO GET A SENSE OF WHAT MIGHT BE IN STORE FOR THE INDUSTRY IN THE COMING YEAR. SEE NEXT PAGE FOR MORE STORIES.

BY ED WHITE
WINNIPEG BUREAU

Manitoba's agriculture minister is hoping to spend this year making it easier for farmers to farm.

He also hopes to reverse the decline of the beef cow and hog herds and return agriculture to its place as a respected driving force of the provincial economy.

"You will be excited about what we're going to share," Ralph Eichler said about his upcoming Jan. 17 speech at Manitoba Ag Days.

He wouldn't reveal any details, but it is clear from speaking with him that he feels farmers have been constrained by government-imposed regulations, and he wants farmers and other parts of the agriculture industry to feel free once more to invest in growth and development of their businesses.

At the same time, he and Premier Brian Pallister's Progressive Conservative government are trying to develop environmental protection and carbon pricing systems that achieve sustainability goals without hampering economic growth.

It's a tough balance, but he sounds keen to see his government

begin to introduce initiatives.

"I'm really excited about what that looks like," he said.

"I've been listening and learning and trying to make sure we get things right for the ag sector."

The Pallister government has been very conservative in its first months in power, launching few major initiatives while conducting an internal assessment of the state of the government after 17 years of NDP rule.

Spending restraint and cuts have been notable focuses as Pallister grapples with a budget deficit that has hit \$1 billion with unknown liabilities piled up by crown corporations that the NDP relied upon for many activities.

How much room that leaves for new spending priorities remains to be seen.

Here are his views on a few issues:

The beef cow herd

Eichler wants to reverse the steady decline of the Manitoba beef herd, which has been continual since the discovery of BSE in Canada in 2003.

He thinks the current period of



Just to get back to where we need to be, we need about 2.4 million (more) hogs per year to meet the current market demand.

RALPH EICHLER
MANITOBA AGRICULTURE MINISTER

low prices might be just the thing to encourage cattle producers to expand their herds, while challenging returns on crop production could make beef production on marginal land seem attractive.

He also thinks Manitoba might be able to attract investment from Saskatchewan and Alberta.

"There are some opportunities because of the price of our land compared to Saskatchewan and Alberta," said Eichler.

"I think we'll start to see gains. It's a grand opportunity, for those who

can afford it, to breed those heifers back and keep them and increase the numbers that way."

Hog processing and the shrinking herd

Manitoba's hog farmers have been hamstrung for years by an NDP-imposed hog barn construction moratorium, and the two major processors are running under-capacity because of the dearth of pigs.

Eichler wants to change that.

"It's about being open for business," he said.

"The biggest problem with that is red tape."

Both the Maple Leaf slaughter plant in Brandon and the HyLife plant in Neepawa are major provincial exporters with markets not just within Canada and North America but also in Asia. Eichler wants to see that expand.

The hog barn moratorium was slightly relaxed in the last year of the NDP government, and Eichler has given much hope to the provincial industry that building a new barn will no longer seem an impossible dream.

"It's a great opportunity for Canadians and Manitobans. It helps grow communities, and there's lots and lots of positives for creating those good jobs," said Eichler.

"Just to get back to where we need to be, we need about 2.4 million (more) hogs per year to meet the

current market demand."

Environmental issues

The Pallister government has been less defiant toward federal government carbon pricing than Saskatchewan, but it still hasn't jumped aboard.

Eichler said his government understands that carbon pricing will have a significant effect on farmers, so the system that is imposed needs to allow farmers and other businesspeople to operate.

"We'll have a made-in-Manitoba plan that will reflect our specific environmental needs and circumstances that meet our province's needs," said Eichler.

"We know... one size (doesn't) fit all, and we know that farmers are price-takers, not price-makers, so we have to make sure we get this right."

The Pallister government has said it supports an expansion of the ALUS (alternate land use services) pilot program to encourage environmental sustainability, but it hasn't rushed out a province-wide program yet. Eichler said it might take some time.

"We're going to develop that program," he said.

"We're hoping that we can roll something out fairly soon, but we have to make sure we get it right."

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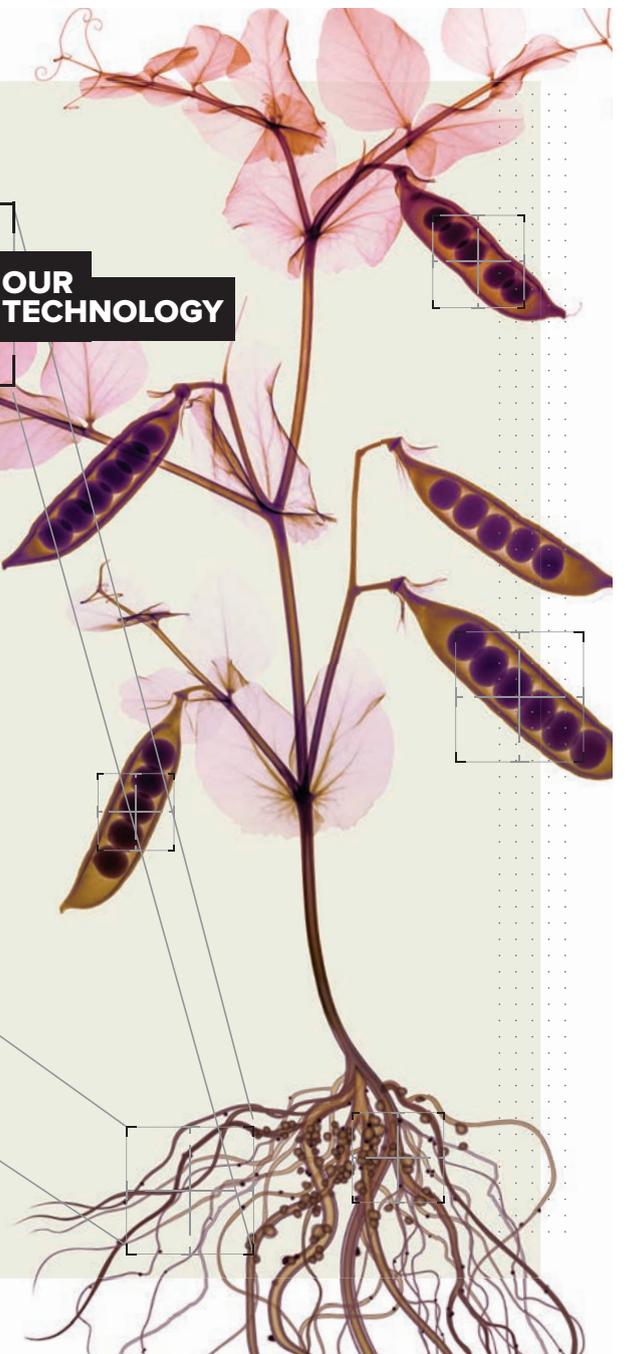
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THE YEAR AHEAD

Poor harvest, spring flooding on mind of Sask. ag minister

Lyle Stewart also says the new federal carbon tax will hurt agriculture

BY KAREN BRIERE
REGINA BUREAU

Saskatchewan Agriculture Minister Lyle Stewart is hoping for a smoother ride this year after the roller-coaster that grain producers endured in 2016.

"When you have an early seeding and a late harvest, that doesn't combine to make very good news usually," he said.

"It caused lots of problems."

Early seeding in dry conditions, predictions of a record crop and then a wet summer and harvest all combined to take producers on that wild ride that Stewart believes was the main issue facing the industry last year.

About 1.5 million acres of crop were left in the field in December, and Saskatchewan Crop Insurance Corp. estimated that payouts will top \$500 million.

About 8,700 claims had been made by mid-December, and 6,855 extensions were granted to producers who didn't finish harvest.

"That ensures that they'll have insurance if there's a shortfall in the combination of production and quality when they harvest it in the spring," Stewart said.

However, farmers still produced the second-largest crop in history at 35.6 million tonnes.

Moving that crop could have been a problem, similar to 2013-14, but the late harvest and quality issues delayed deliveries and the rail system has kept up.

"The main holdup is this quality thing," Stewart said. "Guys are shopping around for a deal that they can accept and live with."

Samples have been graded and there is room in elevators, he said.

Bright spots on the crop side include record canola yields and good prices, as well as steady lentil prices.

"Lentil production per acre fell off, but there were a lot more acres seeded," Stewart said.

"The cereals, the return per acre won't be as good, but for both pulses and canola the returns are quite good."

The calf price rally in late fall was the year's highlight for beef production. Prices are lower than some would like but still historically strong.

The discovery of bovine tuberculosis in an Alberta herd with ties to Saskatchewan was a blow. Five premises on three operations in

Saskatchewan were affected by the resulting quarantine.

Stewart said the background work for an AgriRecovery payment was done, but the province has yet to decide if it will follow Alberta in offering assistance to affected producers for extraordinary costs while they can't deliver animals to market.

"We'll do our level best to look after them as well as the Alberta operations are dealt with," he said.

Meanwhile, the hog industry hopes for better days ahead and a price rally by spring.

"Hog prices have suffered through the summer and fall, and they're at a level now where profitability is pretty marginal," Stewart said.

As well, all farmers are keeping an eye on the sky over the next couple of months.

The recent Water Security Agency forecast that the province could be in for a wet spring and flooding causes concern for everyone.

Stewart said flooding could be a serious issue, particularly in east-central Saskatchewan, where he said farmers are facing a triple whammy.

"There's already substantial



Saskatchewan Agriculture Minister Lyle Stewart participates in a debate during last year's provincial election. The minister hopes this year isn't the roller-coaster ride that the province's farmers faced in 2016. | FILE PHOTO

snowfall in some areas up there, and the ground was absolutely saturated when it froze up, and there's crop out in that area as well."

Also on the horizon for 2017:

- Carbon tax — Saskatchewan remains strongly opposed to the imposition of a tax that it says will hurt its agriculture, oil and gas and manufacturing sectors.

"We export 95 percent, roughly, of what we produce in agricultural commodities, and we have to sell it into world markets that don't care one way or another whether we have a carbon tax," Stewart said.

The province has estimated that a tax of \$50 per tonne would cost a grain farmer \$10 to \$12 an acre.

- Next agricultural policy framework — Ministers will meet in

Newfoundland and Labrador in July to sign the next five-year deal. The province is still consulting with producers as it formulates its position.

"I don't know if we're going to get AgriStability strengthened much or not," Stewart said, referring to the business risk management program that most agree must be improved to offer true benefits.

"We understand the federal pot of money isn't going to be any bigger, so to enhance one program we have to take from someplace else, basically," he said.

"That tells me that after the dealing's done, there may not be a whole lot of change."

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THE YEAR AHEAD

Carbon tax, Bill 6 priorities for Alberta ag minister

Ensuring support for ranchers affected by the bovine tuberculosis quarantine is also a concern for Oneil Carlier

BY BARB GLEN
LETHBRIDGE BUREAU

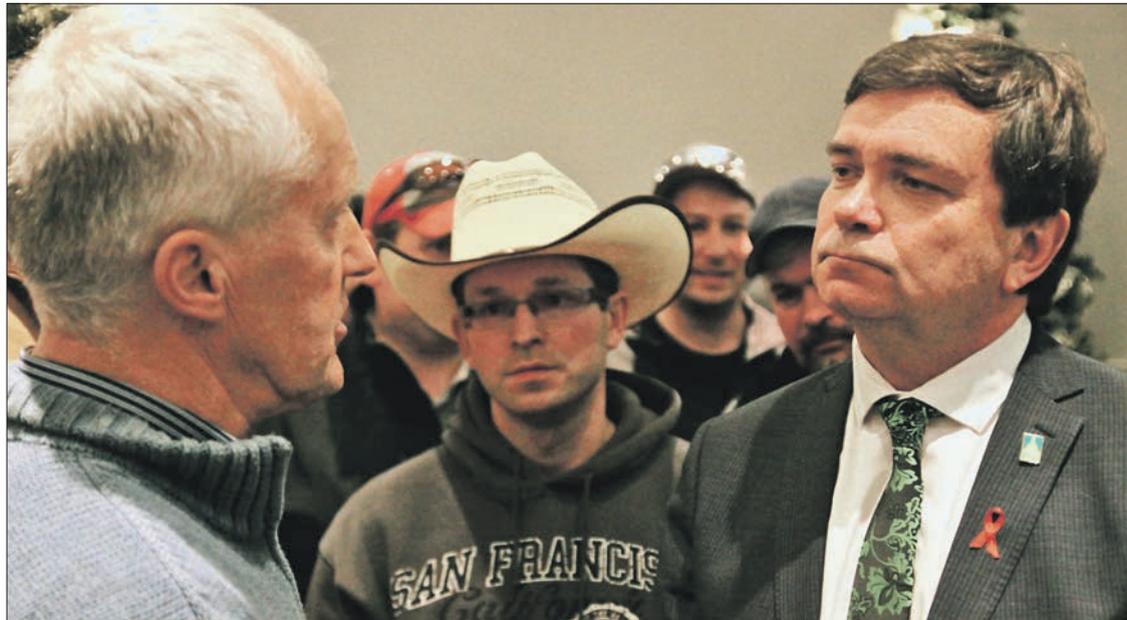
Rural angst over provincial farm safety legislation and the carbon levy and worries about a bovine tuberculosis outbreak were the highlights, or perhaps the lowlights, of Alberta Agriculture Minister Oneil Carlier's portfolio last year.

In a year-end interview, Carlier said his government expects to prepare a final draft this spring of recommendations from the six consulting groups tasked with working out details of the Enhanced Protection for Farm and Ranch Workers Act, previously known as Bill 6.

"We're hoping to get a final draft of recommendations, if you will, by early spring," said Carlier.

"We don't want to drag it out too far into what would be the busiest season for most folks, calving season, seeding, that kind of thing, so we're hoping to have it out before that season ... for a final opportunity for folks, whether they're technical working groups, Ag Coalition people or even the general public to have a look at it. That was a commitment we made early on."

Carlier said most of the working groups have made their recommendations to government, but the two involving Occupational



Alberta Agriculture Minister Oneil Carlier, right, talked with producers in late 2015 during a meeting about the government's controversial farm safety legislation. Carlier hopes the final details of the legislation will be introduced this spring. | FILE PHOTO

Health and Safety have yet to file.

The OH & S aspects are considered to be the most complex parts of the new legislation.

"I'm quite happy, quite proud and pleased with the work these people are doing: the employers, the worker representatives, the chairs, the department."

Various members of the Ag Coalition, which is a diverse group

of organizations formed to ensure farmers' views were represented in discussions, voiced concerns that the government may not accept the recommendations put forward.

Carlier acknowledged that the consultation groups did not reach consensus on all points.

As well, the latter months of 2016 saw several rallies organized

against the provincial carbon levy, which took effect Jan. 1.

Carlier said farmers and ranchers can apply for funding through government programs for use on projects to increase their energy efficiency, and those programs have been well subscribed.

"I think a lot of producers, I would say most producers, are always taking steps to improve their efficien-

cies," he said.

Everyone wants to do their fair share on helping the environment, but there's an economic benefit as well to find those efficiencies."

Carlier said concerns that the levy will increase input costs are legitimate but noted funds collected will go back into the provincial economy. Some sectors will feel the levy's effects more than others.

"That would include greenhouses, intensive livestock operations, irrigation perhaps," said Carlier, so the government has designed programs to help those operators improve their energy efficiency.

On Dec. 21, Carlier visited ranchers affected by a bovine tuberculosis quarantine in southeastern Alberta.

The discovery of one cow with the disease, followed by confirmation in five other animals, led the Canadian Food Inspection Agency to undertake a major trace-out and impose quarantine on about 26,000 cattle in 45 herds.

That has prevented many ranchers from moving or selling their cattle as they would usually do in the fall, resulting in financial hardship.

Carlier said he has heard praise about government response to the crisis.

CONTINUED ON NEXT PAGE >>

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“The timing was bad, but I am happy with the quickness of the response and hearing from folks ... including the Alberta Beef Producers, even though it was a gloomy time of year that they found this, it was a real bright spot in the response that did happen.”

The province put up 40 percent of the \$16.7 million announced by the federal government to assist ranchers during the quarantine and trace-out process.

“My understanding from CFIA is

they feel that will be enough, that the worst for sure is over,” said Carlier.

As for the extended harvest of 2016, Carlier said his own constituency of Whitecourt–Ste. Anne was among the hardest hit, along with several others in central Alberta.

He pointed to Agriculture Financial Services Corp. programs as a way of helping farmers weather the problem.

“Thank gosh that most producers are well subscribed to some of those insurance products. While nobody grows a crop just for insur-

I’m encouraged by this Liberal federal government that they are looking to reinvest into research, reinvest into their research stations ... which is good news.

CARLIER
ALBERTA AG MINISTER

ance, I’m glad that AFSC continues to provide those effective insurance products.”

The counties of Brazeau and Lac Ste Anne declared states of agricultural emergency this fall, which Carlier said raised the profile of the harvest situation.

He has also discussed agricultural issues with federal Agriculture Lawrence MacAulay on several occasions and said he likes the federal commitment on research funding.

“I’m encouraged by this Liberal federal government that they are looking to reinvest into research, reinvest into their research stations ... which is good news,” Carlier said.

“Agriculture in this country and in Alberta has always progressed because of the research we’ve done around new seed varieties, around new chemicals to add to further our production.”

What’s to come for agriculture and the minister in 2017? Carlier said there will be more discussions on the next national agricultural safety net program. As well, he said he plans to seek further value-added opportunities for the agricultural sector.

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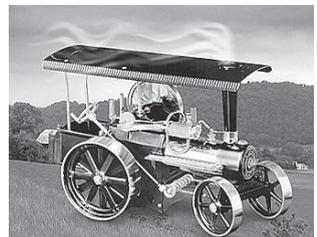
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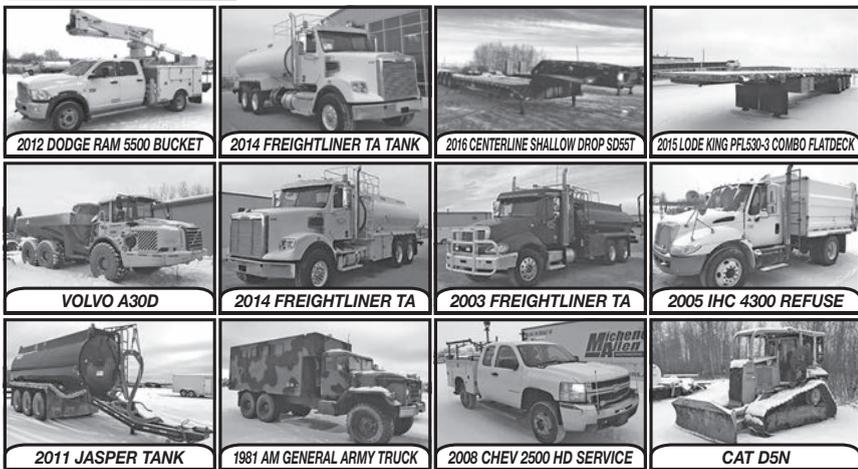
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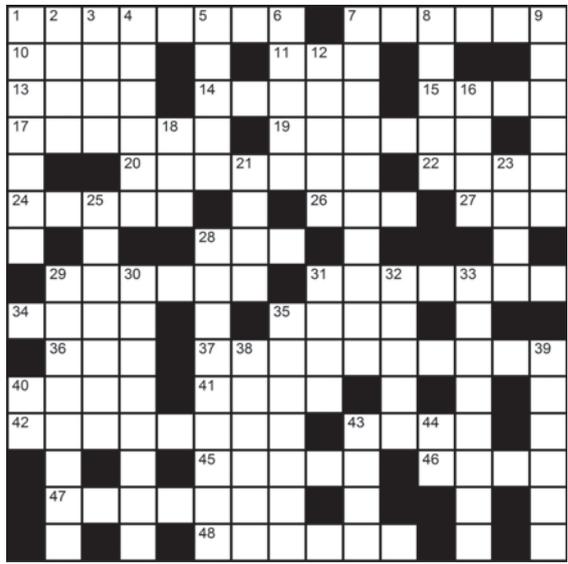
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Entertainment Crossword by Walter D. Feener



- ACROSS**
- Dinner for ____
 - ____ Avenue (1950 musical film)
 - Actress DuVall
 - ____ Stay (2 words)
 - He played the werewolf in *Werewolf of London*
 - Wolverine's alias in *X-Men*
 - Hermie's best friend in *Summer of '42*
 - Love ____ You Do (song from the *Fifty Shades of Grey* soundtrack) (2 words)
 - Agent 47, for one
 - She had a "Feast" in a 1987 Danish film
 - 1984 Kyle MacLachlan film
 - He played Sgt. Warren Reed in *RoboCop*
 - 48 ____
 - Film starring Lauren Cohan and Rupert Evans (with *The*)
 - ____ Girl Friday
 - She played Lowe's mother in *Class*
 - Film starring Jesse Bradford, Erika Christensen, and Shiri Appleby
 - The Mod Squad* character
 - Name of B.J.'s pet chimpanzee
 - Two-Lane Blacktop* character
 - 1947 film starring John Ireland and Sheila Ryan
 - 2011 Chris Hemsworth film
 - Swenson who played Gretchen on *Benson*
 - ____ Cowboys (1979 made-for-television film starring Jerry Reed and Tom Selleck)
 - Actress Dietrich
 - Cafe Tropical waitress on *Schitt's Creek*
 - He was nominated for an Academy Award for Best Supporting Actor for his performance in *Closer*
 - ____ and Son (English sitcom)
 - He played Arthur Pettibone on *Road to Avonlea*
- DOWN**
- He played Henry in *Cheaper by the Dozen* and *Cheaper by the Dozen 2*
 - Without a ____
 - From ____
 - Where the TV series *Summerland* was filmed
 - Sheriff Buck's son on *American Gothic*
 - Out of ____
 - The Huntsman*: ____ (2 words)
 - She played Cathy Simms, Pam's fill-in while on maternity leave on *The Office*
 - Atwell who plays Agent Carter on TV
 - Ford of *Murphy Brown*
 - Pollard who played an eccentric inventor in the 1923 short silent movie comedy *It's a Gift*
 - Keanu Reeves' character in *47 Ronin*
 - Last ____ to Brooklyn
 - 2003 Emmy Rossum film
 - Aaron who played Michael Oher in *The Blind Side*
 - ____ Award (retired Golden Globe Award)
 - 1930 film nominated for an Academy Award for Best Picture (with *The*) (2 words)
 - Film starring Alicia Silverstone and Woody Harrelson
 - Ward of *Sisters*
 - Singleton who played "T-Dog" on *The Walking Dead*
 - Not ____ (2 words)
 - Biographical film about the life of artist Margaret Keane (2 words)
 - Actor Tanner
 - Mark Wahlberg's brother
 - Initials of the ex-husband of Mimi Rogers
 - The Hunchback of Notre ____*
 - ____ Escape

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Misc. Trailers 1515

24' GOOSENECK 3-8,000 lb. axles, \$7890; Bumper pull tandem lowboys: 18', 16,000 lbs., \$4750; 16', 10,000 lbs., \$3390; 16', 7000 lbs., \$2975, 8000 lb Skidsteer, \$1990 Factory direct. 1-888-792-6283. www.monarchtrailers.com

TRAILERS: BELLY DUMP end dump, vans, flatdecks, lowbed, tankers, dropdecks, beavertails. 306-563-8765, Canora, SK.

Misc. Trailers 1515

100 MISC. SEMI TRAILER FLATDECKS/stepdecks, \$2,500 to \$30,000. 20 heavy lowbeds, \$10,000 to \$70,000. Tankers, end dumps. 306-222-2413, Saskatoon, SK. www.traileraguy.ca

ALL ALUMINUM TRAILERS: tridems and Super B Timpte grain trailers. Call Maxim Truck & Trailer, 1-888-986-2946 or see www.Maximinc.Com

PRECISION TRAILERS: Gooseneck and bumper hitch. You've seen the rest, now own the best. Hoffart Services, Odessa, SK. 306-957-2033 www.precisiontrailers.ca

1997 LODE-KING 48' Hi-boy flat deck, alum. combo, air ride, 12 winches on each side, \$6000. 204-325-8019, Winkler, MB.

2015 GERMANIC 31' tridem end dump, lift axles, \$42,000; 2005 Trailtech 27' 5th wheel trailer, 20,000 axles w/loading ramps and self contained 545 Ferrari crane unit, \$17,000; 1980 Muv-All 48' equipment trailer, winch, hyd. beavertail, 25 ton capacity, \$24,000; 1998 Loadline 28' end dump, tandem, spring ride, \$22,000; 1998 Loadline 29' end dump, tandem, air ride, \$25,000. Can-Am Truck Export Ltd., 1-800-938-3323, Delisle, SK. DL #910420.

53' AND 48' tridem, tandem stepdecks, w/wo sprayer cradles; 53', 48' and 28' tridem, tandem highboys, all steel and combos. **Super B Highboys;** Tandem and S/A converter w/drop hitch; 53'-28' van trailers and Kentucky moving van; Pintle hitch tandem flatdeck; Aluminum tankers. Ron Brown Imp. 306-493-9393, Delisle, SK. DL #905231. www.rbisk.ca

BELLY DUMP GRAVEL TRAILER, tandem axle, load close w/air, Sask. safetied, \$15,000. 306-940-6835, Prince Albert, SK.

TOPGUN TRAILER SALES "For those who demand the best." **PRECISION AND AGASSIZ TRAILERS** (flatdecks, end dumps, enclosed cargo). 1-855-255-0199, Moose Jaw, SK. www.topguntrailersales.ca

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BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.



KRAMER TRAILER SALES- Your Norbert's and Duralite stock trailer headquarters. For inventory and prices, please visit www.kramerauction.com 306-445-5000.



2015 DAKOTA ALUM. seed tender with SS conveyor system, self-contained w/remotes controls, or can be run off truck wet kit, exc. cond., fresh MB safety. 45'Lx102"W, loaded trailer, air ride, alum. outside rims, 11R24.5, \$107,000. Located at Kamsack, SK. Call 204-526-0748 or 204-526-0321.

COMPONENTS FOR TRAILERS. Shipping daily across the prairies. Free freight. See "The Book 2013" page 195. DL Parts For Trailers, 1-877-529-2239, www.dlparts.ca

TRUCKS

NEWEST TO OLDEST 1595

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SUMMER CLEAROUT Sales Event. Up to \$16,914 in Savings on select models, OAC. 1-866-944-9024. www.dodgecityauto.com DL #911673.

FOUR WHEEL DRIVE 1670



2006 CHEV 2500 Silverado 4x4, reg. cab, 8.1 V8, 6 spd. std. trans, ready to work, only 100,000 kms, new clutch, some hail but cows and trailer won't care, \$11,900. Cam-Don Motors Ltd., 306-237-4212.

2010 DODGE RAM Laramie, 4x4, dsl., 6.7L auto, 2 tone gray, orig. owner, only 97,000 kms, \$39,500 OBO. 403-485-0390, Milo AB

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GRAIN TRUCKS 1675

1976 HEAVY 6500 GMC with 400 bu. box and roll tarp, new hoist, asking \$12,000 OBO. 306-778-3749, Swift Current, SK.



1998 KENWORTH T800, new grain box, Detroit engine, 60 Series, 10 spd. trans., \$48,000. 204-325-5677, Winkler, MB.

2002 IH 2600 w/IH 320 HP eng., 10 spd., 221,000 kms, new 20' BH&T, exc. rubber, vg, \$49,500; 2009 Mack CH613, MP8 Mack eng., 430 HP, 10 spd., AutoShift, 463,000 kms, exc. shape, new 20' box, A/T/C, \$73,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' BH&T, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' BH&T, alum. wheels, 1.4 million kms, has bearing roll dome, nice shape, \$69,500; 2007 Kenworth T600, C13 Cat, 425 HP, 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; 1996 Midland 24' tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; 1985 Ford L9000, Cummins, 10 spd., 20' BH&T that's been totally rebuilt, new paint, exc. tires, \$28,500; 1999 IH 4700 S/A w/17' steel flatdeck, 230,000 kms, IH dsl., 10 spd., good tires, \$19,500; 1998 Freightliner tractor, C60 Detroit, 430 HP, 13 spd., alum. wheels, sleeper, good rubber, \$17,500; 2005 IH 9200 tractor, ISX Cummins, 430 HP, 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks Sask safetied. Trades considered. All reasonable offers considered. Call Merv at 306-276-7518 res., 306-767-2616, cell, Arborfield SK. DL #906768.



2002 KENWORTH T800 w/new grain box, rebuilt engine and turbo with warranty. \$68,000. 204-325-5677, Winkler, MB.

2004 PETERBILT 330, tandem axle, C&C, long WB, Cat dsl., 10 spd trans, AC, low miles, alum. wheels, \$26,900, w/new B&H \$48,900. K&L Equipment and Auto. Ph Ladimer, 306-795-7779 Ituna. DL #910885

2008 WESTERN STAR, 10 spd. Eaton AutoShift, new 20' BH&T; 2008 tandem IH 7600, Cummins, 10 spd., new BH&T; 2004 Pete 330 S/A, Cat Allison auto. w/new 16' BH&T. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

AUTOSHIFT TRUCKS AVAILABLE: Boxed tandems and tractor units. Contact David 306-887-2094, 306-864-7055, Kinistino, SK. DL #327784. www.davidtrucks.com

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GRAVEL TRUCKS 1676

2004 MACK TANDEM AXLE dump truck, fresh AB. safety, low kms, very clean, good condition. Call 780-983-0936, Clyde, AB.

NEW CANUCK GRAVEL TRAILERS: 1999 Arne's tridem end dump, clean; 1996 IH 9400, 60 Detroit, 10 spd, 16' gravel box, alum rims. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

GRAVEL TRUCKS 1676



2000 VOLVO WG64F, 14' gravel box, Volvo VED12 345 HP, 10 spd, 18,500 frts, 46 rears, 4-Way lock up, 495,000 kms, \$19,900. Norm 204-761-7797 Brandon MB

Classifieds
SELL IT FAST! 1-800-667-7770

2012 IHC TRANSSTAR, low pro, Max 300 HP diesel Allison auto trans, single axle, loaded cab, 13' Armstrong landscape dump, \$39,900.; 2003 GMC C8500 tandem, automatic, with 15' box, low miles, \$34,900. K&L Equipment and Auto. Ladimer, 306-795-7779, Ituna DL #910885

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SEMI TRUCKS 1677

1980 GMC ASTRO, cabover, 8V-92 Detroit, 13 spd, runs well, \$4000 OBO. Camrose, AB. 780-878-1550. joelduggan@hotmail.com

1989 IH EAGLE, 425 CAT, 3406 engine, 5th wheel, 24.5 alum. buds, white, \$16,500. 306-960-3000, St. Louis, SK.

2001 KENWORTH W900, C15 Cat 6NZ with bunk, \$42,000. 306-452-8081, Redvers, SK



2006 FREIGHTLINER S/A daycab, 455 HP Detroit, 10 spd., fresh safety, 470,000 kms, very good, \$24,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2006 FREIGHTLINER tandem axle, daycab, Mercedes power, auto trans, nice clean safetied tractor, \$19,500. 780-983-0936, Clyde, AB.



2009 VOLVO VNL430, No DEF, Volvo D16, 535 HP 18 spd., 4-way locks, 290,000 kms, mint condition, farmer owned. \$72,900. Westlock, AB. 780-206-1234.



2010 IHC PROSTAR, 500 HP Cummins, 18 spd., 46 rears lockers, Jakes, fresh safety, new rubber, \$49,900. Cam-Don Motors, 306-237-4212, Perdue, SK.



2012 MACK PINNACLE CXU613, 34" flat-top sleeper, removable roof fairing, Mack MP8, 455 HP, Eaton 13 spd trans, safetied, \$49,900. Norm 204-761-7797 Brandon MB



2012 PETE 388, 70" sleeper, "Crate Drop In" ISX 565 HP AT 750,000 kms, 18 spd, 12 fronts, 40 rears, 3.70, lots of chrome, \$89,900. Norm 204-761-7797, Brandon



2013 PROSTAR IH day cab truck with in-dash GPS, 500 HP Maxx force 18 spd., 46,000 rears, 3.91 ratio, 228" WB, approx. 129,000 kms, 11R22.5 tires, c/w/wet kit for only \$65,000. New MB. safety. 204-743-2324, Cypress River, MB.

SEMI TRUCKS 1677



2013 VOLVO 630 D13, I-shift automatic, warranty, heavy spec, full lockers, new head and injectors, engine & cab heaters, PTO fluid pump w/remote, \$85,000 OBO. 306-515-1461, Lemberg, SK.

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ONLINE ONLY UNRESERVED AUCTION: Jan 25- 31, 2017. www.championassets.ca 2008 Peterbilt 367, 550 ISX, 18 spd, 46 rears, 880,000K. 306-865-7660. #334832

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T800 KENWORTHS ALL HEAVY SPECS 18 spd., full lockers, 2008. Also daycab 2009, new trans, and clutch; 2010 Pete 378, IFX Cummins, 18 spd; 2009 Kenworth T660, new ISX Cummins, tranny, and clutch, 18 spd., lockers; 2008 IH 9900 daycab, 260,000 kms., ISX Cummins, 18 spd., lockers; 2007 Pete 379, daycab and bunk; 2013 IH 5900i, 42" bunk, 46 diff., 4-way lock, 18 spd., 390,000 kms; 2007 IH 9200, daycab, ISX 435, 13 spd; 1997 FLD 120, 425 Cat, 46 diffs and lockers; 1996 Kenworth T800, 475 Cat, 13 spd., rebuilt diffs and tranny. Ron Brown Implements, Delisle, SK., 306-493-9393. DL #905231 www.rbisk.ca

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

SPECIALIZED TRUCKS 1680

2014 INTERNATIONAL TERRA STAR 4WD, 105,370 kms, Hiab 7400 lb. crane, 7' flat deck w/5th wheel, tool locker, hyd. outriggers, fresh safety, \$46,800. www.combineworld.com 1-888-278-4905.

ICHUCK TREE MOVER, new, never used, hydraulic, \$2480. www.combineworld.com 1-888-278-4905.

MUNICIPAL ROADSIDE SPRAY TRUCK 2004 Ford F550 XLT 4x4 6.0L powerstroke diesel with 200,584 kms. Includes deck mounted sprayer system w/hyd. boom; Also available Raven SCS 750 controller w/injection system and spare parts skid. Full details about the truck, spray system and parts skid can be found on our website at: www.mdwainwright.ca or you can call 780-842-4454, Wainwright, AB.

1997 MACK RD688, 100 barrel water tank, pump, etc., 400 Mack, 24.5 wheels, white, \$16,500. 306-960-3000 St. Louis SK

WINCH TRUCK, 2003 Kenworth W900, rebuilt Cat C15 6NZ, 30 ton hyd. winch, \$55,000. Knight tandem scissor neck, lowbed w/beavertails, \$22,000. Danny Spence, 306-246-4632, Speers, SK.



FULLY LOADED 2009 GMC 3500 4x4 pick-up and new DewEze bale handler. Phone Dave 403-627-2601, Pincher Creek, AB.



2010 F250, 5.4 auto., 126K, new Courtney Berg Hydra-Dec bale handler, new Cooper Discoverer ST Maxx tires, truck totally gone over in shop, \$29,995. Duchess, AB., 403-378-4331. centennial@eidnet.org

DECKS, DRY VANS, reefers and storage trailers at: www.Maximinc.Com or call Maxim Truck & Trailer, 1-888-986-2946.

2002 INTERNATIONAL 4700 sanitation truck, side load, IH 466, RH/LH drive, A/T air brakes, Haul-All receptacle, \$17,900. www.combineworld.com 1-888-278-4905

SPECIALIZED TRUCKS 1680

2007 CHEV C6500, 2 WD, Duramax dsl., 7 spd. trans, 20' flatdeck w/winch, only 152,000 kms, \$21,900. 2008 Dodge 3500, 2 WD, Hemi gas engine, auto trans, 16' flatdeck, 178,000 kms, \$16,900 OBO. 2001 STERLING 9500, tandem water truck, 4500 gal. tank, C12 Cat, 13 spd., Bowie pump, \$22,900; 1998 FREIGHTLINER FL80, tandem water truck, Allison trans, 3200 gal. water tank w/Honda GX160 pump, 293,000 kms, \$21,900. Trades considered. K&L Equipment and Auto. Ph. Ladimer, 306-795-7779, Ituna, SK. DL #910885.

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SPORT UTILITIES 1682

2009 FORD EXPLORER LTD., V8, AWD, loaded, 4 leather buckets, new winter tires, very good condition, 219,000 kms, \$14,900. Photos. 306-843-2934, Wilkie SK

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VARIOUS 1685

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WANTED: 1967-1979 F100/F150 Ford, reg. cab, shortbox, would prefer in good cond. 780-918-6816, Edmonton, AB.

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EXCELLENT FARM CATS for sale come with warranty: Komatsu, Cat, Fiat Allis. Call for more info excellent working condition. Most newer UC, rebuilt engine, and trans bush, guarded. Call for price. Can deliver. 204-743-2324, Cypress River, MB.

2011 HITACHI ZX270 LC-3 hyd. thumb excavator, 6950 hrs., 12' 6" stick, c/w Q/A bucket, very good shape, \$119,000. Call 204-325-8019, 204-362-1091, Winkler, MB.

2004 CAT D6N LGP crawler, 6-way dozer, AC, canopy, diff. steer, cargo winch, new undercarriage, 10,800 hrs., \$82,000; **2007 Komatsu PC200 LC-8** hyd. excavator w/QA cleanup bucket, 9'6" stick, aux. hyds., 12,582 hrs., new UC \$60,000; Also all kinds of buckets, various shapes and sizes 204-871-0925, MacGregor, MB.

CAT HYDRAULIC PULL SCRAPERS: 463, 435, 80 and 70, all vg condition, new conversion. Also new and used scraper tires. Can deliver. 204-793-0098, Stony Mountain, MB.

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TWO VOLVO A-30D Articulated trucks, 23.5x25 tires, 2003 and 2004, \$85,000 each. 204-795-9192, Plum Coulee, MB.

2007 ELRUS 2442 jaw crusher, \$152,000; **Ford F700** tow truck, fully equipped, \$24,900. Pro Ag Sales, 306-441-2030, anytime. North Battleford, SK.

USED PORTABLE TOILETS, mostly poly John, some good, some not so good, \$300 each, take choice. 403-680-0752.

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1972 CAT D7F, bush equipped, good cond. Phone 306-342-7509 or 306-342-4866, Medstead, SK.

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2006 HITACHI 270, good undercarriage, no thumb, 9000 hours, \$60,000. Phone 780-307-5235, Clyde, AB.

2006 LINK-BELT 210 excavator, \$60,000 work order, 6000 hours, no thumb, \$33,000. Call 780-307-5235, Clyde, AB.

CONSTRUCTION EQUIPMENT 3600



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1990 FIAT ALLIS FD 14E dozer, 24 pds, full guarded canopy with enclosed cab, 10.6 wide tilt blade, 350 hrs. on new UC warranty, \$49,000. Can deliver. Call any time, 204-743-2324, Cypress River, MB.



2006 D61 PX-15, 2405 orig. hrs., 6-way blade, 34" pds, near new UC, 155 HP exc. working cond., S/N #B41323, \$68,000. Can deliver. 204-743-2324, Cypress River.

1974 CAT D7F, 14' angle dozer, 26" pds, 3306 eng., 60% UC, vg cond., \$42,000 OBO. 204-467-2109, Stonewall, MB.

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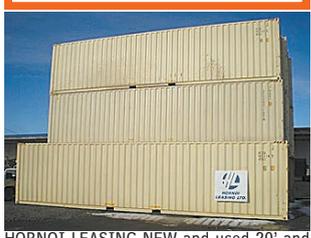
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NEW 2016 BRANDT swing away augers, 13110HP+, 4 to choose from. 2 electric and 1 hyd. swing away, 13,000 bu. per/hr. 3 augers, M13X110 HP, 1 auger, 10"x80" \$33,000 ea. Call any time, 204-743-2324, Cypress River, MB.

GRAIN BAGS/EQUIPMENT 4116

GRAIN BAG EXTRACTOR, 2013 Loftness, 10' extractor, has done about 40 bags, good condition, \$28,000 OBO. 780-878-1550, Camrose, AB.

GRAIN CARTS 4118

GRAVITY WAGONS: New 400 bu, \$7,400; 600 bu., \$12,500; 750 bu., \$18,250. Large selection of used gravity wagons, 250-750 bu. Used grain carts, 450 to 1110 bushel. View at: www.zettlerfarmequipment.com 1-866-938-8537, Portage la Prairie, MB.

GRAIN CLEANERS 4121

USED LMC GRAVITY SEPARATORS, 400 BPH and 300 BPH units available. Call LMC Canada 1-800-667-6924.

DUAL STAGE ROTARY SCREENERS and Kwik Kleen 5-7 tube. Call 204-857-8403, Portage la Prairie, MB. or visit online: www.zettlerfarmequipment.com

GSI GRAIN HANDLING Systems. Call Wentworth Ag 1-877-655-9996 ask about our specials. www.grainequipment.com Email: wentworth@grainequipment.com

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GRAIN CLEANER ACCESSORIES. Warehouse Clearance. 4 new #3 indent shells, Two #10, and two #32, \$300 ea.; New 233 sheets 3'x10' screen material, all sizes, \$3.50 sq. ft. selling as one lot only. New screen on frame for Clipper air screen, 22-54x34" and 22-54x26", \$2200 for the lot, set up for cereals. Call 204-782-6937, Headingly, MB. dsevers@mymts.net

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CT1100 VERTEC GRAIN DRYER w/new roof, \$25,000. 2 overhead garage doors, 24x18", \$2,000 ea. 204-274-2502 ext. 225.

GRAIN DRYERS 4124



1997 IBEC 24', 9 tier, dual fuel, PLC and M2 micro processor with preheat tier and dual direction discharge, \$70,000. Call 780-990-8198, Fort Saskatchewan, AB.

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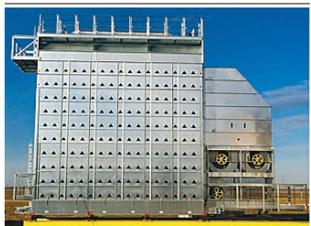
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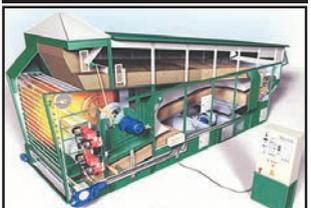


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H/H VARIOUS 4151

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2007 7010 Case/IH, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000; 2009 7088 w/2016 PU header, \$180,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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2011 CLAAS LEXION 760, 700 sep. hrs., fully loaded, \$265,000 CAD OBO; 2010 Lexion 590, fully loaded, 500 sep. hrs., \$220,000 CAD OBO. All exc. cond., used only in small grains; 2000 Lexion 480, \$27,000 CAD OBO. Call 218-779-1710, Bottineau, ND.

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2013 JOHN DEERE T670, w/615P, 938 eng. hrs., 700 sep. hrs., Stock #60974, \$272,614. 204-773-2149, Russell, MB. www.maplefarm.com

FORD/NH 4172

2009 NH 9070, 1793/1474 hrs, Intelli-View II display, Y&M, remote sieve adjust, elec. stonetrap, duals, diff. lock, long auger, PSD, deluxe chopper, chaff spreader, c/w 76-C 14' Swathmaster PU plus 2003 NH 94-C 36' draper header, fore/aft, split PU reel, single knife drive, gauge wheels, transport, all stored inside, \$200,000 OBO. Call 780-608-9290, Strome, AB.

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2011 JOHN DEERE 9770S, w/615, 2246 eng. hrs., 1671 sep. hrs., Stock #61079, \$215,807. Call 306-272-3345, Foam Lake, SK. www.maplefarm.com

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2009 JOHN DEERE 9770STS, w/615P, 1542 eng. hrs., 1230 sep. hrs., Stock #60998, \$209,021. 306-547-2007, Preeceville, SK. www.maplefarm.com

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2014 JOHN DEERE S690, 1100 eng. hrs., 750 sep. hrs., Stock #9368, \$442,100. Call 306-773-9351, Swift Current, SK. www.maplefarm.com

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2009 JD 9770, only 700 sep. hrs., 900 eng., 4WD, straddle duals, loaded, price negotiable. 218-779-1710, Bottineau, ND.

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COMBINE HEADERS 4199



2011 MD D60-D, 45', DKD, AHHC, hyd tilt, transport...\$34,800

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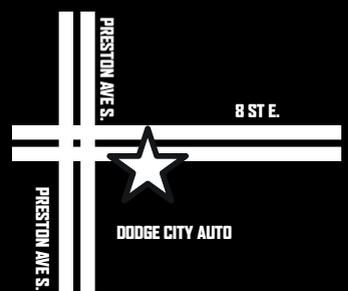


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Stock #V423085

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 Tandem Axle Grain Truck, MaxxForce 13 engine (450/450) HP, Eaton Fuller Ultra Shift transmission (13 speed), Air brakes, 249285km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 3-Way rear lockup, A/C. Brandon, MB



\$139,900

Stock #7084-16

2016 International 4400 6x4
 Tandem Axle Grain Truck, N9 engine (330) HP, Allison (Auto) transmission (6 speed), Air brakes, 89km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, 20 ft. Cande grain body/tarp/electric controls. Brandon, MB



\$69,900

Stock #7038-09A

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 Tandem Axle Grain Truck, Detroit Diesel engine (455/475) HP, Eaton Fuller D/O transmission (13 speed), Air brakes, 838546km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C. Regina, SK



\$142,900

Stock #6761-16

2016 International 4400 6x4
 Tandem Axle Grain Truck, N9 engine (330) HP, Allison (Auto) transmission (6 speed), Air brakes, 3524km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, 20 ft. Cande grain body/tarp/electric controls. Prince Albert, SK



\$75,250

Stock #V423093

2012 International ProStar
 Tandem Axle Grain Truck, MaxxForce 13 engine (450) HP, Eaton Fuller Ultra Shift transmission (13 speed), Air brakes, 1030896km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 3-Way rear lockup, A/C, Brand new Box Hoist and PTO. Regina, SK



\$145,900

Stock #: 9654-16

2016 International 4400 6x4
 Tandem Axle Grain Truck, N9 engine (330) HP, Allison (Auto) transmission (6 speed), Air brakes, 2255km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C, 20 ft. Cande grain body/tarp/electric controls. Regina, SK



\$47,900 USD

Stock #FB148587

2015 Timpte Grain Hopper
 Grain, 3 hopper, Air suspension, Tridem axle, Aluminum rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hopper w/3rd Hopper Black w/Interior Access steps, Width: 102in, Length: 45ft. Edmonton, AB



\$13,500

Stock #XE008416U

1999 Trojan Tri Wagon
 Gravel, suspension, Tridem axle, Aluminum rims, Steel floor, 2 x 12 planks, Tarp: Michel's Flip Black, Width: 102in, Length: 34ft. Calgary, AB



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Stock #HB156936

2017 Timpte Grain Hopper
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2013 GLEANER S77



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4200 Header, STK #55905

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 <p>JD S670 2012 w/615 P, 1149 hrs, 714 sep hrs Stk #10281 (NB) Cash Price \$265,900 S/A PMT</p>	 <p>JD S670 2012 1560 hrs, Stk #9822 (KV) Cash Price \$285,500 S/A PMT</p>	 <p>SOLD JD S670 2013 735 hrs 518 sep hrs Stk #9802 (SC) Cash Price \$351,200 S/A PMT</p>	 <p>JD S670 2013 987 hrs Stk #9803 (SC) Cash Price \$325,900 S/A PMT</p>	 <p>JD S690 2013 w/615 P 877 hrs 611 sep hrs Stk #10071 (KV) Cash Price \$420,000 S/A PMT</p>
 <p>JD S690 2013 w/615P 998 hrs 713 sep hrs Stk #10070 (HU) Cash Price \$415,000 S/A PMT</p>	 <p>JD S690 2013 w/615P 1244 hrs 970 sep hrs Stk #10090 (HU) Cash Price \$399,000 S/A PMT</p>	 <p>JD S690 2013 w/615P 1409 hrs 1035 sep hrs Stk #10089 (HU) Cash Price \$395,000 S/A PMT</p>	 <p>JD S690 2013 w/615 1378 hrs 971 sep hrs Stk #58408 (W) Cash Price \$375,000 S/A PMT</p>	 <p>JD S690 2013 w/615 1534 hrs 1057 sep hrs Stk #58463 (M) Cash Price \$379,000 S/A PMT</p>
 <p>SOLD JD S690 2015 w/615P 448 hrs 355 sep hrs Stk #10081 (HU) Cash Price \$525,000 S/A PMT</p>	 <p>JD S690 2015 w/615P 403 hrs 320 sep hrs Stk #10092 (HU) Cash Price \$518,500 S/A PMT</p>	 <p>JD S690 2015 w/615P 384 hrs 303 sep hrs Stk #10085 (HU) Cash Price \$518,500 S/A PMT</p>	 <p>JD S690 2015 w/615P 492 hrs 387 sep hrs Stk #10086 (HU) Cash Price \$515,000 S/A PMT</p>	 <p>JD 9570R 2015 353 hrs Stk #74324 (HU) Cash Price \$486,900 S/A PMT</p>

SEEDING EQUIPMENT

- John Deere 1895, 2008, 43'x10 TBT, Stk #60426..... **\$111,021 (W)**
- John Deere 1870, 2014, w/1910 **Starting at \$215,009 (KV)**
- John Deere 1870, 2013, w/550 BU 1910 - AS201481, Stk #3282 **\$236,900 (KD)**
- Bourgault 6700ST, 2013, Stk #60186 **\$141,757 (Y)**
- Bourgault 3310, 2011, 65', w/6450, Stk #60218 **\$173,013 (B)**
- Bourgault 3220, 2015, 76' w/6550 **Starting at \$231,507 (KD)**
- Case IH 3430, 2012, Stk #60793 **\$59,007 (B)**
- Flexi-Coil 4350, 2010, Stk #60355 **\$52,507 (B)**
- Flexi-Coil 5000, 2002, w/2340, Stk #3289 **\$31,600 (KD)**

COMBINES

- John Deere S690, 2012-2015, 750 sep hrs **Starting at \$342,100 (SC)**
- John Deere S680, 2012-2015, 600 sep hrs. **Starting at \$336,800 (SC)**
- John Deere S670, 2013-2014, 500 sep hrs. **Starting at \$286,300 (SC)**
- John Deere T670, 2013, w/ 615P, 700 sep hrs, Stk #60974 **\$272,614 (Y)**
- John Deere 9870STS, 2008-2011, 1302 sep hrs. **Starting at \$199,900 (K)**
- John Deere 9860STS, 2007, w/615P, 1450 sep hrs., Stk #10316 **\$164,500 (KD)**
- John Deere 9770STS, 2008-2011, 750 sep hrs. **Starting at \$113,200 (SC)**
- John Deere 9660STS, 2005, 2650 sep hrs, Stk #9430 **\$78,900 (MC)**
- John Deere 9660STS, 2004, 2575 sep hrs, Stk #111207 **\$68,400 (SC)**
- John Deere 9660, 2005, 2204 sep hrs, Stk #9437 **\$78,900 (MC)**
- John Deere 9650STS, 2002, w/ 914, 2594 sep hrs, Stk #61317.. **\$73,518 (R)**
- Case IH 9240, 2015, 476 sep hrs. Stk #9402 **\$428,000 (SC)**
- Case IH 9230, 2014, w/3016, 387 sep hrs, Stk #10318 **\$365,500 (NB)**
- Case IH 9230, 2013, w/ 3016, 650 sep hrs, Stk #60771 **\$367,514 (Y)**
- Case IH 8230, 2012, w/12' 1371, 1040 sep hrs, Stk #9401 **\$277,100 (SC)**

HEADERS

- John Deere 640FD, 2012-2015 **Starting at \$57,900 (LD)**

- John Deere 936D, 2000-2008 **Starting at \$29,000 (NB)**
- John Deere 635F, 2009-2016 **Starting at \$31,060 (SC)**
- John Deere 635D, 2010-2015 **Starting at \$59,007 (P)**
- John Deere 630F, 2007 **Starting at \$21,100 (SC)**
- Shelbourne XCV42, 2015, 42', Stk #58416 **\$136,800 (KD)**
- MacDon FD75, 2014, 45', Stk #59333 **\$87,200 (UN)**
- MacDon FD75, 2013, 45', Stk #59329 **\$60,235 (UN)**
- MacDon FD70, 2012, Stk #58370 **\$60,500 (SC)**
- MacDon FD70, 2011, 45', Stk #59325 **\$59,800 (NB)**
- MacDon D65, 2013, 40', Stk #58491 **\$68,400 (MC)**
- MacDon D60, 2012, 40', Stk #60522 **\$60,007 (M)**
- MacDon D60, 2010, 40', Stk #61143 **\$47,259 (R)**
- MacDon D60, 2008, 40 ft Stk #61593 **\$44,000 (M)**
- Honey Bee WS30, 2011, Stk #77384 **\$31,100 (SC)**
- Honey Bee SP36, 2009, Stk #59389 **\$33,200 (HU)**
- Honey Bee SP36, 2000, Stk #59334 **\$12,700 (KD)**
- Honey Bee SP30, 2007, Stk #59328 **\$20,500 (UN)**
- Honey Bee ST30S, 2003, 2222157 Stk #60949 **\$24,321 (P)**

SWATHERS

- John Deere W155, 2016, w/ 435D, 250 meter hrs., Stk #61839 **\$169,000 (R)**
- John Deere W150, 2015, w/ 440D, 402 meter hrs., 250 sep hrs. Stk #58810 **\$168,500 (R)**
- MacDon M205, 2012, w/ 35' D60, 794 meter hrs., Stk #111633 **\$121,100 (NB)**
- MacDon M155, 2012, w/ D60 used, 840 meter hrs., Stk #61887 **\$102,300 (P)**
- MacDon M150, 2011, w/ D60 used, 1280 meter hrs., Stk #61889 **\$99,300 (P)**

TRACTORS

- John Deere 9620RX, 2016, 420 meter hrs., Stk #61794 **\$652,600**
- John Deere 9620RX, 2016, 270 meter hrs., Stk #61796 **\$663,000**
- John Deere 9620R, 2015, 1112 meter hrs., Stk #58654 **\$557,900 (R)**

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SOLD
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391 hrs
\$525,700 Stk #74313 (KD)
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SOLD
JD 9570R 2015
490 hrs
\$512,700 Stk #74322 (SC)
Cash Price \$475,900 \$27,700 S/A PMT

SOLD
JD 9570R 2015
530 hrs
\$513,700 Stk #74314 (HU)
Cash Price \$475,900 \$27,700 S/A PMT

SOLD
JD 9570R 2015
570 hrs
\$509,500 Stk #74315 (HU)
Cash Price \$469,900 \$27,400 S/A PMT

JD 9570R 2015
601 hrs
\$513,700 Stk #74312 (KD)
Cash Price \$469,900 \$27,400 S/A PMT

SOLD
JD 4730 2010
1050 hrs
\$247,400 Stk #71290 (SC)
Cash Price \$215,900 \$13,700 S/A PMT

JD 4730 2014
1043 hrs
\$291,200 Stk #71480 (NB)
Cash Price \$265,500 \$16,800 S/A PMT

JD 4830 2012
817 hrs
\$306,500 Stk #71589 (HU)
Cash Price \$275,900 \$17,900 S/A PMT

JD 4830 2013
1183 hrs
\$284,200 Stk #71288 (SC)
Cash Price \$263,500 \$16,800 S/A PMT

JD 4940 2012
1797 hrs
\$314,300 Stk #71593 (HU)
Cash Price \$280,000 \$18,100 S/A PMT

JD 4940 2013
1134 hrs
\$368,400 Stk #71312 (SC)
Cash Price \$325,500 \$20,600 S/A PMT

JD 4940 2014
763 hrs
\$407,700 Stk #71484 (NB)
Cash Price \$365,900 \$23,100 S/A PMT

JD R4045 2015
582 hrs
\$505,300 Stk #71295 (KD)
Cash Price \$469,500 \$29,700 S/A PMT

JD R4045 2015
787 hrs
\$466,548 Stk #58607 (B)
Cash Price \$435,250 \$27,500 S/A PMT

JD R4045 2015
w/Hawkeye 907 hrs
\$475,760 Stk #58608 (Y)
Cash Price \$449,500 \$27,200 S/A PMT

- John Deere 9620R, 2015, 960 meter hrs., Stk #60712 \$498,007 (B)
- John Deere 9570RT, 2015, 995 meter hrs., Stk #74077 \$547,100 (UN)
- John Deere 9560R, 2013, 59 **SOLD** hrs., Stk #74331 \$434,200 (KV)
- John Deere 9560R, 2012, 1715 meter hrs., Stk #60442 \$330,007 (Y)
- John Deere 9530, 2009, 2550 **SOLD** hrs., Stk #61611 \$226,500 (B)
- John Deere 9520R, 2015, 500 meter hrs., Stk #61431 \$416,007 (FL)
- John Deere 9510R, 2014, 2363 meter hrs., Stk #59283 \$356,560 (FL)
- John Deere 9470R, 2015, 707 meter hrs., Stk #59286 \$439,615 (P)
- John Deere 9420R, 2015, 385 meter hrs., Stk #58656 \$388,500 (R)
- John Deere 9410R, 2014, 346 meter hrs., Stk #74083 \$330,500 (KD)
- John Deere 9360R, 2012, 2285 meter hrs., Stk #61576 \$247,000 (M)
- John Deere 9330, 2010, 1803 meter hrs., Stk #74078 \$258,000 (UN)
- John Deere 9330, 2008, 2726 meter hrs., Stk #60521 \$205,000 (M)
- John Deere 7330, 2009, w/741, 2129 meter hrs., Stk #61098... \$130,007 (Y)
- John Deere 7230, 2009, w/ 741, 3630 meter hrs., Stk #61473 \$103,500 (M)
- John Deere 7210R, 2014, 820 meter hrs., Stk #73805 \$236,800 (MC)
- John Deere 6195R, 2015, w/ H380, 487 meter hrs., Stk #61437 \$210,514 (FL)
- John Deere 6170R, 2012, w/ H380, 2668 meter hrs., Stk #59410 \$165,907 (B)
- John Deere 6140M, 2015, 266 meter hrs., Stk #60031 \$175,085 (Y)
- John Deere 6125R, 2015, 238 meter hrs., Stk #60549 \$172,099 (P)
- Case IH 580 Quadtrac, 2015, 796 meter hrs., Stk #61463..... \$479,007 (Y)

SKIDSTEERS

- Bobcat T870, 2012, w 84" Bucket CP1000630, 1289 meter hrs., Stk #77009 \$66,200 (HU)
- Bobcat S750, 2015, 349 meter hrs., Stk #60836 \$69,327 (Y)
- Bobcat S750, 2014, 496 meter hrs., CP100629, Stk #15154 \$59,500 (SC)
- Bobcat S650, 2015, 242 meter hrs., Stk #59365 \$63,995 (M)
- Bobcat T190, 2011, 2367 meter hrs., Stk #61024..... \$39,002 M)

SPRAYERS

- John Deere R4045, 2016, 484 meter hrs., Stk #61009 \$511,600 (P)
- John Deere R4045, 2015, 1111 meter hrs., Stk #61173 \$405,007 (M)
- John Deere R4038, 2015, 636 meter hrs., Stk #60648 \$383,842 (R)
- John Deere R4030, 2014, 1356 meter hrs., Stk #60456 \$346,500 (M)
- John Deere 4940, 2014, 1215 meter hrs., Stk #60123 \$355,007 (Y)
- John Deere 4940, 2013, 1624 meter hrs., Stk #58609 \$306,007 (M)
- John Deere 4940, 2012, 1797 meter hrs., Stk #71593 \$314,300 (HU)
- John Deere 4930, 2011, 2733 meter hrs., Stk #58621 \$228,900 (M)
- John Deere 4830, 2008-2014, 1043 meter hrs..... Starting at \$168,4000 (K)
- John Deere 4730, 2008-2014, 1937 meter hrs..... Starting at \$171,400 (UN)
- John Deere 4720, 2005 - AS IS, 1839 meter hrs, Stk #111466.. \$136,900 (K)
- Case IH 4440, 2015, 600 hrs, 3916 meter hrs., Stk #71505..... \$435,800 (NB)

TILLAGE & HARROWS

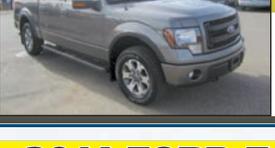
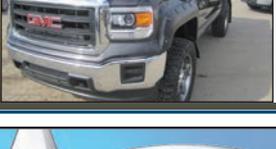
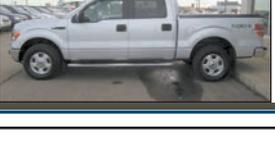
- John Deere 2625, 2013 tandem disk 26', Stk #58976 \$89,507 (P)
- Brandt 7000, 2012, 70' heavy harrow- AS IS, Stk #61197..... \$28,507 (M)
- Kelly 45 2014 Kelly diamond 45' harrow- AS IS, Stk #61078..... \$84,507 (M)
- Horsch Joker RT-330, 2013, vertical tillage - MI10368, Stk #64283.. \$71,600
- Leon 400, 2012, 16FT pull dozer, Stk #57543..... \$23,407 (P)

HAYING

- John Deere 180A, 2013, 18'- USED, Stk #60171 \$27,507 (Y)
- Leon BH855 2016 Bale Mover- HY103741, Stk #60458 \$16,800 (SH)
- MacDon A40D, 2012 - HC301238, Stk #59383..... \$24,200 (HU)
- New Holland BR7090, 2012, 9683 hrs - AS IS, Stk #60645 \$31,507 (M)

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2013 DODGE RAM 1500ST  STK# SK-54349A 4.7L V-8 cyl., auto, 38,233 km, SK tax paid. \$28,995	2010 FORD F150 XTR  STK# SK-54157A 5.4L V-8 cyl., 6 spd. auto, 73,082 km \$22,995	2013 HONDA RIDGELINE VP  STK# SK-U02224 3.5L V-6 cyl., 5 spd auto, 76,330 km \$28,995	2012 DODGE RAM 1500 SLT 4X4  STK# SK-U01834 5.7L V-8 cyl., 6 spd auto, 43,441 km \$26,995
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2014 FORD F-150 4X4  STK# SK-54427A 3.5L V-6 cyl, 6 spd auto, 58,907 km \$39,995	2013 DODGE RAM 1500 SLT  STK# SK-U01498W 5.7L V-8 cyl, 8 spd auto, 32,997 km \$33,995	2014 FORD F-150 FX4  STK# SK-53939A 5.0L V-8 cyl, 6 spd auto, 21,762 km, SK tax paid \$40,995	2007 FORD F-150 LARIAT 4X4  STK# SK-SUD443 5.0L, auto, leather, 57,542 km \$22,995
2015 GMC SIERRA 1500  STK# SK-54248A 5.3L V-8 cyl, 6 spd auto, 26,059 km \$38,995	2011 FORD RANGER FX4  STK# SK-U01978 4.0L V-6 cyl, auto, 90,620 km, SK tax paid \$20,995	2014 FORD F-150 XLT  STK# SK-54359A 5.0L V-8 cyl., 6 spd. auto, 35,674 km, SK tax paid \$34,995	2014 DODGE RAM OUTDOORSMAN  STK# SK-53976A 5.7L V-8 cyl., 8 spd. auto, 37,614 km \$33,495



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1996 CC AT-4010-5 PLX.....	\$45,900
2012 JD 1870-56FT-12IN.....	\$135,000
2002 MR MAXIM.....	\$19,000
2009 NH P2070 70FT X 12IN.....	\$49,000
2012 SEMST 8012 CT TXB w/300 JD1910.....	\$295,000
2009 SEMST 5012 TXB.....	\$88,000
2003 SEMST 5440 TBH.....	\$41,000
2015 JD 1910 TBT.....	\$139,000
2010 JD 1910 TBH.....	\$55,000
1998 JD 1900.....	\$13,900
2012 MR 8650.....	\$105,000
2011 MR 8370.....	\$66,429
2014 NH P1060 TBT.....	\$68,000

ROUND BALERS

2011 NH BR7090.....	\$20,900
2009 NH BR7090.....	\$27,000
2008 NH BR7090.....	\$11,900
2007 NH BR780A.....	\$13,900
2007 NH BR780A.....	\$12,000

COMBINES

2001 JD 9650STS.....	\$55,000
2015 NH CX8090.....	\$445,000
2014 NH CX8090.....	\$355,000
2013 NH CX8090.....	\$315,000
2013 NH CX8080.....	\$344,000
1998 NH TR98.....	\$29,000

COMBINE HEADS

2000 CIH 1042-35.....	\$24,200
2009 JD 635F.....	\$32,000
2015 NH 840CD-35.....	\$75,000
2015 NH 840CD-35.....	\$75,000
2013 NH 840CD-35.....	\$67,000
2013 NH 840CD-35.....	\$67,000
2003 JD 936.....	\$29,900
2016 MB FD75-35FT CNH.....	\$92,000
2016 MB FD75-35FT CNH.....	\$92,000
2016 MB FD75-35FT CNH.....	\$92,000
2015 MB D65-35FT CNH.....	\$63,500
2015 MB D65-35FT CNH.....	\$73,000
2015 MB D65-35FT CNH.....	\$73,000
2015 MB D65-35FT CNH.....	\$73,000
2010 NH 94C-42FT CR/CX.....	\$65,000
2009 NH 94C-42FT CR/CX.....	\$50,000
2008 NH 94C-36FT CR/CX.....	\$39,000

SPRAYERS

1990 FC SYS 62.....	\$3,200
2012 NH S1070.....	\$33,000
2012 NH SP.240F XP.....	\$259,000
1993 SC0UP 3630.....	\$23,500

TRACTORS

1995 CIH 9270.....	\$64,000
2012 NH T9.615.....	\$306,667
2011 NH T8.275.....	\$175,000
2010 NH T7040.....	\$110,000

2003 NH TM140.....	\$59,900
1995 NH 9480.....	\$65,000
2016 VA 5500T.....	\$490,000

SWATHERS

2013 CHLGR WR9740.....	\$88,000
2012 JD A400-30FT & 18FT Sickle.....	\$120,000
2007 JD 4895.....	\$59,286
1989 JD 590.....	\$3,500
2002 MB 2952-36FT.....	\$62,000
1999 MB 9200.....	\$46,900
2015 NH SPEEDROWER 200-40FT.....	\$139,000
2003 NH HW320-25FT/HS16.....	\$41,000
MISC	
ATV 2009 CK 3100S.....	\$9,250
Deep Tillage 1984 MR CP750.....	\$16,000
Forklift 2006 JC 940 RTFL.....	\$40,000
Forklift 2004 SX SD 80.....	\$64,000
Grain Auger 2011 FK 10x70TMMR.....	\$10,000
Grain Auger 2011 FK TMR10x70.....	\$9,500
Grain Auger 2014 MERID HD10-53.....	\$15,500
Grain Vac 2002 REM 2100.....	\$11,900
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Utility Vehicle 2010 NH 115 rustler.....	\$8,500
Track Loader 2013 CA TV380.....	\$60,000
Mower Conditioner 2014 NH H7150.....	\$38,900
Mower Conditioner 2013 NH H7460.....	\$39,286
Mower Conditioner 2006 NH 1475.....	\$19,900
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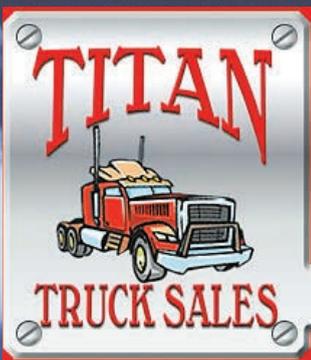
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500 HP Detroit DD15, 18 sp, 12 front super 40 rear, 4x4 diff. lock, 4:10 gears, 220" WB. 986,500 km

\$43,000

2003 IH 9900IX



500 HP, 18 sp, 12/40, 22.5" alloy wheels, 244" WB. 3:73 gears, wet kit, 1,037,136 km

\$25,000

2012 KENWORTH W900L



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 244" WB. 663,904 km

\$77,000

2011 MACK CXU613



445 HP Mack MP8, 18 sp Mack, 12 front 40 rear, 24.5" alloy wheels, 222" WB, 3:90 gears, 1,091,290 km

\$39,000

2011 KENWORTH W900L



500 HP ISX Cummins, 18 sp, 13,200 front 46,000 rear, 24.5" alloy wheels, 4:10 gears, 4x4 diff. locks, 244" WB, 546,174 km

\$59,000

2012 KENWORTH W900B



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 236" WB, 832,553 km

\$67,000

2014 MACK CXU613



445 HP MP8, 18 sp, 12/40, 3:55 gears, 22.5" alloy wheels, 224" WB. 3x4 diff. locks, 454,332 km

\$77,000

2012 KENWORTH W900B



500 HP Cummins ISX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 236" WB, 967,403 km

\$65,000

2012 KENWORTH T660



485 HP Paccar MX, 18 sp, 12 front 46 rear, 3:91 gears, 22.5" alloy wheels, 4x4 diff. locks, 228" WB. 816,785 km

\$50,000

2013 KENWORTH T800



500 HP Cummins ISX, 18 sp, Eaton Autoshift, 12 front super 40 rear, 22.5" alloy wheels, 224" WB, 4x4 diff. locks, 4:10 gears, 930,364 km

\$50,000

2012 PETERBILT 388



450 HP Cummins ISX, 18 sp, 12 front 40 rear, 3x4 diff. locks, 63" bunk, 244" WB, 22.5" alloy wheels, 3:90 gears, 781,522 km

\$67,000

2012 PETERBILT 389



550 Cummins ISX, 18 sp, 12 front super 40 rear, 22.5" alloy wheels, 3:91 gears, 244" WB, 4x4 diff. locks, 1,050,071 km

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SP SPRAYERS 4241

2007 JD 4720, 800 gal., 1070 spray hrs., 90", 3" fill, sec. control, 2 sets tires, crop dividers, GreenStar display, Starfire 3000, \$175,000. 780-307-1148, Dapp, AB.



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AIR DRILLS 4250

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2012 SEMST 8012 CT TXB w/300 JD 1910 \$295,000. Call Watrous New Holland 306-946-3301, Watrous, SK. or view www.watrousnewholland.com

JD 1820, 61" air drill, 10" spacing Atom Jet paired row boots, 4" pneumatic packers, NH3 Raven controller, sectional, JD 1910 430 cart, variable rate, 3 meters, \$49,000. 306-743-7622, Langenburg, SK.

2009 SEMST 5012 TXB, \$88,000. Call Raymore New Holland, 306-746-2911 or www.raymorenewholland.com

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2010 65" 3310 BOURGAULT Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$145,000. 2002 49" Morris Maxim air drill, 12" spacing, w/7240 Morris grain cart, \$52,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 NH P2070 70", 12", \$49,000. Call Yorkton New Holland, 306-783-8511 or www.yorktonnewholland.com

2010 MORRIS 8370, 3 tank, variable rate, TBT, 440 bu., \$69,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2003 SEMST 5440, TBH, \$41,000. Yorkton New Holland, 306-783-8511, Yorkton, SK. or www.yorktonnewholland.com

2008 BOURGAULT 5710 air drill, mid row banders/knives, good condition, monitors incl., \$95,000. 306-294-0015, Eastend, SK. d.taylor@hotmail.com

AIR DRILLS 4250

2013 BOURGAULT 3320 XTC 66", 10" space, MRB, DS, Bourgaault updates done, blockage and X20 monitors c/w 6700 cart, 2 fans, 4 metering tanks, conveyor, duals, whole unit always shedded, exc. cond., \$320,000. 780-872-3262, Lashburn, SK.

2010 MORRIS CONTOUR 61", 10", liquid, 4" airlift packers w/Morris 8370 TBT air cart, \$200,000. Ph. 306-736-7716, Kipling, SK.

2015 JD 1910 TBT, \$139,000. Raymore New Holland, 306-746-2911, Raymore, SK. or www.raymorenewholland.com

2014 NH P1060 TBT, \$68,000. Watrous New Holland, 306-946-3301, Watrous, SK. or www.watrousnewholland.com

CASE/IH 4012 ATX drill, Edge-On shanks, Farmland boots, low disturbance sweeps, disc closers every shank, \$18,000 OBO. 403-820-0145, Drumheller, AB.

4710 CONCORD and 3000 air cart, 47", 10" spacing, 300 bu., disc levelers, 3" Dutch openers, 4 rank, 5 plex, Agtron blockage, \$14,000 OBO. 306-463-7420 Kindersley SK

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2012 MR 8650, \$105,000. Call Yorkton New Holland, 306-783-8511, Yorkton, SK. or www.yorktonnewholland.com

2006 EZE-ON 7550 40" air drill, 10" spacing, 5" packers, 4" carbide tip openers, 3115 tank, \$35,000. 306-452-7004, Parkman, SK. E-mail: taylorgrains@gmail.com

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2012 SEMST 8012 CT TXB w/300 JD 1910 \$295,000. Call Watrous New Holland 306-946-3301, Watrous, SK. or view www.watrousnewholland.com

JD 1820, 61" air drill, 10" spacing Atom Jet paired row boots, 4" pneumatic packers, NH3 Raven controller, sectional, JD 1910 430 cart, variable rate, 3 meters, \$49,000. 306-743-7622, Langenburg, SK.

2009 SEMST 5012 TXB, \$88,000. Call Raymore New Holland, 306-746-2911 or www.raymorenewholland.com

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

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2009 BOURGAULT 3310, 75", w/6550 tank, 1 year on new tips and discs, very accurate drill and tank, \$205,000 OBO. Call 306-867-7165, Loreburn, SK.

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2002 BOURGAULT 8810 52", packers, 8" sp. \$36,000; 1996 Bourgaault 40" 8800/3195, \$16,000. 306-563-8482, Rama, SK.

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2015 BOURGAULT 3320, 76' with 6550, Stock #61311, \$231,507. 306-463-2683, Kindersley, SK. www.maplefarm.com

2008 JD 1895, 43"x10" w/1910 TBT or 1910 TBH. Stock #60426, \$111,021. Phone 306-554-2536, Wynyard, SK. www.maplefarm.com

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2012 CASE/IH 3430, Stock #60793, \$59,007. Call 306-334-2492, Balcarres, SK. www.maplefarm.com

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2015 BOURGAULT 3320, 66", with 7700, Stock #60295, \$525,013. 306-783-9459, Yorkton, SK. www.maplefarm.com

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1995 CASE 5240, 3900 hrs., can be equipped w/loader; 1999 Case MX170, 4000 hrs., c/w loader. Call 204-522-6333, Melita, MB.

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1997 JD 7610 MFWD, 740 loader and grapple, 19 spd. powershift trans., good rubber, 2 hyds., 8449 hrs., \$60,000. 403-485-8085, Vulcan, AB.

JOHN DEERE 8630, PTO, tires like new, excellent condition, \$19,500. 306-861-4592, Fillmore, SK.

2007 9320, 3044 hrs., 375 HP 24 spd. trans., 4 hyds., deluxe cab, AutoTrac ready, 620-70R42 duals, wheel weights, excellent shape. \$162,000 OBO. Call 306-247-2099, 306-843-7337, Scott, SK.

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition. 403-823-1894, Drumheller, AB.

JOHN DEERE 4295

9420 JD, bought new in 2003, shedded summer/winter, 710x42 tires, used on 40' cult. on small farm, 2800 hrs., mint cond., \$155,000. 306-752-4336, 306-921-7683, Melfort, SK.

NICE 2010 JD 9630, 4 WD, orig. owner, 2500 hrs., fully loaded, big hyd. pump, 5 remotes, 800 duals, all updates done, best offer. Don 306-948-6059, Biggar, SK.

1995 JD 8770, 4 WD, 9400 hrs., 300 HP PTO, 24 spd., 4 remotes, runs exc., tires 30%, vg cond., \$35,000 OBO. 780-878-1550 Camrose, AB. joelduggan@hotmail.com

WANTED: JD 2520 tractor, powershift, 1969-1972. Also 3020, 4000, 4020, 4620. Diesel, powershift, '69-'72. Cancar Ag tree farmer 4 WD early 1960's. 306-960-3000.

2000 JD 7710, 4900 hrs; 2006 JD 7720, 4600 hrs; 1998 JD 7810, 5900 hrs; 1997 7710, 5500 hrs. All are MFWD and can be equipped w/loaders. 204-522-6333, Melita

WRECKING FOR PARTS: JD 2750, 3 PTH, vg sheet metal; 4430 JD, vg run eng., good sheet metal; 4440 JD, complete OH eng., vg sheet metal and cab, vg 18.4x38 tires and rims. 1-877-564-8734, Roblin MB

1999 JD 9400, 425 HP, 24 spd., new rubber, 4 hyds. w/return line, exc. cond., \$85,000 OBO. 306-861-4592, Fillmore, SK.

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2004 JD 9420, 4 WD, 425 HP, 4701 hrs., 18 spd., powershift, 710/70R42 Michelin-75%, diff. lock, 48 GPM, hyd. pump, 4 SCV, radar, Xenon lighting, instructor seat, fully weighted, GreenStar ready, exc. cond. inside/out, Greenlighted 2016, always kept inside when not used, \$166,000 OBO. 780-818-9001, Devon, AB.

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2004 NH TV145 Bi-Di, loader, bucket, bale spear incl., front mount discbine available, \$69,900 OBO. 780-709-4090, Vermilion, AB.

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FORD 4307

1993 FORD 846, 4 WD, 7884 hrs., pump opened. 275 HP new injectors and bearing roll done at 7000 hrs., 18.4/38 tires- good condition, w/wo 14' Degelman blade, std. trans., 4 remotes, plumbed return line. \$39,000 w/o blade, vg condition, \$45,500 OBO. 306-648-8144, Gravelbourg, SK.



1993 FORD 846, 7792 hrs., 230 HP 4 WD, 18.4R38 duals, PTO, 4 hyds., diff lock, cab, AC, heat, 14 spd. std. trans., \$46,000 OBO. Call 204-743-2324, Cypress River, MB.

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LOADERS/DOZERS 4322

2006 CAT D8T SU dozer, single shank ripper, cab air, 11,000 hours, work ready, \$150,000. 204-795-9192 Plum Coulee, MB



2017 YANUSH PULL STYLE DOZERS. Buy or lease pricing starting at \$25,500. Visit booth 1720 at Manitoba Ag Days for more info or call Jonathan 306-876-4989 or 306-728.9535. www.yanush.ca



2004 DEERE 325 skidsteer loader, new eng., c/w bucket, vg working condition. \$25,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.

DEGELMAN 1038 10' box blade, exc. \$5000; Degelman 4600 blade, 4-way, mounts for JD 6430 tractor, exc., \$9500; Degelman 6900 2-way, mounts for JD 9320. 780-352-3012, Wetaskiwin, AB.

CRAIG SNOW WING, 12', c/w frame, mounts and hyd. block off of a 1997 Champion 730A-VHP Series V Grader, \$4900. View www.combineworld.com 1-888-278-4905.

2013 DEGELMAN 5700 blade, 12', mounts for JD 6150R; 2013 Degelman 5700 blade, 12', mounts for NH T7.185, \$11,500 ea. 780-679-7795, Camrose, AB.



2012 BOBCAT S 205 skidsteer loader, 1650 hrs., c/w bucket, vg working condition, \$28,000. Can deliver. Call anytime 204-743-2324, Cypress River, MB.

ALLIED 590 LOADER, excellent shape, \$3500. Danny Spence, Speers, SK. 306-246-4632.



2013 CIH L785 FEL w/grapple and bucket. Fits on Case Puma 200, \$18,000; Also have some rear weights as well, \$1.75/lb. 204-743-2324, Cypress River, MB.

LEONS 775Q, Q/A, 6-way hyd. front mount blade, \$13,500; Allied Farm King 960, 3 PTH snowblower, hyd. spout, \$3,500; JD 158 FEL, bucket, joystick, mounting kit to fit JD 4240, 4440 & 4230 tractors, \$5,500; Leons 707 push blade 8' front mount blade, \$1,200. Lamont Farm Centre Ltd., 780-895-7338, Lamont, AB.

2011 CASE 1221E loader w/toothed bucket, M11 Cummins, 4 spd., 5500 hrs., \$165,000. 306-452-8081, Redvers, SK.

2015 LEON 16' pull scraper, n/a hrs., hardly used, 6-way blade, flip down ends, steering axle, excellent condition, \$16,000 OBO. 780-878-1550, Camrose, AB.

MISCELLANEOUS 4325

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

RICHARDSON GRADER, good condition, \$2100. 306-460-9027, 306-463-3480. Flaxcombe, SK.

1984 CHEV 3T, B&H, \$9000 OBO; Forklift stonepicker, \$500; Zamboni style Badger shop sweeper, \$6000 OBO; CIH 2388 concaves, \$200 ea.; Karcher hot water washer, \$700 OBO. 306-272-7038, Foam Lake, SK.

GPS OUTBACK EZ-DRIVE TC with S2 Display, hyd. steering control. Will fit all ATX Case/IH 4 WD tractors and other makes, \$3300. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

BOBCAT 943 SKIDSTEER, \$14,900; NH LX865 skidsteer, \$12,900; McKee 7' snowblower, \$7,000; Lorenz 8' HD snowblower, \$1,500; Gehl 500 cu. ft., 4 auger feed cart, \$10,000; Knight 3 auger feed cart, \$5,000. 1-866-938-8537.

CHECK OUT OUR inventory of quality used highway tractors. For more details call 204-685-2222 or view information at www.titantrucksales.com

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WANTED: GOOD ENGINE for Belarus 7010. Will consider buying complete tractor. Call 403-378-4979, Duchess, AB.

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LAZY S BULL POWER 2017, January 28th, at the ranch. Mayerthorpe, AB. 225 polled red and black Simmental, Angus and Beef-maker (Sim Angus) bulls. 780-785-3136. Video online www.lazysranch.ca

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BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

NORDAL LIMOUSIN And ANGUS Bull Sale, Thursday, Feb. 16th, 1:00 PM, Saskatoon Livestock Sales, Saskatoon, SK. Offering 2 year old polled, red, and black Limousin bulls. For more info. contact Rob Garner at 306-946-7946, Simpson, SK. Catalogue online at: nordallimousin.com

SOUTH VIEW RANCH has **Black and Red Angus** 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

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NORDAL LIMOUSIN And ANGUS Bull Sale, Thursday, Feb. 16, 1:00 PM, Saskatoon Livestock Sales, Saskatoon, SK. Offering 2 year old Red and Black Angus bulls. For more info. contact Rob Garner at 306-946-7946, Simpson, SK. Catalogue online at: nordallimousin.com

REG. RED ANGUS bulls born Feb./Mar. 2016, calving ease, good growth. Little de Ranch, 306-845-2406, Turtleford, SK.

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COMING 3 YR. old Red Angus herdsire, used on PB herd. Call Little de Ranch, 306-845-2406, Turtleford, SK.

CHAROLAIS 5055

15 PUREBRED CHAROLAIS bred heifers and 15 second calvers bred Charolais. Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

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60 BRED COWS Charolais/ Simmental cross for sale. Call 403-652-7253, High River, AB.

YEARLING & 2 YEAR old Charolais bulls, Creedence Charolais Ranch, Ervin Zayak, 780-741-3868, 780-853-0708 Derwent, AB

POLLED PB YEARLING CHAROLAIS bulls, performance and semen tested. Will keep until April, \$3000-\$4000. Charrow Charolais, Bill 306-387-8011, 780-872-1966, Marshall, SK.

GELBVIEW 5075



DAVIDSON GELBVIEW & LONESOME DOVE RANCH, 28th Annual Bull Sale, Saturday, March 4, 2017, 1:00 PM at their bull yards, Ponteix, SK. Complimentary lunch at 11:00 AM. Pre-sale viewing and hospitality, Friday, March 3rd. Selling 100+ PB yearling bulls, Red or Black. Performance and semen tested. Contact Vernon and Eileen 306-625-3755, Ross and Tara 306-625-3513, Ponteix, SK. View catalog and video on our websites: www.lonesomedoveranch.ca or www.davidsongelbview.com

HEREFORD 5090

MISTY VALLEY FARMS 41st Annual Production Sale of Horned Herefords, Wednesday, February 8th, 2017 at the ranch, 1:00 PM MST. On offer: 70 long yearling bulls including Lanni Bristow's sale group; 45 bred registered heifers; 55 bred commercial Hereford heifers; 15 open heifer calves from Mark Law. Bulls semen tested. Heifers pregnancy tested. Misty Valley Farms, RR #1, Maidstone, SK. Harold Oddan 306-893-2783; Maurice Oddan 306-893-2737; Lanni Bristow 780-943-2236; Mark Law 204-743-2049.

10 REGISTERED HORNED Hereford 2nd calving cows. Jensen Farms, Carstairs, AB. 403-337-3766.



RANCH READY HORNED Hereford Bull Sale, March 10th, 1:00 PM at the ranch, Simmie, SK. 15 two year old bulls, 30 yearling bulls, 6 purebred open heifers, 20 commercial open heifers. View catalogue and sale videos: www.braunranch.com Contact Craig Braun at 306-297-2132.

BANNERLANE HORNED HEREFORDS Annual Sale, Tuesday, Feb. 7, 2:00 PM CST (1:00 PM MST) at the farm, Livelong, SK. 30 coming 2 year old bulls, semen tested; 34 bred Hereford cross heifers, preg checked; 4 feature bred heifers. Dinner at noon. Central point free delivery. Email: bannerlane@littletoon.ca or phone Rob Bannerman, 306-845-2764, 306-248-1214. Catalogue online at: www.hereford.ca

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LIMOUSIN 5115

NORDAL LIMOUSIN And ANGUS Bull Sale, Thursday, Feb. 16th, 1:00 PM, Saskatoon Livestock Sales, Saskatoon, SK. Offering 2 year old polled, red, and black Limousin bulls. For more info. contact Rob Garner at 306-946-7946, Simpson, SK. Catalogue online at: nordallimousin.com

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WELSH BLACK - The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240

125 BRED RED ANGUS cross heifers, bred to Red Angus bulls. Bulls out July 1st for 60 days. Call 306-355-2700, Mortlach, SK.

BRED HEIFERS: 75 Red and Black Angus; 25 Hereford. Exc. ranch raised females. Bred to top quality bulls. Call Dean at 780-855-2580, New Norway, AB.

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12 BRED GELBVIEW heifers for sale, start calving March, 2017, \$2000 each. Call 306-824-4523, Rabbit Lake, SK

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75 SECOND AND THIRD Black and Red Angus young bred cows. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

44 TOPCUT ONE IRON Red Angus cross bred heifers, AI'd to low birthweight Red Angus bull, very impressive group of heifers. Call 306-937-2880 or 306-441-5010 Battleford, SK.

GOOD QUALITY BRED HEIFERS. Red Angus, Red Angus cross Hereford and Red Angus cross Simmental. Bred Red Angus. Ferguson Stock Farm Ltd., 306-895-4825, Paynton, SK.

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ELK 5760

ALBERTA ELK RANCHERS Production Sale 6th Annual. Friday, Feb. 17, 2017, 7:00 PM, Nisku Inn, Nisku, AB. Gateway Auction Services Ltd., ph. 1-866-304-4664. Details go to: www.gwacountry.com

BUYING ELK for local and international meat markets. Call us for competitive pricing and easy marketing. Phone Ian at 204-848-2498 or 204-867-0085.

GOATS 5765

BUTCHER MEAT GOAT KIDS, butcher lambs, bred boer nannies. 306-466-2068, Shellbrook, SK.

LIVESTOCK EQUIPMENT 5790

2014 HIGHLINE BALE PRO CFR651, with chopper and grain tank, processed 1000 bales, asking \$27,000. Call 306-397-2653, 306-441-2663, Edam, SK.

PAYSAN LIVESTOCK EQUIPMENT INC. We manufacture an extensive line of cattle handling and feeding equipment including squeeze chutes, adj. width alleys, crowding tubs, calf tip tables, maternity pens, gates and panels, bale feeders, Bison equipment, Texas gates, steel water troughs, rodeo equipment and garbage incinerators. Distributors for El-Toro electric branders and twine cutters. Our squeeze chutes and headgates are now available with a neck extender. Ph 306-796-4508, email: ple@sasktel.net Web: www.paysan.com

13 SILAGE TROUGH, 30'L, steel framed w/planks, \$600 ea; Jiffy 250 feed wagon, \$3500. Ph 306-837-7818, Loon Lake, SK.

FREESTANDING PANELS: 30' windbreak panels; 6-bar 24' and 30' panels; 10', 20' and 30' feed troughs; Bale shredder bunks; Silage bunks; Feeder panels; HD bale feeders; All metal 16' and 24' calf shelters. Will custom build. 306-424-2094, Kendal, SK.

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GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$470; 24'x5.5' panels, 2-7/8" pipe with 5-1" sucker rods, \$350; 24'x6' panels, 2-7/8" pipe with 6-1" rods, \$375; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Call shelters. Del. avail. 306-768-8555, Carrot River, SK.

SVEN ROLLER MILLS. Built for over 40 years. PTO/elec. drive, 40 to 1000 bu./hr. Example: 300 bu./hr. unit costs \$1/hr. to run. Rolls peas and all grains. We regroove and repair all makes of mills. Call Apollo Machine 306-242-9884, 1-877-255-0187. www.apollomachineandproducts.com

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2002 521DXT CASE payload w/grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

Misc. ARTICLES 5850

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ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agrologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

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PERSONAL 5950

PERSONAL ADS
Personal Advertisements will not be accepted over the telephone. Only those advertisements carrying the written signature of the advertiser will be published. (Although name and address will not appear in one's ad, we must have this information for our files.) Full payment must also accompany Personal Ads. Replies to Western Producer box numbers will be forwarded for two months.

SWM, 47, 6' tall, cattle farmer, loves outdoors, never been married. Looking for single lady who loves the farm. Reply to Box 5591, c/o The Western Producer, Box 2500, Saskatoon, SK. S7K 2C4

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PERSONAL VARIOUS 5952

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PETS

THE ANIMAL PEDIGREE ACT
No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

NON REGISTERED 5971

COUNTRY RAISED CATS and kittens to give away! An assortment of healthy and active ones. Can deliver within reason. Phone 306-278-2069, Carragana, SK.

WORKING DOGS 5973

PUREBRED BORDER COLLIE pups. From good working and personable parents. Contact 306-553-2213, Swift Current, SK.

BLUE HEELERS PUPS for sale, ready to go. Call 306-290-8806, Dundurn, SK.

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BORDER COLLIE PUPS red and white, from working parents, ready to go, \$500. 306-587-7169, Success, SK.

MATURE IRISH WOLFHOUND/ Greyhound cross dogs for sale. Phone 306-290-8806, Dundurn, SK.

1 FEMALE BLUE HEELER pup, ready now. Excellent working dog. 306-492-2447, 306-290-3339, Clavet, SK.

REAL ESTATE

B.C. PROPERTIES 6110

NW BC GOLD Lease- Cassiar. Ancient river bed, 1895 Chinese "hand mine" claim, approx. 105 acres and some equip. for sale or trade. Email: duckdodger@sasktel.net

COTTAGE/LOTS 6125

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HOUSES/LOTS 6126

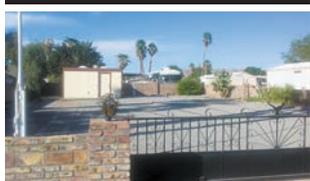
ALBERTA ACREAGE LAND located between 2 of Central AB's prettiest lakes, \$359,900. Call 403-350-7672. www.BlakeKing.ca

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YUMA, AZ. HOME for sale: 3 bdrm, 2 baths, w/solar system, pool, att. garage and RV garage, fully furnished. For more info. call 403-871-2441 or 928-503-5344.

HOUSES/LOTS 6126



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MEDALLION HOMES 1-800-249-3969 Immediate delivery: New 16' and 20' modular homes; Also used 14' and 16' homes. **Now available: Lake homes.** Medallion Homes, 306-764-2121, Prince Albert, SK.

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RESORTS 6129

MESA AZ. For sale fully furnished 2 bdrm. mobile home. For more info call 306-317-2740.

FARMS & RANCHES

BRITISH COLUMBIA 6131

178 ACRE RANCH, beautiful view of the Seven Sisters mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, on Hwy #16 between Smithers and Terrace, \$650,000. 250-849-8411.

HALF SECTION OF open farmland for sale. Fort St. John, BC. area. Cultivated. Good productive soil. Sloped North to South. Lots of wildlife. Each quarter is titled. Other land is also available to purchase. Phone 250-781-3586, e-mail: trskafte@ocool.com

ALBERTA 6132

8700 ACRE FARM/ RANCH: Want to enjoy the country life? This 8700 acre farming ranch is half grazing land, the other half is deeded. The land can also be split. Annual surface revenue is \$33,000. The 3 bedroom farm house is older, but is still in good condition, and there is an exc. water supply. Some of the outbuildings incl. a steel 40'x60' cold storage shed, and a 32'x50' concrete floor shop- insulated and heated. **MLS® ID #1100535 HANNA.** Real Estate Centre, 1-866-345-3414. View www.farmrealestate.com for all our listings.

FARMLAND FOR SALE. SE-22-82-21-W5, SW-22-82-21-W5, NE-22-82-21-W5, SE-34-82-21-W5. 159 acres ea. Approx. 250 cult. acres, trees and muskeg. Nampa and Peace River area. Call 780-919-3489.

ONE QUARTER GRAINLAND for sale, East of Bindloss, AB. For more info. call 403-379-2521.

SASKATCHEWAN 6133

RM RODGERS 133. Wanted grain land to rent/lease or purchase in the RM of Rodgers 133 and surrounding RM's. 306-631-5302, pepinfarms@gmail.com

FARMLAND FOR SALE BY TENDER, RM # 341: NW-04-36-26-W2; SE-04-36-26-W2; NW-21-35-26-W2; NE-21-35-26-W2. 306-203-1912, soso_42@hotmail.com

8 QUARTERS GRAINLAND for rent in RM Kellross 247. 5 miles North of Leross, SK. 306-736-3223 or gtwillmese@gmail.com

SEVERAL QUALITY LAND packages for sale. Please check out our website at www.hcventures.ca Regina, SK.

SASKATCHEWAN 6133

ID#1100539. 11 QUARTERS OF LAND IN SENLAC. 1322 acres of pasture/ improved pasture. Includes a creek that flows through the property. 4 spring fed dugouts with excellent water throughout the entire property. 2 gas wells on the property with CNRL. Fencing is good and a set of steel corrals are also included. **MLS®.** Call Real Estate Centre, 1-866-345-3414. For all our listings visit www.farmrealestate.com

PRIME FARMLAND FOR SALE: approx. 640 acres of prime heavy farmland in RM of Redburn. Land includes a farm site with modern shop and some grain storage. The land is held in a farming corporation and this is a share sale. The sale will be by closed bid. 310-998-7996, Drinkwater, SK. Email: mbrown3400@gmail.com

GRAIN FARM, 29 quarter sections in a block, South of Sturgis, SK. Approx. 4640 total acres, 4265 cult. Very good farm. 306-516-0070, saskfarm@outlook.com

QUARTER FARMLAND for Sale by Tender. 134 acres, NE-13-44-04-W3, RM Rosthern. Highest or any tender not necessarily accepted. Please submit tenders to: Robert Baynton, Box 1191, Rosthern, SK, S0K 3R0. Call for more information 306-467-4898.

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FARM/ RANCH LAND for sale. RM 73, 9 adjoining quarters of which 5 are currently in hay but could be put back to grain. 4 quarters grain land leased until 2018. 3 more quarters available for rent. Home quarter with modern yard may also be available for purchase. Evening calls only. 306-642-3442, Assiniboia, SK.

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

RM HILLSDALE. For sale by tender with bids closing Feb. 7, 2017. 6 quarters of some of the highest assessed farmland in the region. Paved access. Details at: www.cayfordtender.ca or contact Vern McClelland, RE/MAX Lloydminster 306-821-0611, Lloydminster, AB.

RM #369. 160 acres: 130 farmland, 20 grassland, 10 yardsite. Incl. 3 bdrm house, 3 car garage, quonset and sheds. 306-872-4500, 306-874-7778, Spalding SK

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.

RM 260-261, LAND FOR RENT BY TENDER. RM 260: SE-15-27-23, NE-16-27-23, NW-16-27-23, SW-21-27-23. RM 261: NE-25-25-26, NW-25-25-26, SE-35-25-26. Highest or any offer may not necessarily be accepted. All offers due by January 15, 2017. Grant Specht, Box 38, Eatonia, SK. S0L 0Y0. Home 306-967-2768, cell 306-463-9768.

LANE REALTY

JUST LISTED!

Lane Realty is happy to announce the following listings recently added to our website.

- REGINA:** 10 ac. - 1501 sq ft home on large yard w/mature trees and City of Regina water.
- CANORA:** 103 ac. - 105 cult. ac., strong water supply, steel grain storage.
- MANOR:** 152 ac. - 1,400 sq home (each level) indoor pool, well treed yard on Highway #13, 120 cult. ac., 10 ac. tame grass. Call for details!
- LIMERICK:** 154 ac. - 50 cult. ac., bal. grass, 1500 sq ft home.
- KELVINGTON:** 158 ac. - 116 cult. ac., assess. 84,300.
- WAKAW:** 161 ac. - 155 cult. ac., assess. 107,600.
- KIPLING:** 244 ac. - 193 cult. ac., assess. 73,095.
- KIPLING:** 3175 ac. - 2485 cult. ac., 30 ac. fenced pasture, assess. 70,315/qr., two homes. Land has many improvements, Call for details!
- ELROSE:** 3334 ac. - 3018 ac. deeded + 316 ac. leased, 1520 ac. cult., bal. grass, livestock facilities, 2,152 sq ft home + 1,000 sq ft home.

To include your property for Winter Showings CALL US TODAY!
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SASKATCHEWAN 6133

FARMLAND WANTED

NO FEES NO COMMISSIONS

PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT.

Many References Available

A TOTAL OF 576 QUARTER SECTIONS SOLD ACROSS SASKATCHEWAN!

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FOR RENT: 3000 acre ranch. Includes hay meadows, pasture, possible farm site, 2 barns, house and quonset. Preferably young energetic couple. Mail replies to: Box 386, Glaslyn, SK. S0M 0Y0.

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Chad Campbell (306) 932-7711 South Central, SK

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SASKATCHEWAN 6133

INDIAN HEAD, SK FARM FOR LEASE. Approx. 2525 acres of cropland. Located NE of Regina in the RM of Indian Head. The area is well suited for canola, cereal crops and lentils. Bonnefield plans to negotiate with excellent farmers to form long-term lease arrangements to ensure this land is maintained profitably and sustainably for the long term. For more info email: indianhead@bonnefield.com

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Kevin Jarrett
(306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

FARMLAND FOR SALE in the Kipling, SK area, RM 124. 7 quarters with 1000 cult. acres, 1200 sq. ft. w/double att. garage, nat. gas heat, built in 1995, heated shop, quonset, seed cleaning complex incl. weigh scale and apple grain storage. 306-736-2850, 306-735-7575.

DWEIN TRASK REALTY INC., Delisle, SK. Cash renter tenders being accepted for one year lease on N1/2 and SE1/4 of 25-33-09-W3. For further information please call Dwein 306-221-1035.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

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Signature 306-260-7838

FOR SALE: 8400 ACRES cultivated highly assessed farmland in Luseland, SK area. Call 306-834-7619.

DWEIN TRASK REALTY INC. Perdue SW-01-35-12-W3, includes steel bins, Zip-perlock shed, plus treed yardsite. On main grid. FMV = 51,400. \$127,500; Dundurn RM 313, N1/2 07-33-02-W3 and RM 314 N1/2 12-33-03-W3 Total FMV = 211,900. \$634,900. Call Dwein 306-221-1035.

CUPAR, SK. FARM FOR LEASE. Cupar farm consists of approx. 863 acres of cropland located north of Regina in the RM of Cupar. Area is well suited for canola and cereal crops. Bonnefield plans to negotiate with excellent farmers to form long term lease arrangements to ensure this land is maintained profitably and sustainably for the long term. For additional info please email cupar@bonnefield.com

LAND FOR RENT by tender, 25 1/4 quarters for cash rent at Leader, SK. Tenders close Jan. 31, 2017. sheler1@hotmail.com or call Ervin Ausmus 306-628-7918.

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SASKATCHEWAN 6133

LAND TENDER: 560 acres of Louac Farmland for Sale by Bids. Written confidential bids are being accepted for the sale of all, or any portion of, or any combination of, parcels of farmland in the RM of Laird. Land locations are as follows: Portion of SW-25-40-5 W3, 80 title acres, 75 SAMA cult. acres, assessment 53,500; NW-25-40-5 W3, 160 title acres, 159 SAMA cult. acres, assessment 101,900; SW-36-40-5 W3, 160 title acres, 154 SAMA cult. acres, assessment 105,100; SE-35-40-5 W3, 160 title acres, 158 SAMA cult. acres, assessment 99,000. Total package consists of 560 titled acres or 546 SAMA cult. acres. All acres were seeded to HRSW in 2016. Written signed bids accepted until January 20, 2017. Bids must be accompanied by a 10% deposit, made out to Louac Farms Ltd. All applicants will be notified by January 27, 2017 and successful bidders identified and unsuccessful bidders cheques returned. Closing date for transaction will be Mar 31, 2017. Taxes for 2017 are the responsibility of the purchaser. The highest or any bid will not necessarily be accepted. There is no Right of First Refusal on this land. Send sealed bids to: Land Tenders c/o Louac Farms Ltd. Unit 702-922 Broadway Ave. Saskatoon, SK. S7N 1B7. For more info email: Kyle.klassen@sasktel.net or phone 306-227-0103.

MANITOBA 6134

EXCELLENT LIVESTOCK FARMS: 1) 1732 deeded acres w/4425 acres of Crown land, fenced, small bungalow, very good buildings and metal corral system, can carry 350 cow/calf pairs. 2) Excellent horse ranch in Erickson, MB., Riding Arena and buildings in fantastic condition. 3) 640 acres mixed farm within 15 min. of Brandon. 4) 640 acre cattle farm, Rorketon, MB., 1500 sq. ft. home, heated shop. Call Jim McLachlan 204-724-7753, HomeLife Home Professional Realty Inc, Brandon, MB., www.homelifepro.com

160 ACRES NW-5-21-26WPM, approx. 115 cult. acres, RM of Riding Mountain West near Angusville, MB. Bidders must rely on their own land inspection. Bids accepted until January 31, 2017. Submit written bids to Box 735, Arborg, MB. ROC 0A0. Highest of any bid not necessarily accepted. For more info. call 204-376-2971.

RM RUSSELL. 3400 acres. For more details check out our website www.hcventures.ca Regina, SK. Realtors/Brokers welcome.

PASTURES 6136

CUSTOM CATTLE GRAZING on former PFRA community pastures in Manitoba. Call Zane Fredbjornson 306-534-0000.

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WANTED PASTURE FOR 100 cow/calf pairs for summer grazing 2017 season. 403-485-6869, Vulcan AB.

WANTED 6138

LOOKING TO RENT farmland in central or south central Alberta. Would prefer cash rent. diamondecho@xplornet.com

ACREAGES 6139



ACREAGE: BETWEEN 12 and 13 acres, approx. 3500 sq. ft. house w/2 car garage, 50x100' heated shop w/in-floor heat, 60'x200' cold storage shed and other sheds on yard. \$650,000. 20 min. NE Neepawa, MB. Call 204-243-2453 or 204-871-4509.

DWEIN TRASK REALTY INC. Very good selection of acreage building sites currently available within 5 min. to 45 minutes of Saskatoon. Sizes range from 10 acres to 160 acres and most have reasonably close utilities. Resale acreages are available as well. Call Dwein 306-221-1035, Amanda 306-221-5675 or Victoria 306-270-9740. Pics and details at www.traskrealty.com

ACREAGES 6139



RETREAT/ACREAGE- 4 acres, Barrier Valley/ Archerwill, SK. 2200 sq. ft. home, exc. value, \$229,900. Mary Ellen Lebrash, Re/Max Saskatoon, call 306-231-7755, Humboldt, SK. or melabrash@sasktel.net Info./photos: www.remax.ca -Archerwill.



RM OF BIGGAR, BIGGAR, \$580,000. This acreage has 9.8 acres with a 3 bdrm, 2 bath home with a dbl. attached garage. This home has been 90% renovated inside and outside over the past 2 years. 32x50' heated shop with 3 bays. Back yard has 60x100' metal clad pole shed, 33x66' steel quonset, and 30x75' wood straight wall older shed. Excellent location, 8 miles north and 3 miles west of Biggar, SK. MLS#586422. Wally Lorenz, Realtor, Re/Max of the Battlefords, 306-843-7898.



32 ACRES 2 homes, outbuildings, and much more. \$1,250,000. 403-703-5548, Calgary, AB. Email gerardchiasson@gmail.com or view www.gerardchiasson.com

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CAMPERS/TRAILERS 6164

2007 OKANAGAN ECLIPSE 28.5' 5th wheel, bunk beds, big shower, winter pkg., low mileage, Mummy hitch, \$22,000. Call 780-221-3980, Leduc, AB.

MOTOR HOMES 6166



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SNOWMOBILES 6168

PARTS FOR VINTAGE snowmobiles, 1990 and older. Call Don at 780-755-2258, Wainwright, AB. doncole@mcsnet.ca

2009 TRITON 2 place aluminum trailer, 14' to nose, 13" wheels, \$2000. 204-937-3290, Roblin, MB.

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		2C	1,215	55.11
		X3C	925	41.96
16	Medium Green	1C	1,190	53.98
		2C	1,145	51.94
		X3C	880	39.92
16	Small Green	1C	1,375	62.37
		2C	1,215	55.11
		X3C	925	41.96
16	Extra Small Red	2C	770	34.93
		3C	662	30.03
		X3C	570	25.85
16	Small Red	3C	425	19.28
		2C	662	30.03
		X3C	570	25.85
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NATIONAL FARMERS UNION

Young farmers key to rural community success: NFU leader

President urges return of the loan program to help young farmers enter the industry

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

BOTHWELL, Ont. — It's the rural community as much as the success of agriculture that concerns the president and co-ordinator of the National Farmers Union in Ontario.

That's because their fortunes are intertwined.

"We need to draw on our strength, and our strength has been the children of rural Ontario," Emery Huszka said.

"I'm not naive. I know no one has all the answers, but there's a lot of things we could do."

Huszka spoke from his family's farm near the southwestern Ontario community of Bothwell, where his parents, siblings and children all have a stake in agriculture. The number of active farmers has dwindled in his area, but the Huszkas remain part of a community.

That was evident in mid-November when Huszka and several neighbours were busy laying a "pull-through" in a trench to connect natural gas from his parents' home to an outdoor, combination furnace.

Huszka described the neighbourhood as he looked up and down the gravelled road just west of Bothwell.

An abandoned farmstead next door was once among the most prosperous in the area.

Relatively few families actively farm anymore. Some have left, and others rent their land.

Huszka believes the situation can change for the better or, at least could be stabilized, with the right policies.

One idea would be to bring back

the old Junior Farmer system that once helped young people enter the industry — a long-term, government loan program with a stable interest rate.

"It would be an investment by government without government having to put any money into it," he said.

Our population is not appropriate for our demand for services.

EMERY HUSZKA
NFU PRESIDENT

Credible risk management programs are essential to support farm incomes when commodity markets falter, Huszka said.

Government should also maintain its level of support for small rural municipalities.

Support of farmers, especially new young farmers, helps maintain the rural population, he said. So does support for local food systems, which enables families to earn a reasonable income on relatively small parcels of land.

The idea is to maintain or even increase the population in rural areas. That, in turn, supports rural communities.

"Our population is not appropriate for our demand for services."

A related issue is the assessment for farm properties forecast by Ontario's Municipal Property Tax Assessment Corp. Huszka said the influence of non-farm investors is inflating the price of farmland.

"We see it as a major threat to food production."



This vintage Cockshutt tractor cost Emery Huszka "a case of beer and a promise to look after her." Huszka says support for young farmers helps maintain rural municipalities. | JEFFREY CARTER PHOTO

Farmers who own the land they work are likely to be better stewards, Huszka added, because they're influenced by the desire to pass on their property to their children.

The NFU has attracted many organic farmers to its membership base in Ontario, Huszka said.

He feels one of his roles is to

help bridge the discussion between organic and conventional farmers.

"I'm a farmer that uses many of the technologies available to us, but I also value doing things that are about stewardship," he said.

"It's not about what you spend. It's about what's left over."

He said the farming community

will be further ahead if knowledge is shared.

Huszka has started applying molasses to corn stalks, which encourages the microbial activity that helps break down the biomass.

He sees the growing interest in cover crops by both conventional and organic farmers as a positive development.

FEEDING THE NORTH

Ontario distribution plan for North aims to lower food costs

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

DRESDEN, Ont. — Remote communities in northwestern Ontario are moving toward what is hoped to be an answer to their chronic shortage of fresh food.

A new logistics plan is set to start by 2018, which is centred on a regional distribution centre to be built at the Sioux Lookout airport, according to Vicki Blanchard, economic development manager with the Municipality of Sioux Lookout.

"We're working with Indian Affairs and the communities to establish the regional distribution centre, specifically to ship food, essential goods and medical supplies to the north. The reason is to decrease the costs," Blanchard said.

"Billions of dollars have been spent in subsidies, and it certainly

hasn't been going to feed the mouths of babes."

Northwestern Ontario is home to a third of Canada's far north communities, where the federal government subsidizes food shipments. There are 33 communities with a population of more than 30,000. They can be reached by road in winter road but only by air for the rest of the year.

Blanchard said there's currently a circuitous route serving the communities, and orders occasionally fail to show up at all.

The plan is to move food more efficiently using Sioux Lookout airport, the fourth busiest in Ontario. The community of 5,000 is about five hours from Winnipeg by transport truck.

A joint report indicates that costs can be reduced with a better logistics plan by pooling procurement and consolidating shipments to reduce plane trips required.

Ryan Sakakeep, head councillor at Kitchenuhmaykoosib Inninuwug, said his priority is to find a better way to bring fresh food to his community.

Four litres of milk retail for more than \$12 in his community, which is more than double the price in Sioux Lookout.

IN ONE NORTHERN COMMUNITY, FOUR LITRES OF MILK COSTS

\$12

"It's expensive, and vegetables are usually brought in frozen in bags. They try to get in as much fresh berries and fruit and things like that, but it's usually not a lot," Sakakeep said. "We never run out of food or supplies, but there is room for improvement, fresher

food.... We have everything that every other small town has, except a highway.... The regional distribution centre would be an improvement."

Sakakeep said Kitchenuhmaykoosib Inninuwug and other remote communities in northwestern Ontario are not without resources. Potatoes were planted in a community garden around the end of May and harvested in September.

As well, members of the community hunt, fish and gather.

When he has enough time, Sakakeep said he's able to fill about five, four-litre bags with smoked fish, which he distributes among the community's elders. He also hunts in the spring and fall for partridge, grouse and waterfowl.

Other community members hunt moose and caribou.

"If we have a crisis here, we come together, but if I were in Ottawa or

Toronto, I'd likely be on my own. Here we help each other," Sakakeep said.

Chief Clifford Bull of the Lac Seul First Nation said remote communities have faced another issue in recent years — climate change.

"In winter, there's access to winter roads over ice, but for the last couple years, it's been limited because the weather has been warmer. It's an important factor," Bull said.

Barry King, who's worked for the band for the past 24 years, is also upbeat about the regional distribution centre. He said the federal subsidy is needed to make it work, and the focus needs to be on fresh food and essential goods.

King said it can be a challenge developing a reverse economy. There's a high cost to moving goods south, and additional infrastructure is needed for initiatives such as developing a commercial fishery.



RODENT PATROL | A snowy owl sits in a stubble field near Herronton, Alta. | MIKE STURK PHOTO

FOOD AND DRINK SUMMIT

Canadians overeat, waste food

Report finds average diet contains too much salt and saturated fat

BY JEFFREY CARTER
FOR THE WESTERN PRODUCER

Canadians could eat better. For most, it's a matter of not making the right nutritional choices.

For some, it's about lacking the means to do so.

Canada's 2016 Food Report Card was unveiled at the Food and Drink Summit in Toronto Nov. 28, where the associate director of the Conference Board of Canada touched on some of the highlights.

"We do have some influence with government and we hope this will lead to greater action," John-Charles Le Valleé said.

Not only do most Canadians eat too much, they're out of shape. Only one in five Canadians meet the physical exercise guidelines set out by the Canadian Society of Exercise Physiology.

On top of that, far too much food is wasted.

"It's a massive issue. We over consume calories. We over purchase calories," Le Valleé said.

"We prepare too much food and we don't understand the issues surrounding it."

For most, the right choices are well within reach but for at least four million Canadians, food insecurity is an issue.

Nunavut, by far, has the greatest level of food insecurity. More than 25 percent of people 12 years of age or older fell into the category in the territory. In most provinces, food insecurity has been hovering around seven percent.

Food security also varies according to demographics. Single parent households and indigenous people are far more likely to be food insecure. Nunavut again stood out in the statistics with about half the indigenous population considered to be moderately or severely food insecure.

Le Valleé also touched on the choices Canadians make.

Canadians, on average, are consuming too few fruits and vegetables and too little fish and seafood. We are not getting enough vitamin A, vitamin D and calcium on average. With iron, consumption rates for men are adequate but are deficient for women.

Canadians, on average, consume far too much saturated fat, except for in Ontario and Newfoundland and Labrador. Quebecers had the worst rating.

We're consuming too much salt throughout Canada, with the per capita consumption in all provinces exceeding the recommended teaspoon of table salt per day. Average consumption tended to be lower in Ontario and Newfoundland and higher in British Columbia and Quebec.

When it comes to diet-related health conditions, Newfoundland is in the unenviable position of having the worst or near worst ranking in all categories: Type 2 diabetes, obesity, high blood pressure, hypertension, gastrointestinal disease and alcohol over-consumption.

While people can make the wrong choices no matter how well they're informed, Le Valleé said the

level of food literacy in Canada is relatively low.

According to another speaker at the summit, Dr. Elaine Chin, Canada's nutritional recommendations could be better. Chin prefers the recommendations from the Harvard School of Public Health.

Canada's Food Guide recommends the regular intake of dairy products or alternatives. Harvard suggests consumers consider "looking beyond" dairy as a source of calcium. In addition, Harvard recommends that red meat be consumed sparingly in favour of fish, poultry, beans and nuts while Canada's Food Guide doesn't make the distinction.

Le Valleé said Canada received an A rating for food safety, B ratings for the healthfulness of food and household food security, a B-minus for industry prosperity and a C-plus for environmental sustainability.

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Folly Baugh, AAg
AEGP Coordinator
WUQWATR
Lanigan, SK

Folly provides water related education, outreach and awareness for farmers and producers in the Wascana-Upper Qu'Appelle watershed. He delivers programs such as the Farm Stewardship Program to help raise awareness of erosion, water quality and other agri-environmental related issues.

"Agriculture plays an important role with the environment; being registered as an agrologist provides confidence to the public and my producers that my advice is professional and accountable."

Folly was raised in Star City, SK. He received a Bachelor of Science in Renewable Resource Management and a minor in Agribusiness from the University of Saskatchewan. Folly joined WUQWATR in 2016.



Matthew Hordos, AAg
Regional Agronomy Manager
Cargill
Raymore, SK

Matthew manages the Saskatchewan Cargill agronomy team. He provides support, leadership and advice to the team so that together they can provide sound agronomy knowledge and advice to crop inputs customers.

"Having a professional agrologist (PAg) designation promotes awareness to the public and my customers that the advice I provide is credited and knowledgeable."

Matthew was raised on a mixed farm southeast of Raymore, SK. He received a BSc degree in Biology from the University of Saskatchewan. Matthew previously worked with Monsanto before joining Cargill in 2014.

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LIVESTOCK

THE TWISTS AND TURNS OF CALVING

Dr. Roy Lewis describes identification and action needed to address torsion during calving. | **Page 63**



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LIVING OFF THE LAND



Cattle and horses graze on a cold day south of High River, Alta. | MIKE STURK PHOTO

ANIMAL HEALTH AND WELFARE

Little impact from antimicrobial reduction

Producers in the Netherlands increase biosecurity and avoid group treatment of animals to slash antibiotic use by 58 percent since 2009

BY **BARB GLEN**
LETHBRIDGE BUREAU

OTTAWA — Producers in the Netherlands and around the world feared that animal health and livestock economics would suffer when the Dutch government drastically reduced the use of antimicrobials in livestock.

Their fears proved groundless. Livestock antimicrobial use in the country has dropped 58 percent from 2009, but there has been no increase in disease incidence and no indication that the reduction has had a negative effect on animal health and welfare.

So says Dr. Jaap Wagenaar, chair of clinical infectious diseases in Utrecht University's veterinary medicine department, who spoke at the December conference of the National Farmed Animal Health and Welfare Council.

"In the Netherlands, we have not seen any negative effect on animal health and animal welfare after the reduction," said Wagenaar.

Producers now make greater use of vaccination and have moved toward individual rather than group treatment of animal health problems, he said. Increased biosecurity and other preventive treatments are also involved.

That said, Wagenaar also told the gathering that antimicrobials are nevertheless vital.

"Animal husbandry without antimicrobials is impossible. I really hate the systems that say 'raised without antimicrobials' ... because it's impossible and it's not fair to the

consumer because they think that when you start with an animal, you can go through the process without treatment."

The use of antimicrobials in both livestock and people is under scrutiny because of an increase in antimicrobial resistant (AMR) bacteria, which render common drugs useless to fight infection.

Overuse of such drugs increases



JAAP WAGENAAR
VETERINARIAN

AMR and has led the World Health Organization, the Food and Agriculture Organization and the World Organization for Animal Health to develop policies to limit their use.

"There is really an urgent need to do something," said Wagenaar, quoting research that says 700,000 people a year die from treatment failures caused by AMR.

Those losses could reach 10 million by 2050, he added.

The Netherlands started its AMR policy in 1994, and fluoroquinolones, commonly used in poultry, were among the first antimicrobials to be limited.

The extent of resistant bacteria wasn't well known at that time, but the 2005 appearance of the AMR known as MRSA (methicillin resistant staphylococcus aureus) on veal and hog farms, and in the farmers themselves, raised awareness.

An outbreak of Q fever in 2008-09 further increased public awareness of the relationship between livestock and human medicine, said Wagenaar, even though Q fever, carried by pregnant goats, has nothing to do with AMR.

The Dutch government decided to gradually reduce antimicrobial use in livestock. Among its policies was a ban on fluoroquinolones unless analysis showed no other alternative. Prophylactic use of antimicrobials was banned.

Wagenaar said antimicrobial use by veterinarians is tracked and monitored with data on how many animals where treated, where and when. A medical authority analyzes the data and the trends by livestock sector. These are compared to benchmarks.

Producers receive reports every quarter showing how they compare to the average use of antimicrobials in their sector.

"This works extremely well,"

You are a well organized country. You can have good biosecurity, good vaccination programs. You have professionals and farms working. You have good veterinarians. I think you can do the same thing as in the Netherlands.

JAPP WAGENAAR
VETERINARIAN

Wagenaar said. "I can tell you that there are farmers that are already low, but they want to be the lowest."

AMR is monitored by swabbing healthy animals when they are sent to slaughter. Trends show a reduction in the amount of AMR found, Wagenaar said.

AMR prevalence data is harder to collect in humans, who don't regularly submit to rectal swabs.

Dr. John Conly, co-director of the Snyder Institute for Chronic Diseases at the University of Calgary and a consultant to the World Health Organization on AMR, agreed that use of antimicrobials in human treatment play a role in AMR development.

Antimicrobials are vital for treating life-threatening conditions, but some are also used to prevent

health problems, such as during and after surgery.

Conly referred to an American study that found 56 percent of hospital patients are given antibiotics.

He said that likely contributes to development of AMR, and resistance often evolves from a low level to a higher level.

Wagenaar said public pressure played a vital role in implementing policies in the Netherlands. He thinks other countries could implement similar policies to combat the AMR problem and protect existing treatments for both humans and animals.

"I think that you in Canada can do a lot," he said.

"You are a well organized country. You can have good biosecurity, good vaccination programs. You have professionals and farms working. You have good veterinarians. I think you can do the same thing as in the Netherlands."

Other countries don't have those advantages, he added. Producers may use counterfeit drugs, diluted drugs or those that are improperly stored before use.

Conversely, they may not have access to any drugs at all. As well, knowledge about AMR is limited in some countries, and lack of veterinary services is a factor, as are animal housing conditions, biosecurity and climate. It may be hard to know where to begin a fight against AMR, said Wagenaar.

"This should never be a reason that you should do nothing."

Research claims 700,000 people a year die from treatment failures due to antimicrobial resistance

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CANADA BEEF SURVEY

Survey puts bite on consumer beef preferences

Results help industry with marketing programs

BY BARBARA DUCKWORTH
CALGARY BUREAU

Men eat more beef than women and worry less about following a diet.

Those tidbits of insight into consumers are used to build a loyal following for Canadian beef.

"Brand loyalty has a direct link to consumer spending, which will bring money all the way back to producers. We hope to measure that in the future," said James Bradbury, brand officer with Canada Beef.

A wide ranging project surveyed stakeholders and ordinary beef consumers from Canada, China, Japan and Mexico. It was presented at the December annual meeting of the Alberta Beef Producers in Calgary.

The study showed those with better incomes eat more beef. Men aged 18-54 ate more beef than women.

Most beef is eaten at dinner time and many consider it a special occasion meal.

Those who responded to the survey were divided into groups based on their responses. Knowing where a consumer fits helps organizations develop more targeted marketing programs.

The largest group was defined as the Canada loyalist and tends to be women aged 30 to 54.

This person is proud of Canada and believes the cattle are healthier and the beef is better than that raised in the United States or other countries.

Beef is considered a quality food and they love eating it.

They expect to find Canadian beef in groceries and restaurants and they will buy a product if they know it is Canadian.

The next group is the hedonist

who loves the taste of beef and tends to eat more and spend more than any other group. They prefer hamburgers and steaks.

Mexicans are the greatest beef hedonists. They are the largest beef consumers among the countries surveyed.

They tend to spend more and are generally men aged 30-54.

The ranching romantics believe Canada has the perfect environment for raising beef.

Chinese want quality

The Chinese lead the way among the romantics. They like the heritage and tradition of the ranching lifestyle. They tend to spend less on beef but they have a high trust factor and are looking for a premium product.

The scientific supporters make up a small segment. They believe the product is safe and ethically produced and will spend more for those attributes. They have a high level of trust in the system. This group represents about eight percent of the Canadian population and is made up almost entirely of men.

The ethically concerned is a very small group made up mostly of women. Within that group is a group of younger females who are 18 to 29 years old and lean toward vegan and gluten-free diets.

They are concerned about the environment and animal welfare.

"These are not supporters of our brand message and they don't recommend our brand to others," Bradbury said.

Those concerned about health are mostly young women. Globally, they represent about two percent of the survey group.

They devote considerable time to researching food and cooking,



A Canada Beef survey of consumers from several countries found perceptions of Canadian beef quality and safety. | FILE PHOTO

They are suspicious of mainstream media and rely more on social media. They get information on food from television and blogs.

They are concerned that Canadian beef could be unhealthy, risky or carcinogenic. They are not beef supporters and not likely to recommend it.

The information from the survey can provide direction for future promotions.

The survey also asked about perceptions of Canada, as well as

where people get their information.

Perceptions of Canada are good. Icons like Mounties, skiing, hockey, landscapes, nice people, prosperity and a good quality of life are associated with Canada.

"They love hearing about producers. They love seeing the pictures. They already believe you are hard working, honest people," Bradbury said.

When asked about information sources, all four countries ranked

health experts as number one.

Culinary experts are trusted sources of information in Canada and Mexico.

In Japan, newspapers are considered the best source of information, as well as government agencies.

Friends and family are trusted in China so social media may play a bigger role in getting the information to the public there, he said.

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ALBERTA RANCHES

No new cases of TB found; investigation continues

BY BARBARA DUCKWORTH
CALGARY BUREAU

The investigation into bovine tuberculosis continues in south-eastern Alberta.

Cows from quarantined herds that did not react to TB tests are being processed at Cargill Foods in High River, Alta., and JBS Meats in Brooks, Alta. The beef is safe for human consumption.

Animals that tested positive and calves are being handled at a federal plant in Lacombe, Alta., and those carcasses are rendered, said Karin Schmid, production specialist with Alberta Beef Producers.

The Canadian Food Inspection Agency reported as of Jan. 4 there have been no new confirmed cases, but trace-outs and trace-ins continue. About 50 premises and 26,000 animals are affected.

The trace-outs look for animals that left the original infected herd

while the trace-ins identify animals that were introduced to the herd.

"These are cattle that came into the original infected premises in the last five years so we are looking at a significant period of time when cattle are bought and sold," Schmid said.

The investigation has been larger than normal because of the large herds in the region and the extent of mixing that occurred among cattle in community pastures.

In addition, the CFIA plans to work with the infected herd to develop disinfection plans before restocking can occur.

During hunting season, about 900 elk were removed from CFB Suffield base and none tested positive for tuberculosis.

"So far nothing suspicious has been reported," she said.

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LIVESTOCK PROFITABILITY

U.K. targets fertility, feed efficiency

Data from the country's detailed traceability system is used to make genetic improvements in the herd

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — A relentless struggle with variable profitability is often the last straw for beef producers, whether they are in the United Kingdom or North America. “The problems confronting the U.K. beef and dairy industry are extraordinarily similar to those confronting North America, particularly here in Canada,” said Mike Coffey, a genetic researcher at Scotland's Rural College.

Processors are concerned about dwindling supplies as more producers exit the business, he said at the Livestock Gentec annual meeting held in Edmonton in late fall.

Those who remain are looking for creative ways to gain profitability.

One approach is to find more efficiency with crossbreeding and getting cattle to market sooner.

The average age at slaughter is around 24 months, but costs escalate if producers keep fattening

cattle beyond that point.

“It costs more to keep these animals after that point than they are worth,” he said.

“Age at slaughter is a source of huge losses. The speed from which you can get animals from a calf to slaughter is of the essence in terms of controlling profitability.”

The dairy sector provides half of the British beef supply. The top three most common dams for the beef sector are the Holstein at 46 percent followed by Limousin and Angus.

Until a few years ago, dairy farmers destroyed bull calves at 24 hours of age because they had no market value. A retailer backlash against the practice forced them to find new uses for these calves and farmers are now breeding half their dairy cows to beef bulls, he said in an interview.

The Holstein and cross-bred calves are weaned at 12 weeks and may be finished on the farm or sold to producers who grow them out.



Overwintering cattle can kill profits, says a genetic researcher from Scotland. | FILE PHOTO

“A lot of them finish on grass because they think grass is better. If they feed them grain, they get rid of them quicker,” he said.

“My argument is, it is not a question of whether you feed them grain or whether you feed them grass. You should feed them so their profitability is maximized.”

Many of these cattle are born in the spring and kept over two winters, living indoors because of inclement weather.

“In the U.K., the second winter is the killer for profitability,” he said.

“If you have to bring them in and feed them in the second winter, that is the end of all your profit.”

Finding and raising efficient animals is one way to reduce time on feed.

A four-year project funded by the government works with co-operating farmers, who collect feed intake and efficiency data using the Grow Safe monitoring system. They are also submitting phenotypic information that can be used to build genotypes.

Genomics in the U.K. have taken off quickly in all the main livestock species and sharing of information has been excellent among researchers and producers who adopt the new technology.

Data collection is aided in part by the British cattle movement service, a highly detailed traceability system constructed as a result of the BSE epidemic. All cattle are registered, and records are maintained on births, deaths, breed, sex, pedigree and movement.

Video image analysis and carcass traits such as weight, fat and conformation from abattoirs are also added to the database to further genetic analysis.

One of the outcomes of this work is the development of breeding values on Holstein bulls for their beef characteristics.

This could introduce muscularity traits to dairy cattle headed for the beef sector.

Milk yield declined, but the animals' general robustness improved.

“A cow that is slightly more muscular survives longer and has less mastitis and is more fertile,” Coffey said.

Mid-infrared technology is also being used to assess milk for fat and protein components. This information has also been retained to predict fatty acid content, energy balance, fertility and the risk for ketosis and acidosis.

The work involves researchers in the U.K., Ireland and Canada.

Limousin is the most popular beef breed in the U.K., and the breed society is working on genomic improvement. Work is also ongoing with some of the largest British meat processors to reward producers for better beef.

There is no organized recognition of meat quality in the U.K.

The Limousin Breed Society helps farmers collect genetic information on their animals on the farm. The information is then published on the top bulls.

“The implications of that is that there is a large benefit to the industry,” he said.

“Large numbers of records are now used on economically important traits.”

Producers can select for carcass quality and specific changes to the animal to make it stretchier for a bigger strip loin.

“Limousin breeders cannot only select for carcass; they can actually change the shape of their animals,” Coffey said.

“The Limousin Breed Society has spent the last four years meeting regularly with the processors, and that activity itself is beneficial as each side becomes more aware of how things work on the other side,” he said.

“You end up with much better signalling with different parts of the supply chain.”

The discussion has moved on to how to make this information available to farmers so they can make further genetic improvements in feed efficiency, female fertility and meat quality.

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STEAKING OUT

THE CONSUMER

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ANIMAL WELFARE

Deadline nears for veal code input

LETHBRIDGE BUREAU

Public comments are being accepted until Feb. 14 on the draft code of practice for the care and handling of veal cattle.

The code is one of many coordinated by the National Farm Animal Care Council using a process that involves multiple stakeholders and interest groups that want input into animal handling practices.

As with other codes, the draft veal code includes findings from a scientific committee that identified priority welfare issues.

Those priorities include housing and facilities for veal calves, which include recommendations on group size, space allowance, age at introduction and disease.

Also on the welfare priority list is fibre in the veal calf diet, risk factors

for abomasal (fourth stomach) damage and milk feeding practices such as frequency, daily requirement and satisfying the desire of calves to suck.

The code of practice for veal calves was last updated in 1998. The new code is expected to be finalized by this fall.

The code development committee is chaired by Robert Wynands, a veal producer and president of the Canadian Veal Association.

In an NFACC news release, Wynands and Jeffrey Rushen, who represents the Canadian Federation of Humane Societies on the committee, both encouraged public input to ensure the final code is reasonable for producers and also reflects the values of Canadians.

The draft code can be found at www.nfacc.ca/codes-of-practice/veal-cattle.

TWISTED UTERUS

Successful births possible even with uterine torsions

ANIMAL HEALTH



ROY LEWIS, DVM

Uterine torsions are rare compared to other calving difficulties, but if producers learn to recognize cases and act quickly, most calves can be saved.

Producers must learn to avoid the mistake of attempting to pull calves in these situations.

I have never seen an actual percentage of torsions because they are often not documented, but my guess is that it occurs once in every couple thousand births. Larger producers may experience one every few years.

At a practice I worked at, which included many cow-calf operations, we saw upward of a dozen or more yearly.

In practice, I always had the producer feel in the vaginal canal when we diagnosed a uterine torsion so they would learn to recognize the feeling. I do the same thing with new vets or student vets. Once you examine one, it is hard to miss it the second time.

A torsion is really when the free portion of the uterus (where the calf is) twists over on itself. The vagina is anchored by soft tissue in the pelvis.

A uterine torsion is similar to putting a golf ball in a sock and giving the ball a 180 or 360 degree twist while holding the open end of the sock stationary.

Once that occurs, you cannot reach in and pull the golf ball out.

In a uterine torsion situation, the initial birthing report from a producer might be similar to a full breech calf (coming tail first) where the cow or heifer looks like it should have calved hours ago, but nothing has happened.

The cow is bagged up with heavy udders and has been nesting, yet no waterbag or heavy straining has started.

I tell experienced producers that if they suspect something is wrong, they are probably right. This is especially true if they know the cow's history and it has calved normally in the past.

The cow's nesting and bellowing behaviour, or an animal that looks uneasy for prolonged periods, points to potential birthing problems: a breech, other malpresentation, or a torsion.

It is best to vaginally examine the cow in these cases.

When examining a torsion, you will usually be able to reach the

calf. Initially, you will feel bands of tissue running this way and that, similar to running your hand down a corkscrew.

When you reach the calf, your hand may be upside down and the calf may be upside down. The degree of the torsion will determine the tightness of the opening.

Generally, the cow's contractions line up the calf to be presented normally, so if it is upside down or sideways and you feel these bands of tissue, it is likely a torsion.

When one examines a cow that isn't ready to calve, you go straight in the vagina and run into a closed cervix that feels like a round doughnut with a hole in which you may be able to get in one or two fingers.

A torsion feels much different. It has an uneven opening with the cervix generally open enough to get your arm through and touch the calf. The water bag will usually be unbroken.

Once a torsion is identified, it is imperative to get veterinary intervention. Veterinarians have several methods to detorse the uterus and if done successfully, the calf can be delivered alive out the back end, provided it was alive to start with.

A veterinarian must first determine which way the uterus is torsed — clockwise or anticlockwise — and twist it the opposite way to get it detorsed.

Some experienced veterinarians can detorse by hand by getting the uterus rocking and skillfully flip-

ping it back over.

The cervix will then continue to dilate and the uterus will dump out fluid and the cow will start straining again.

Other methods involve using a detorsion rod or detorsion fork to help untwist the torsion by applying these to the calf's leg. With help from these, an experienced practitioner may apply further force as necessary.

Another method places the cow on its side. The veterinarian then holds the calf while the cow is rolled to untwist the torsion.

It is critical to know which way the uterus is twisted. In my experience, untwisting has been achieved a higher percentage of time by moving the calf clockwise.

If attempts fail, the veterinarian can carry out a caesarean section. In some cases, the calf can be detorsed internally through a C-section incision and then pulled out the back, especially if the calf is dead.

If the calf is tightly twisted, often the calf must be taken by C-section and then the uterus detorsed and sewn up.

There are many things to consider when a uterine torsion is found, but many times a calf birth can be successful, while the cow makes an uneventful recovery. Early detection is the key component.

Roy Lewis works as a technical services veterinarian part time with Merck Animal Health in Alberta.

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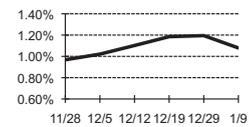
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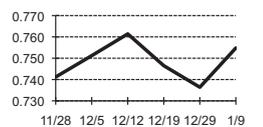
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FOOD INDUSTRY

Agri-food sector key to future

Concentration on environment, health and consumer trust could power agri-food forward, says sector official

 BY ROBERT ARNASON
BRANDON BUREAU

David McInnes realized around 2010 that Canada's agri-food industry needed a new vision, one in which the business of food is deeply connected to environmental stewardship and consumer health.

Seven years later, he's convinced that Canada can become a global powerhouse in agriculture and food if business leaders and policy makers embrace that vision.

"It's so clear to me that this is going to be one of the handful of sectors in the Canadian economy that's going to determine the 21st century for the country," said McInnes, president of the Canadian Agri-Food Policy Institute in Ottawa.

McInnes announced in December that he is stepping away from CAPI, after leading the organization for eight years.

"CAPI's extensive research on the importance of Canada's food processors brought national attention to the country's largest manufacturing sector," said Ted Bilyea, CAPI chair and former vice-president with Maple Leaf Foods.

"(David) also identified new ways to position the Canadian food brand and enhance food exports to China — ideas that have since been adopted by governments."

McInnes joined CAPI in 2009 after working for Nordion, a company that provides medical isotopes and other technologies to the health-care industry.

He attended countless meetings and published many reports while at CAPI, but two signature ideas stick in his memory.

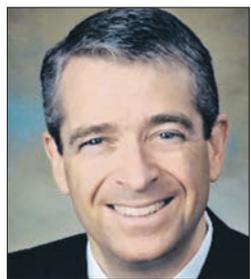
Through consultations with industry leaders, he came to the conclusion that Canada's food sector needed a "destination," or goal, to pull things in the right direction.

That destination is a place where the economics of agriculture and food production are directly linked to health and environmental outcomes for society. Those linkages are the foundation of a trustworthy agri-food sector and possibly a national food policy.

McInnes said industry and government leaders have already moved toward the destination.

"The health-environment agenda is interwoven in the products we buy every day," he said.

"We're seeing it globally and nationally.... Pretty well everyone in the sector is trying to figure out how to meet their greenhouse gas


 DAVID MCINNES
CANADIAN ARI-FOOD POLICY INSTITUTE

commitments, other sustainability commitments and (also) improve nutrition."

McInnes's other big idea at CAPI was the role of consumer trust. The institute hosted a forum in 2015 to answer a provocative question: could Canada become the most trusted food system on the planet?

Some participants at the event, including Maple Leaf Foods chief executive officer Michael McCain, dismissed the idea.

"Canada isn't large enough or

influential enough or competitive enough as an industry ... to try and establish and paint one brush across the whole industry, saying we're going to compete on a different plane," he said.

However, McInnes remains convinced that trust is a massive opportunity for Canada.

"It really became apparent to us that trust is perhaps one of the most important issues facing the entire agri-food sector."

McInnes may be right because companies such as Unilever are spending millions on sustainability initiatives.

The British corporation, with more than US\$100 billion in annual sales, wants to buy food and ingredients from suppliers that take steps to preserve the Earth's water, air, trees and habitat.

For instance, Unilever has committed to buying 100 percent of its palm oil from sustainable sources by 2019.

McInnes said Canada can deliver

on sustainability because it's one of the few countries that can produce substantial quantities without destroying its natural resources.

"What we're seeing now ... many supply chains are grappling with how to produce and supply food without undermining ecosystems.... That fundamentally is a trust issue," he said.

"If we're able to do this well and document this with credible data, this is where Canada can really leverage its competitive advantage. There's a lot we have to do to deliver on this potential, but the promise is huge ... to be the trusted source of high quality, nutritious food."

McInnes remains at CAPI until March, but he hasn't settled on his next job.

In the meantime, he is chairing the non-governmental organization WaterAid Canada, which specializes in water and sanitation issues in the developing world.

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AG STOCKS JAN. 2-6

Canada's December jobs report beat expectations, with big increases in full-time employment. U.S. job creation fell short but wages are increasing. For the week, the TSX composite and the Dow both rose 1.4 percent while the S&P gained 1.7 percent and the Nasdaq jumped 2.6 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	44.75	45.36
AGT Food	TSX	35.70	36.75
Bunge Ltd.	NY	70.14	70.83

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	1.99	1.74
Cervus Equip.	TSX	15.50	15.99
Input Capital	TSXV	1.97	2.00
Rocky Mtn D'ship	TSX	9.85	9.42

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	38.74	39.78
Hormel Foods	NY	36.34	35.24
Lamb Weston	NY	36.83	37.77
Maple Leaf	TSX	27.61	28.29
Premium Brands	TSX	66.17	68.88
Tyson Foods	NY	63.32	62.15

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
Ag Growth Int'l	TSX	52.34	53.00
AGCO Corp.	NY	60.54	58.05
Buhler Ind.	TSX	4.45	4.50
Caterpillar Inc.	NY	93.04	93.29
CNH Industrial	NY	8.94	8.64
Deere and Co.	NY	106.49	103.21
Agrium	TSX	135.62	136.32

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
BASF	OTC	92.26	92.15
Bayer Ag	OTC	108.11	103.57
Dow Chemical	NY	57.44	57.42
Dupont	NY	73.38	73.81
BioSynt Inc.	TSXV	7.60	8.00
Monsanto	NY	108.13	105.10
Mosaic	NY	30.80	29.33
PotashCorp	TSX	24.43	24.59
Syngenta	ADR	80.34	79.29

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	91.45	91.84
CPR	TSX	196.74	193.20

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.

Buhler posts loss

SASKATOON NEWSROOM

Buhler Industries posted a net loss of \$2.7 million on revenue of \$274.1 million in the year ending Sept. 30, 2016. That was an improvement over last year when the farm equipment maker lost \$5.3 million on revenue of \$245.7 million.

The company said lower margins, higher interest costs and research and development spending were main factors. This was partially offset by gains on the sale of surplus assets and increased gains on foreign exchange.

Sales for 2017 are expected to be up slightly but margins will be weak because of competition and the rising cost of imported parts.

TAX SAVINGS

Best to sell corporation shares, not land, when retiring

TAKING CARE OF BUSINESS



COLIN MILLER

The Art of the Deal by U.S. President-elect Donald Trump comes to mind when looking at selling the farm.

There can be some “huge” (or “yuge”) tax savings by structuring this deal properly.

For those who are incorporated, structuring the deal includes deciding whether to sell the shares of the farm corporation or sell the land out of the farm corporation.

In most cases, it is more beneficial to sell the shares of the corporation. This results in a personal capital gain and falls under one of the common tax planning rules that give preferential treatment to capital gains over other types of income.

On the other hand, selling the land out of the corporation triggers tax on the capital gain that the corporation must pay. Corporations cannot access the farm capital gains exemption.

There are rules that can be used to minimize the tax, but these layers usually add up to more tax than selling the shares of the corporation.

Selling the shares of the corporation can allow you to use your lifetime capital gains exemption. A common misconception is that you have lost your ability to use the

THE LIFETIME CAPITAL GAINS EXEMPTION ON FARM PROPERTY CAN MEAN A TAX SAVINGS OF

\$250,000

lifetime capital gains exemption when all of your land is owned in a corporation. This is not the case.

The lifetime capital gains exemption on farm property will exempt you from \$1 million in capital gains. This can translate into tax savings of up to \$250,000, depending on which province you live in.

However, using the lifetime capital gains exemption on shares is not as straight forward as using it on

land. You must meet the following rules to do so:

- ensure that more than 90 percent of the corporation assets are farming assets at the time of sale
- ensure that more than 50 percent of assets in the corporation over the past two years are farming assets
- ensure that you will have owned the shares of the corporation for at least two years.

If there are assets that are not

used in farming, such as large cash balances or other investments held within the corporation, you would have to move them to ensure you meet the rules. It is important to know these rules and discuss them with your accountant annually to ensure you are on-side.

You may hear your professional advisers discuss “purification.” This is the planning we do to ensure your corporation is “pure” to meet the above rules and qualify for the lifetime capitals gains exemption.

Common purification strategies include:

- paying higher dividends to strip cash out to a personal level
- setting up a holding company to

hold non-farming assets in order to avoid the personal tax when moving amounts

- setting up a family trust to distribute cash among family members to provide for better income splitting

These strategies allow you to control the amount of non-farming assets in your farming corporation.

Seek professional advice to ensure you meet all of the qualifications before it comes time to sell your farm.

Riley Honess and Chelsea Shaw of KPMG contributed to this article.

Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.

FEDERATED CO-OP

FCL earnings down after poor harvest

SASKATOON NEWSROOM

A continued energy sector downturn and bad harvest weather accounted for lower earnings at Federated Co-operatives Ltd. last year.

For the fiscal year ending Oct. 31, FCL saw revenues of \$8.4 billion from its energy, food, home and building and agro businesses, down from \$9.1 billion the previous year.

“We expect to face difficult waters again in 2017, but we’re positioned to weather these conditions,” chief executive officer Scott Banda said in a recent statement.

“Across Western Canada, FCL and local retail co-ops are making long-term investments on behalf of Co-op members and their communities that will help us respond to challenges posed by market conditions and competitors.”

From net earnings of \$515 million, FCL will return \$364 million in patronage allocations to its member-owners, which are the 200 independent retail co-ops across Western Canada that form the co-operative retailing system.

For more information, visit fcl.crs.

CANADA'S LARGEST INDOOR FARM SHOW



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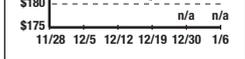
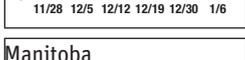
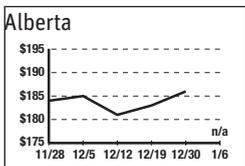


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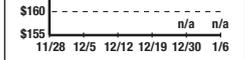
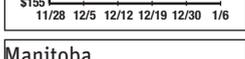
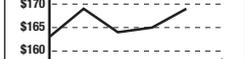
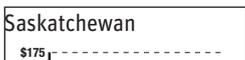
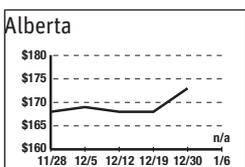


CATTLE & SHEEP

Steers 600-700 lb. (average \$/cwt)



Heifers 500-600 lb. (average \$/cwt)



Canadian Beef Production

million lb.	YTD	% change
Fed	2,001.2	+8
Non-fed	306.5	+17
Total beef	2,307.7	+9

Canfax

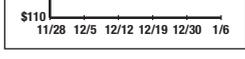
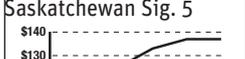
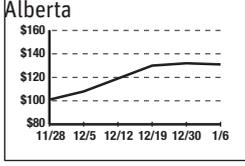
EXCHANGE RATE

JAN. 9
 \$1 Cdn. = \$0.7548 U.S.
 \$1 U.S. = \$1.3249 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

(000 tonnes)	Jan 01	Dec 18	YTD	Year Ago
Alta.	455.2	307.5	6,034.8	5,895.1
Sask.	712.4	387.1	9,848.0	10,085.7
Man.	240.2	143.3	3,714.4	3,684.4

Slaughter Cattle (\$/cwt)

Grade A	Live		Previous	Year ago	Rail		Previous
	Dec 30 - Jan 5	Dec 23 - Dec 29			Dec 30 - Jan 5	Dec 23 - Dec 29	
Steers							
Alta.	161.00	153.00-155.00	176.95	263.50-266.50	257.00		
Ont.	129.69-149.98	114.21-138.19	173.04	246.00-252.00	228.00-240.00		
Heifers							
Alta.	n/a	n/a	176.28	263.50-266.50	n/a		
Ont.	135.74-152.81	121.85-137.27	171.19	245.00-255.00	227.00-240.00		

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	Jan 5	Dec 29	Trend	Year ago	Jan 5	Dec 29	Trend	Year ago	Jan 5	Dec 29	Trend	Year ago	Jan 5	Dec 29	Trend	Year ago
Steers																
900-1000	n/a	n/a	n/a	n/a												
800-900	n/a	n/a	n/a	n/a												
700-800	n/a	n/a	n/a	n/a												
600-700	n/a	n/a	n/a	n/a												
500-600	n/a	n/a	n/a	n/a												
400-500	n/a	n/a	n/a	n/a												
Heifers																
800-900	n/a	n/a	n/a	n/a												
700-800	n/a	n/a	n/a	n/a												
600-700	n/a	n/a	n/a	n/a												
500-600	n/a	n/a	n/a	n/a												
400-500	n/a	n/a	n/a	n/a												
300-400	n/a	n/a	n/a	n/a												

Canfax

Average Carcass Weight

	Dec 30/16		Jan 2/15		YTD 16		YTD 15	
	Steers	Heifers	Steers	Heifers	Steers	Heifers	Steers	Heifers
Canfax	914	824	940	849	919	841	895	823
Steers	914	824	940	849	919	841	895	823
Heifers	824	849	849	841	823	823	823	823
Cows	709	753	747	724	724	724	724	724
Bulls	1,013	1,037	1,016	1,004	1,016	1,004	1,016	1,004

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	Jan 5	Dec 29	Jan 5	Dec 29
National	117.75	117.47	117.47	117.47
Kansas	118.00	117.89	117.89	117.89
Nebraska	117.97	n/a	n/a	n/a
Nebraska (dressed)	n/a	n/a	n/a	n/a

Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	126.50-138.75	n/a
Billings	130.00	n/a
Dodge City	132.50-136.00	n/a

USDA

Cattle / Beef Trade

	Exports		% from 2015	
	Head	Tonnes	Head	Tonnes
Sltr. cattle to U.S. (head)	569,942	1	+14.0	-38.3
Feeder C&C to U.S. (head)	177,365	1	-38.3	+18.0
Total beef to U.S. (tonnes)	229,796	3	+18.0	+13.1
Total beef, all nations (tonnes)	301,541	3	+13.1	n/a
Sltr. cattle from U.S. (head)	n/a	2	n/a	-39.9
Feeder C&C from U.S. (head)	17,493	2	-39.9	-3.6
Total beef from U.S. (tonnes)	123,953	4	-3.6	-8.4
Total beef, all nations (tonnes)	188,187	4	-8.4	

(1) to Dec 24/16 (2) to Oct 31/16 (3) to Oct 31/16 (4) to Dec 31/16
 Agriculture Canada

Imports % from 2015

	Head	Tonnes
Alta. Index 100	131.10	145.00
Sask. Sig. 5	136.98	137.00

*incl. wt. premiums
 Agriculture Canada

Fixed contract \$/c/kg

(Hams Marketing)	Maple Leaf		Thunder Creek	
	Jan 6	Jan 6	Jan 6	Jan 6
Week ending				
Feb 04-Feb 11	139.80-142.58	143.39-145.82	143.39-145.82	143.39-145.82
Feb 18-Feb 25	142.82-142.82	142.01-148.20	142.01-148.20	142.01-148.20
Mar 04-Mar 11	142.96-142.96	139.92-143.56	139.92-143.56	139.92-143.56
Mar 18-Mar 25	143.56-145.23	141.63-146.85	141.63-146.85	141.63-146.85
Apr 01-Apr 08	147.18-150.36	150.19-151.02	150.19-151.02	150.19-151.02
Apr 15-Apr 22	154.87-156.25	151.95-152.23	151.95-152.23	151.95-152.23
Apr 29-May 06	157.42-158.87	150.45-156.65	150.45-156.65	150.45-156.65
May 13-May 20	162.29-167.71	164.55-164.86	164.55-164.86	164.55-164.86
May 27-June 03	169.06-172.51	167.85-168.16	167.85-168.16	167.85-168.16
June 10-June 17	170.68-174.36	169.68-174.84	169.68-174.84	169.68-174.84

Hogs / Pork Trade

	Export		% from 2015		Import		% from 2015	
	Head	Tonnes	Head	Tonnes	Head	Tonnes	Head	Tonnes
Sltr. hogs to/fm U.S. (head)	956,190	1	-14.6	n/a	n/a	n/a	n/a	n/a
Total pork to/fm U.S. (tonnes)	331,233	2	-10.1	176,984	3	-4.2	176,984	3
Total pork, all nations (tonnes)	1,018,524	2	+5.9	200,734	3	-0.8	200,734	3

(1) to Dec 24/16 (2) to Oct 31/16 (3) to Dec 31/16
 Agriculture Canada

Chicago Hogs Lean (\$/cwt)

	Close		Trend	Year ago	Close		Trend	Year ago
	Jan 5	Dec 29			Jan 5	Dec 29		
Feb	63.98	64.65	-0.67	59.85	Jul	76.83	75.50	+1.33
Apr	68.20	66.23	+1.97	65.23	Aug	75.93	75.45	+0.48
May	73.00	71.65	+1.35	73.10	Oct	65.18	65.40	-0.22
Jun	77.20	75.55	+1.65	77.08	Dec	61.58	61.30	+0.28

Cattle Slaughter

To Dec 30	Fed. inspections only	
	Canada	U.S.
To date 2016	2,649,021	30,054,242
To date 2015	2,517,514	28,656,596
% Change 16/15	+5.2	+4.9

Chicago Futures (\$/cwt)

	Close		Trend	Year ago
	Jan 5	Dec 29		
Live Cattle				
Feb	114.83	117.95	-3.12	132.88
Apr	114.20	115.75	-1.55	133.83
Jun	103.98	105.35	-1.37	124.28
Aug	100.23	100.95	-0.72	120.48
Oct	100.10	100.48	-0.38	121.55
Feeder Cattle				
Jan	128.33	131.93	-3.60	159.43
Mar	123.80	126.80	-3.00	157.33
Apr	123.70	126.33	-2.63	157.38
May	122.98	125.03	-2.05	157.18
Aug	123.35	125.03	-1.68	159.00

Beef Cutout (\$/cwt)

	Jan 5		Dec 29		Yr. ago
	Jan 5	Dec 29	Jan 5	Dec 29	
US Choice (uss)	201.52	203.47	230.59	230.59	230.59
Cdn AAA (cs)	n/a	n/a	n/a	n/a	n/a

Sheep (\$/lb.) & Goats (\$/head)

	Dec 19		Dec 12	
	Jan 5	Dec 29	Jan 5	Dec 29
Wool sheep	1.96-2.40	1.96-2.40	1.96-2.40	1.96-2.40
55-69 lb	1.96-2.40	1.96-2.40	1.96-2.40	1.96-2.40
70-85 lb	1.86-2.26	1.86-2.16	1.86-2.16	1.86-2.16
86-105 lb	1.80-2.13	1.80-1.97	1.80-1.97	1.80-1.97
> 106 lb	1.70-1.90	1.70-1.85	1.70-1.85	1.70-1.85

Beaver Hill Auction Services Ltd.

Shipping December

	Jan 2		Dec 19	
	Jan 2	Dec 19	Jan 2	Dec 19
New lambs	2.95-3.20	2.00-3.55	2.00-3.55	2

COLD BATH | A muskrat grooms itself while eating underwater plants on a section of open water at Frank Lake east of High River, Alta. | MIKE STURK PHOTO



THE WESTERN PRODUCER

PUBLISHER: SHAUN JESSOME
EDITOR: BRIAN MACLEOD
MANAGING EDITOR: MICHAEL RAINE

Box 2500, 2310 Millar Ave.
 Saskatoon, Sask. S7K 2C4.
 Tel: (306) 665-3500

The Western Producer is published at Saskatoon, Sask., by Western Producer Publications, owned by Glacier Media, Inc. Printed in Canada.

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Per copy retail \$4.25 plus taxes

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CANADIAN HERITAGE ACKNOWLEDGEMENT

We acknowledge the financial support of the Government of Canada through the Canada Periodical Fund of the Department of Canadian Heritage.

Return undeliverable Canadian addresses to Subscriptions, Box 2500, Saskatoon, Sask. S7K 2C4

EDITORIAL

Newsroom toll-free: 1-800-667-6978
 Fax: (306) 934-2401
 News editor: **BRUCE DYCK**
 e-mail: newsroom@producer.com

News stories and photos to be submitted by Friday or sooner each week.

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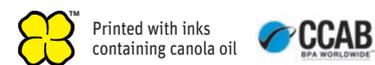
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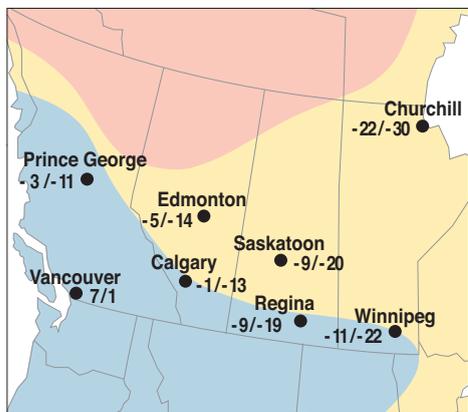
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TEMPERATURE FORECAST
 Jan. 12 - 18 (in °C)



PRECIPITATION FORECAST
 Jan. 12 - 18 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weatherotec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

LAST WEEK'S WEATHER SUMMARY ENDING JAN. 8

SASKATCHEWAN

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Assiniboia	-13.9	-29.1	0.4	20.1	61
Broadview	-13.9	-32.5	0.8	30.3	63
Eastend	-13.1	-26.7	1.7	31.0	71
Estevan	-13.3	-31.7	1.8	58.3	130
Kindersley	-11.3	-28.8	1.8	16.9	58
Maple Creek	-5.4	-26.5	2.2	14.9	38
Meadow Lake	-13.1	-31.5	0.5	14.9	35
Melfort	-14.0	-30.9	0.4	23.5	64
Nipawin	-12.4	-29.8	0.3	23.1	56
North Battleford	-11.6	-31.4	0.2	21.2	57
Prince Albert	-14.2	-32.3	1.5	30.9	78
Regina	-14.9	-31.6	0.8	13.7	38
Rockglen	-13.5	-24.8	2.3	25.2	72
Saskatoon	-13.5	-35.3	0.8	19.7	58
Swift Current	-11.7	-24.8	1.5	8.5	24
Val Marie	-11.9	-32.7	1.5	14.9	46
Yorkton	-14.4	-28.6	0.2	17.9	38
Wynyard	-13.9	-31.9	1.5	20.9	52

ALBERTA

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brooks	-5.4	-27.5	1.4	14.8	52
Calgary	-4.0	-26.3	3.2	25.4	88
Cold Lake	-11.8	-30.9	1.8	23.0	55
Coronation	-7.3	-31.5	1.5	15.1	49
Edmonton	-5.8	-31.9	2.4	31.5	78
Grande Prairie	-1.9	-21.4	12.2	49.0	89
High Level	-4.1	-38.1	2.6	13.8	26
Lethbridge	-5.0	-28.5	0.6	13.3	38
Lloydminster	-10.2	-28.7	1.6	13.0	33
Medicine Hat	-7.2	-25.7	1.9	14.1	42
Milk River	-5.9	-29.0	3.0	27.5	67
Peace River	-3.2	-33.4	5.6	25.4	49
Pincher Creek	-7.4	-27.7	4.1	42.3	68
Red Deer	-5.5	-35.4	1.9	31.6	86
Stavely	-2.2	-21.1	3.5	34.6	84
Vegreville	-7.1	-28.7	2.3	17.2	47

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.weatherotec.mb.ca

MANITOBA

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brandon	-13.2	-30.5	3.3	66.7	138
Dauphin	-11.5	-29.1	0.0	31.2	66
Gimli	-14.1	-28.4	1.6	63.2	124
Melita	-14.9	-31.1	2.1	38.1	76
Morden	-11.8	-26.6	7.3	81.2	141
Portage La Prairie	-13.8	-28.7	1.2	57.2	99
Swan River	-13.4	-30.8	2.2	20.9	40
Winnipeg	-12.9	-31.9	2.3	51.3	93

BRITISH COLUMBIA

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	%	
Cranbrook	-12.0	-31.9	5.6	79.6	76
Fort St. John	-3.0	-23.7	17.0	60.8	101
Kamloops	-4.6	-22.1	7.9	56.5	83
Kelowna	-4.8	-24.3	4.7	63.0	69
Prince George	-6.2	-27.3	7.0	73.0	62

Agriculture and Agri-Food Canada



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