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**DTN AG SUMMIT** | COVERAGE AT WWW.PRODUCER.COM

### Rally time

Canola prices are stabilizing thanks to a rally in vegetable oils. | Page 6



### Predation problems

Escalating conflicts with wildlife have livestock producers calling for changes and compensation. | Page 64



MERGER

## Dow-DuPont to form three businesses

BY ROBERT ARNASON  
BRANDON BUREAU

A merger of Dow and DuPont will create a giant with a market capitalization of \$130 billion and result in cost cutting of \$3.1 billion.

The joining of the two companies may trim their operations in Canada, but assessing the impact is difficult because the deal was consummated just last week.

DuPont spokesperson Dan Turner said the merger will bring together "complementary companies" to better serve farmers around the world, including Western Canada.

In July, DuPont opened its research facility in Lethbridge as part of a commitment to develop corn, soybeans and high yielding canola varieties for the Prairies. Turner said that project would proceed.

"The approximately C\$35 million has already been invested in research and development (developing ultra-early maturity corn and canola hybrids and soybean varieties) in Western Canada over the past five years, so there will be no impact to that existing investment," he said.

SEE DOW-DUPONT, PAGE 5 >>

PRICE FORECAST

# Brace for low prices

**PAGE 4** | Large stockpiles and more crop on the horizon means farmers must be extra careful in managing their money.

| BY SEAN PRATT



MICHELLE HOULDEN ILLUSTRATION



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### FEATURES



**BILL 6 UNION POLL**  
Many farmers at recent rallies have suggested Bill 6 is disguised as a means to bring unions to Alberta's farms. What do you think?



**PRICE OUTLOOK POLL**  
A DTN analyst says increased U.S. corn, soybeans and wheat stocks mean lower prices for them and almost every crop grown in Canada. Do you agree?



**MISSION IMPULSEIBLE**  
Mission Impulseible challenges culinary and food students to create new foods using beans, peas and lentils. Have you got a pulse recipe you would care to share?

### VIDEOS

**SPRAYER DRONE**  
A new drone equipped with a 2.6 gallon spray tank can cover up to 10 acres/hour.



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



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ENHANCED PROTECTION FOR FARM AND RANCH WORKERS ACT

# Bill 6 passes: anger 'all out of proportion'

The bill, designed to protect paid farm workers, sparked protests and threats against members of the NDP government

BY MARY MACARTHUR  
CAMROSE BUREAU

Farmers drove their trucks down highways, parked their tractors outside meeting halls, carried signs on pitchforks, created Facebook pages and presented more than 22,000 signatures in the legislature, all in an effort to kill a controversial Alberta farm worker bill.

But in the end, Bill 6, the Enhanced Protection for Farm and Ranch Workers Act, passed third reading Dec. 10 44-29, almost a month after it was introduced on a farm north of Edmonton.

Once proclaimed, farmers with paid employees will be required to have Workers Compensation Board coverage for their employees by Jan. 1, and the province's 43,000 farms will be required to follow as yet unknown occupational health and safety and labour standards.

It's the unknown details that continue to worry farmers.

Kent Erickson, chair of the Alberta Wheat Commission, said the past two weeks were a whirlwind of legislation, followed by amendments exempting farm families from WCB and occupational rules.

Farmers, ranchers and agriculture groups now need to sit back and see what it all means.

"Now what? What are the amendments truly going to be getting at?" said Erickson.

"What will it mean for us?"

Erickson attended the government consultation meeting in Vegreville and noticed a level of distrust and wariness between the government officials trying to explain the bill and farmers opposed to the bill.

"It was emotional," said Erickson, who saw little value in the town hall style meetings, which became a forum for anti-government sentiment rather than about writing a better farm bill.

"The protestors lost sight of the end game. The goal was to make a better bill that we can make for the farmers. Unfortunately, for some people the goal was to end the NDP government. It's too bad."

Erickson worried that 30 years spent building an image of agriculture as a viable, professional business have been cancelled out by a couple weeks of damage caused by online death threats to the premier and farmers at the public meetings bragging about unsafe practices disguised as character building.

Erickson said he couldn't believe the audience applauding a 10-year-old boy who stood up at the Vegreville meeting to brag about how he could drive a 13-speed truck loaded with bales.

"That kind of example is totally illegal if he took the rural roads," he said. "We're giving excuses to urban consumer that make us look terrible."

In an interview after the bill passed third reading, Alberta premier Rachel Notley said the bill was about protecting paid farm workers rather than dictating how families run their farms.

Notley admits the omnibus bill



Organizers hope a farm safety day may be just the reminder children need to stay safe on the farm. Almost 400 kindergarten to Grade 6 students from the elementary school in Rimbey, Alta., learned about the dangers around grain, water, all-terrain vehicles, livestock and machinery. "This will help provide training and education for the children to keep them safe, as well as their families," said Kaley Segboer, communications co-ordinator for Ag For Life. "This is the next generation of farmers." | MARY MACARTHUR PHOTO

covering workers compensation, health and safety, labour relations and employment standards was handled badly from the beginning.

"It would have been better if we would have launched this bill in better form, but when we understood the issues with it, we moved to correct them with an amendment to make its intent clear," said Notley.

The government was forced to add amendments to the bill making it clear it would cover only paid farm workers and not stop neighbours from helping neighbours and children from working with their 4-H calf or helping collect eggs.

"Bill 6 will ensure ... wage earning workers killed or injured on the farm

will be compensated. It allows people to refuse unsafe work and it will phase in protection similar to those in other provinces after robust consultation," said Notley.

The political damage has been done for many farmers, and the NDP government was seen as out of touch with rural Alberta and farmers.

The amended bill allows Occupational Health and Safety officials to investigate accidents and deaths on farms with paid farm workers but not accidents and deaths on family farms and Hutterite colonies.

Three sisters died in a farm accident near Withrow and a 10-year old boy died on a Hutterite colony in Loughheed within the past six weeks.

Under the bill, neither accident would be investigated.

"Bill 6 is focused on protecting the rights of paid farm workers," Notley said.

"There is no question both of those instances were traumatic and worrisome to the people of Alberta, but those could have easily occurred on an acreage owned by someone that is not a farm, occurred in a back alley in an urban, downtown community.

"That is about the relationship between parents and children and that is not what this bill is about. This bill is correcting the long, unmet need to protect vulnerable paid farm workers who are obliged to follow the instruction of their employers at risk of losing their job

if they don't. That is a different issue."

Erickson said the commission has told the government it supports mandatory insurance, either through WCB or private insurance. It also supported OHS's ability to investigate all farm accidents to allow the industry to improve farm safety.

"Now it's not a safety bill, it's a labour bill," he said.

Wildrose leader Brian Jean said most Albertans clearly oppose the bill, and the party will continue its opposition.

"I am very proud to say Wildrose was the first party to oppose Bill 6 and lead the charge against the bill," said Jean, whose MLAs have hosted their own town hall meetings to allow farmers to voice their concerns about the bill.

"Farmers and ranchers had one simple request: kill Bill 6 and consult with farmers and ranchers."

The government will launch a new round of consultation sessions once the bill is passed to draft detailed regulations for the health and safety and labour requirements.

Erickson hopes there will be a better flow of details between the government, industry sectors and producers.

"Maybe this is a wakeup call that farmers need to be more engaged in their producer groups."

Alberta Beef Producers said in a newsletter: "Going forward, the government will face a tremendous challenge gaining the trust of thousands of farmers and ranchers who feel that their voices were not heard on Bill 6."

The group said it would work with other commissions to ensure "regulations respect the unique nature of farm and ranch work and are practical for farmers and ranchers."

Bob Barnetson, associate professor of labour relations at Athabasca University, said the opposition to Bill 6 is about more than farm safety; it's about troubling economic times in agriculture, especially small family farms.

"This bill provides them with a target to vent their anger, not just the specifics of the bill, but the economic stress that small farms are in," said Barnetson.

"That explains the amount of resistance and the degree of anger that has been shown, a degree of anger which is all out of proportion to what the bill actually does. Some of the backlash is frankly insane, the idea that health and safety is a pretext for seizing guns or expropriating land and force wind farms on the farmers."

Barnetson lays part of the blame on the former Progressive Conservative government, which, unlike other provinces, didn't gradually implement changes to farm safety legislation and labour relations while in power.

"The Conservatives have had 44 years to address this. Hundreds of farm workers and farm people died because of their inaction, and they should be profoundly ashamed of that."

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FOR MORE ON BILL 6, SEE PAGE 16. »

GRAINSCONNECT CANADA

# New grain handler sets up shop

Australians, Japanese plan elevator network

BY SEAN PRATT  
SASKATOON NEWSROOM

An Australian grain company and a Japanese agricultural co-operative are spending \$120 million on a high-throughput grain elevator network in Western Canada.

GrainCorp, which operates the largest grain storage and transportation network in eastern Australia, is investing \$30 million in the venture, as is its business partner, Zen-Noh Grain Corporation.

Zen-Noh Grain Corp. is a subsidiary of Zen-Noh, which is one of the largest agricultural co-operatives in the world and the largest buyer of feed grains in Japan.

The remaining \$60 million will come from debt financing.

The joint venture, known as GrainsConnect Canada, will build four concrete elevators with loop track rail systems, starting in the spring or early summer of 2016.

Warren Stow, North American trading director for GrainCorp Canada, wouldn't divulge the exact locations for the proposed facilities, but the plan is to build two in Saskatchewan and two in Alberta.

Each elevator will have 35,000 tonnes of grain storage capacity and the ability to load 130 to 150 rail cars in 10 hours.

GrainsConnect will focus on bulk shipments of wheat, canola, barley and peas. Product will be shipped through the West Coast to markets in Japan, China and Southeast Asia.

"We'd like to have the most efficient supply chain in Western Canada," said Stow.

"We see it as the only way you're able to compete down the track."

The company is in discussions with an undisclosed west coast grain terminal operator about using its facility to get the grain to market. Stow wouldn't divulge if the facility was located at Port Metro Vancouver or the Port of Prince Rupert.

GrainCorp already owns Canada Malting Co. and operates a grain marketing office in Calgary.

Stow said GrainCorp Canada's export volumes were down in the deregulated post-Canadian Wheat Board export monopoly environment.

"The incumbents don't make it easy on you. We feel that our best opportunity is going to be having a supply chain of our own," he said.

Stow said joining forces with an end-user like Zen-Noh was a key aspect of the venture.

"We feel they're a great partner for us (with) the ability to take a substantial amount of grain pretty immediately," he said.

Tom Steve, general manager of the Alberta Wheat Commission, believes it is a big win for Western Canadian farmers.

"We see this as good news that companies want to invest here. We will produce the grain if they want to buy it and move it," he said.

"It seems as though Canada is a very attractive environment for investment in grain origination."

Steve said the GrainCorp announcement means more delivery options and price competition.

"There are pockets in Alberta and Saskatchewan where we may go from two competitors to three in a local marketplace. That should put increased pressure on the buyers to offer an attractive price," he said.

Dale Leftwich, chair of the Saskatchewan Canola Development Commission, is thrilled another player will be bidding on canola.

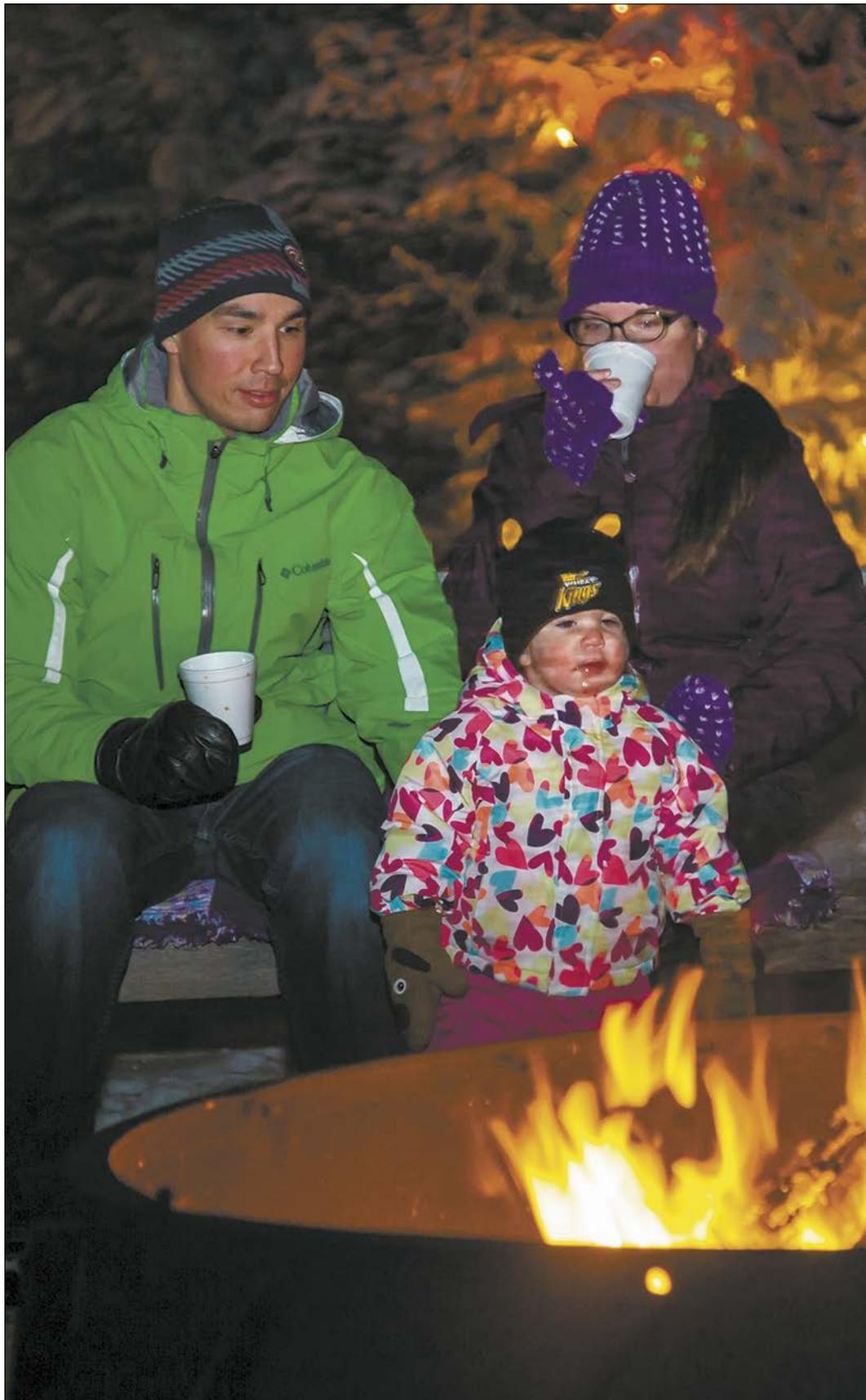
"For a long time there wasn't a lot of capacity and now there seems to be quite a bit, so that's encouraging," he said.

He thinks Zen-Noh may have been partially motivated by the new Trans-Pacific Partnership agreement.

"As the tariffs are being lowered on canola in Japan, this may be something that they looked at and said, 'that's why we want to be (in Western Canada) because canola is more competitive now with soybeans,'" said Leftwich.

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## CHRISTMAS CHEER



The Manitoba Agriculture Museum near Austin stages a Christmas Wonderland every weekend in December featuring light displays, horse-pulled wagon rides, hot chocolate and hot dogs. Keith Au enjoys a cup of hot chocolate with his wife Meaghan and daughter Marissa after their tour through the village. | SANDY BLACK PHOTO

PRICE FORECAST

# How low can it go? Analyst sees grim price forecast

Western Producer reporter Sean Pratt recently attended the DTN Ag Summit in Chicago, which features the latest in weather and market outlook information.

CHICAGO, Ill. — Farmers should brace for lower prices next year, according to data from a leading industry analyst.

Darin Newsom, senior analyst with DTN, said he expects U.S. corn, soybeans and wheat stocks to increase in 2016-17, which means lower prices for those commodities, as well as for almost every crop grown in Canada.

The U.S. Department of Agriculture forecasts 2015-16 corn ending

stocks of 1.76 billion bushels and a 13 percent stocks-to-use ratio.

Newsom expects the already burdensome carryout to get worse next year. Informa Economics forecasts U.S. growers will plant 90.1 million acres of corn in the spring, which would be 1.7 million acres more than this year.

He expects an average yield of 169.7 bu. per acre based on his trend line yield forecast, which would be slightly higher than this

year's average of 169.3.

It would result in nearly 14 billion bu. of corn production and a record 15.8 billion bu. of total supply.

Newsom increased the estimated use for feed, food and ethanol, but it wasn't enough to mop up excess supply. He forecasts ending stocks of 2.1 billion bu. of corn and a bearish stocks-to-use ratio of 15.5 percent.

"To avoid that, we need a weather disaster. The odds probably aren't too good that's going to happen," Newsom told delegates attending DTN's Ag Summit 2015.

A stocks-to-use ratio that high would historically result in a national average corn cash price of

about US\$3 per bu., which is down from the 2015 average of \$3.50.

The soybean outlook is also dismal. The USDA forecasts 465 million bu. of carryout from 2015-16 and a 12.4 percent stocks-to-use ratio.

Informa Economics said U.S. growers will plant 85.3 million acres of soybeans in the spring, which would be up 2.1 million acres from this year.

Newsom forecasts an average yield of 48 bu. per acre, down slightly from this year's average of 48.3.

It would result in slightly more than four billion bu. of production and a record 4.54 billion bu. of total supply.

He increased domestic crush and

exports slightly, but there would still be 699 million bu. of carryout and an ugly stocks-to-use ratio of 18.2 percent.

"Absolutely nothing about that is bullish," said Newsom.

The last time the stocks-to-use ratio was that high was 2006-07, when the national average cash price for soybeans was \$6 per bushel. It would be down from the 2015 average of \$9.55.

However, Newsom said the USDA is notorious for overestimating soybean supply. He believes this year's carryout could be closer to

CONTINUED ON NEXT PAGE >>

## CLIMATE CHANGE

# Agriculture not mentioned in Paris

Climate change reforms should be done 'in a manner that does not threaten food production'

BARCELONA, Spain (Thomson Reuters Foundation) — Climate change is threatening agricultural growth, productivity, prices and a new global goal to end hunger by 2030, says a new report released by the International Food Policy Research Institute.

For example, it is projected to cut per capita consumption of cereals in the Philippines by 24 percent and fruits and vegetables by 13 percent, increasing the number of people at risk of hunger by 1.4 million in 2030 and 2.5 million by 2050, the institute said.

As a result, it is surprising that the world "agriculture" does not appear once in the text of the new global agreement to tackle climate change recently adopted in Paris.

A key reason for this is that developing nations long resisted including agriculture in the climate negotiations, fearing efforts to feed their people would be compromised by pressure to reduce planet-warming emissions from farms.

A 2015 study from the United Nations' Food and Agriculture Organization found that emissions from agriculture are growing, accounting for 11 percent of the global total in 2010.

The Paris climate agreement refers only indirectly to agriculture in terms of making sure people have enough to eat.

Its non-binding introduction recognizes "the fundamental priority of safeguarding food security and ending hunger, and the particular vulnerabilities of food production systems to the adverse impacts of climate change."

The binding part of the deal states that boosting the world's ability to adapt to those impacts and foster climate resilience and low-emissions development should be done "in a manner that does not threaten food production."

However, the FAO welcomed the agreement despite the politics that largely excluded agriculture, noting that it was the first time that food security was



The Paris climate agreement is a historic deal in that most of nations in the world have agreed to take action on climate change. However, agriculture is not included in the text. | REUTERS PHOTO

included in a global climate change accord.

"This is a game changer for the 800 million people still suffering from chronic hunger and for 80 percent of the world's poor who live in rural areas and earn income — and feed their families — from agriculture," FAO director-general José Grazing da Silva said after the deal was reached.

"By including food security, the international community fully acknowledges that urgent attention is needed to preserve the well-being and future of those who are on the frontline of climate change threats," he added.

Others in the agricultural research community and agencies working with small farmers highlighted the widespread inclusion of agricultural policies in the nearly 190 national action plans submitted to the UN as a basis for the climate deal.

Analysis by the CGIAR Research Programme on Climate Change, Agriculture and Food Security (CCAFS) shows agriculture is

discussed in 80 percent of those plans, which is seen as a signal that addressing agriculture in the context of climate change is a priority.

**Climate finance needs to include agriculture as a key sector and support countries to implement the plans they have laid out.**

**BRUCE CAMPBELL**  
CLIMATE CHANGE, AGRICULTURE  
AND FOOD SECURITY DIRECTOR

Kanayo F. Nwanze, president of the International Fund for Agricultural Development (IFAD), said this was a good springboard for approaching top decision makers in developing countries about protecting their farmers from climate change.

IFAD said technical interventions, such as hardier seeds and accurate weather forecasts, are

not enough to help small farmers cope and must be backed up by national strategies, laws and budgets.

One major barrier to helping small-scale farmers adapt to extreme weather and reduce emissions from their activities is insufficient money for research and action on the ground, experts noted.

The CCAFS study of national climate plans found the 48 least developed countries will need funding of \$5 billion per year: \$3 billion for adaptation and \$2 billion for reducing farm emissions.

It is much higher than current commitments to climate funds for agriculture and at least 10 percent more per year than multilateral climate funds spent on agricultural projects in the last decade, it said.

"Climate finance needs to include agriculture as a key sector and support countries to implement the plans they have laid out," said CCAFS director Bruce Campbell.

## for most North American crops

178 million bu., which would result in more palatable 2016-17 ending stocks of 412 million bu. and a 10.7 percent stocks-to-use ratio. Newsom said a stocks-to-useratio of that level would lead to a national average cash price of about \$8 per bu.

The wheat outlook isn't pretty either.

"There is so much wheat worldwide it's going to take a disaster somewhere to prop this market up."

Newsom is forecasting an increase in U.S. ending stocks, which would result in a 41 percent stocks-to-use ratio and a national average cash price that could fall

as low as \$4 per bu., down from \$5 in 2015.

Renewed buying interest from the investment community, which has been steadily selling off its stake in corn and soybeans is one factor that could cause prices to rally next year.

However, that is unlikely because the U.S. Federal Reserve is poised to raise interest rates. It would further strengthen the U.S. dollar, which would not be a good development for export-oriented commodities in the U.S.

"You cannot get investors to buy when you have supplies continue to increase and the U.S. dollar

index going up," he said.

The good news for growers is that the technical market charts are not nearly as pessimistic as the supply and demand fundamentals. The March-May corn futures spread accounts for 48 percent of the total cost of carry for the crop, and the May-July spread accounts for 44 percent of the cost.

Newsom said anything higher than 66 percent is considered bearish, so the corn spreads are surprisingly neutral, suggesting corn could maybe rally as high as \$4.10 per bu.

It's an even better outlook for soybeans. The January-March

spread is 13.5 percent of the cost of carry, and anything less than 33 percent is considered bullish. Soybeans could rally to \$10 if the technical charts are correct.

"The futures spreads are saying the (supply and demand) numbers are wrong," he said. "There is either more demand for U.S. soybeans or less supplies available or the market is just dead wrong, and that's what we saw play out last year."

Newsom's gut tells him the market is wrong, and leans toward a bearish price outlook.

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## DOW-DUPONT MERGER

» CONTINUED FROM PAGE 1

Dow and DuPont announced the merger Dec. 11, which will result in three independent businesses: agriculture, material science and specialty products.

A merger fact sheet said DuPont and Dow's agricultural divisions generate \$11 billion and \$7 billion in revenue, respectively. Combining the two operations will save \$1.3 billion in the form of synergies.

In Canada, DuPont Pioneer focuses on corn, soybeans, wheat and canola. The company has:

- administrative headquarters in Chatham, Ont.
- research centres in Carman, Man., Edmonton, Coteau-du-Lac, Que., and Chatham, Georgetown, Tavistock and Woodstock in Ontario.
- Seed production plants in Lethbridge, Chatham and Ridgeway, Ont.

In Canada, Dow AgroSciences has a:

- head office in Calgary
- global centre for canola breeding in Saskatoon
- Dow Seeds head office in Blenheim, Ont.
- corn and soybean research centre in St. Mary's, Ont.
- field research stations in Carman and Edmonton

Both companies have made significant investments in Canada over the last six years:

- In 2013, DuPont Pioneer spent \$2 million to expand its canola, corn and soybean research centre in Carman.
- In 2013, DuPont invested \$19 million to expand its corn seed production plant in Chatham.
- In 2012, Dow opened a new cereal research and breeding centre in Nairn, Ont.
- In 2009, Dow AgroSciences Canada bought Hyland Seeds, an Ontario based developer of corn hybrids, soybeans, edible beans and cereals.

DuPont Pioneer has been particularly vocal about its commitment to Western Canada.

DuPont Pioneer president Paul Schickler said this summer that the company sees the Canadian Prairies as one of its global priorities for sustainable growth.

"You look at 20 million acres of canola (in Western Canada) and that will continue to drive the business's attention on that crop," he said.

"There are 500,000 acres of corn, which is only touching the tip of the iceberg, we feel. That could turn into millions of acres. There are 1.5 million acres of soybeans. It could be seven or eight million acres and we will be working towards those."

Dow has invested millions to bring its new Enlist corn and soybeans to market in Canada and the United States.

The herbicide resistant trait, which allows growers to spray the crop with glyphosate and a new formulation of 2,4-D, has received regulatory approval in Canada and the U.S.

Dow is waiting on China to accept the trait for import before fully commercializing the technology.

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# MARKETS



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Improved margins could see crushers buy more canola from farmers. | FILE PHOTO

OIL PRICE RALLY

## Veg oil rally stabilizes canola

Crush margins have improved with stronger soy oil prices and a weaker Canadian dollar

BY ED WHITE  
WINNIPEG BUREAU

Just when it needed one, a white knight has ridden to the rescue of canola in the form of a soybean oil rally.

It's a pleasant turnaround for canola growers, considering that Statistics Canada surprised markets Dec. 4 by announcing that farmers had produced more canola than expected.

"It offers a cushion," Greg Kostal of Kostal Ag Consulting said about the soybean oil rally, which has suddenly boosted crushing margins for soybeans and canola.

"If these type of margins were to sustain themselves for multiple months, you'd probably see half-a-million tonnes more canola crush than we would have expected two months ago."

It is a U.S. soybean oil rally that is driving the gains in crush spread, but canola is the bigger beneficiary because of the much higher oil content in canola compared to soybeans.

Canola seeds have 45 percent oil while soybeans are less than 20 percent, making the oil value dominant for canola but secondary for soybeans.

The soy oil rally has been im-

pressive, built on a foundation of longstanding worries about Asian drought and hazy skies caused by fires in Indonesia that reduced palm oil production. However, the rally surged higher recently on hopes the U.S. government will increase soybean oil use in biodiesel and change the structure of support for biodiesel production.

U.S. lawmakers are considering an amendment in biofuel legislation that would shift a US\$1 a gallon tax credit subsidy away from blenders, who can apply it to foreign as well as domestic vegetable oil, and toward domestic biofuel producers, who would buy more North American vegetable oil crops such as soybeans and canola.

"A producer credit would inject a bit more sustained crush margin than a blender's credit would," said Kostal.

Jon Driedger of FarmLink Marketing said better crush margins

will help reduce the Prairies' canola surplus this winter.

"It helps give them (crushers) a better bottom line and an incentive to keep their plants cranking along," said Driedger.

Processors are crushing more canola this year than last year, and the effects of the soybean oil rally are just beginning to be felt.

"If the bean oil rally continues, it should help keeping that pace of crush going ahead of last year," he said.

Canola crush margins had been weak for months.

The world soybean market is stacked with wild cards. The South American crop is growing, El Nino is happening, Argentina is reducing or eliminating export taxes on crops and China might begin moving stockpiles more aggressively.

Most of the factors have seemed bearish for months, but palm production problems in Asia and

possible moves in the United States to boost biodiesel production have given a more neutral balance to the oilseed outlook.

"It's helped offset some of that bearish tone we've had," said Driedger.

U.S. soybean growers aren't seeing many gains from the soybean oil rally. Even if U.S. crushers see moderate gains in crush margin, the U.S. dollar is high and soybean prices haven't rallied much.

However, it's better for canola, with a \$15 per tonne gain in futures values since the fall low set in mid-November. That differential will likely continue if the soybean oil rally survives, favouring canola and other oil-heavy crops.

"It helps sunflowers and canola because they're both high-oil crops," said Mike Krueger of the Money Farm in Fargo, North Dakota.

The analysts said increased U.S. vegetable oil crop consumption for biodiesel would likely help canola-focused processors the most. That in turn would help reduce supplies of canola in North America, helping canola basis levels across western North America.

SINCE MID-NOVEMBER, CANOLA FUTURES  
HAVE INCREASED

# \$15 per tonne

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CATTLE MARKET

## Producers see major cattle price correction

Herd expansion may increase supply sending prices down further

BY BARBARA DUCKWORTH  
CALGARY BUREAU

What goes up must come down, and cattle markets are no different this fall.

"We have seen some significant changes. This year we probably have lost \$70 per hundredweight on our calf prices," Brian Perillat, senior market analyst for Canfax, told the Alberta Beef Producers annual meeting in Calgary Dec. 9.

"We lost a lot more dollars this fall from our spring highs to our fall low."

U.S. markets peaked in November 2014 and have been trending downward ever since, while Canadian prices have just started to fall from a high of \$330 per cwt. for calves in April.

"A few years ago we talked about \$2 (per pound) calves being exciting. It was a phenomenal run-up in prices," he said.

"This correction is the biggest of all time in terms of dollar values."

Substantial herd expansion is expected in the United States in the coming year, which will result in more cattle to fill the system from the feedlots to the packing sector.

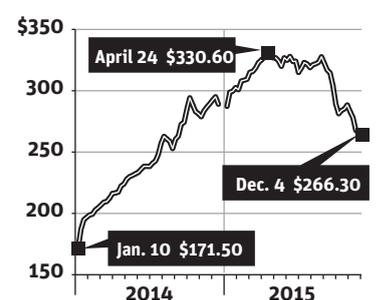
U.S. cow slaughter is 32 percent below the five year average, and heifers sales are 22 percent below the five year average.

CONTINUED ON NEXT PAGE >>

### FEEDER STEER PRICES FALL

Western Canadian feeders rallied for more than a year, with 550 pound steers peaking at a record high in April at almost \$331 per hundredweight. Prices began to drop sharply in August and continued the decline through the fall, posting the biggest ever decline between spring high and fall low. However, prices in Canada have benefited from the decline in the loonie.

Fed steers, 500-600 lb., \$/cwt



Source: Canfax | WP GRAPHIC

CHINA, CANADA RELATIONSHIP

# Chinese leader sees new hope for trade

Canadian and Chinese officials outlined sectors where trade would benefit both countries

BY ROBERT ARNASON  
BRANDON BUREAU

Prime minister Pierre Trudeau made history in the fall of 1970 when he established diplomatic relations with communist China.

It's been 45 years, but the Chinese have not forgotten.

"The Chinese are very sentimental about historical milestones," said Sarah Kutulakos, executive director of the Canada China Business Council.

"Trudeau (represented) ... the first major western country that recognized China."

Canada's relationship with China may improve now that Trudeau's son, Justin, is prime minister, which could revive a concept that's been on the shelf for more than three years: free trade between the two nations.

Chinese and Canadian officials released a joint document in 2012 called the Canada-China Economic Complementarities Study. It identified seven sectors, including agriculture, where increased bilateral trade would benefit both countries.

Kutulakos said China was eager to build on the study and pursue free trade, but Canada was a reluctant dance partner.

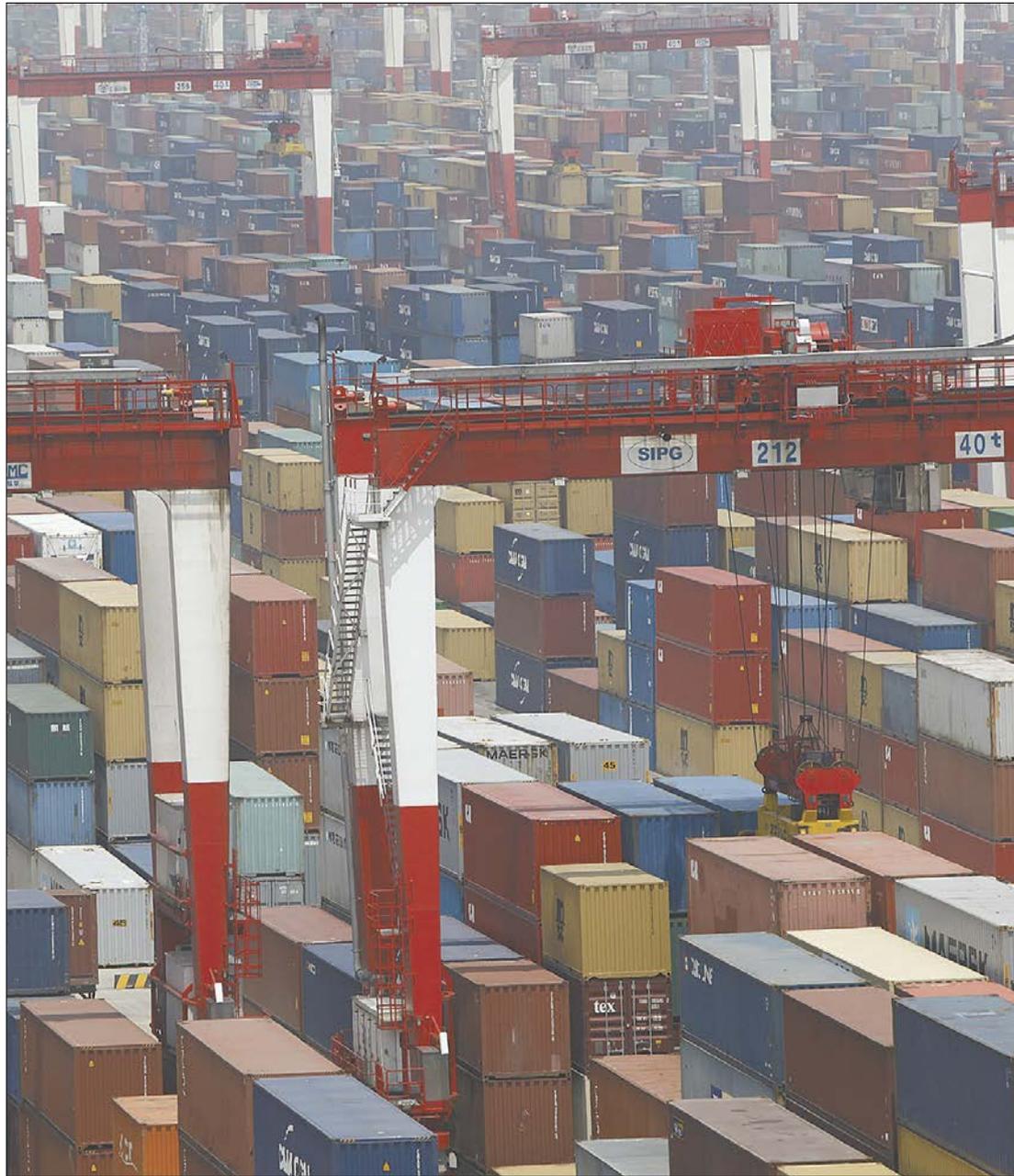
"Unfortunately that was a time when Canada was unwilling for a variety of reasons.... (The government) was busy with agreements with South Korea and Europe," she said. "(But) over the last three years China has continued to say, 'let's start.'"

In November, Chinese president Xi Jinping signalled in a lengthy news release at the G20 summit that China is keen to work with Canada's new prime minister.

"Forty-five years ago, your father, prime minister Pierre Trudeau, made the historic decision of establishing diplomatic relations with the People's Republic of China, showing extraordinary political foresight," the release said.

"Under the new situation, China and Canada should enhance political mutual trust and strengthen exchanges and contacts between their leaders to develop a long-term, sound and stable strategic partnership."

Kutulakos said Trudeau's election victory could reignite free trade negotiations, but Canada's new government should also be motivated by global competition.



China's import and export trade is vast as this container port attests | REUTERS PHOTO

**Under the new situation, China and Canada should enhance political mutual trust and strengthen exchanges and contacts between their leaders to develop a long-term, sound and stable strategic partnership.**

NEWS RELEASE BY CHINESE PRESIDENT XI JINPING

"The Australia agreement, I believe, was a big wake up call," she said, referring to the free trade deal Australia signed with China last year.

"There are so many similarities in

our economy and the complementarities that exist in agriculture and in resources. All of a sudden, in a variety of sectors ... Australia has a quantifiable advantage."

According to an Australian gov-

ernment fact sheet on the deal, the country already dominates a few categories of Chinese food imports.

Australia exported 128,000 tonnes of beef to China last year, which as 50 percent of China's beef import market. It is likely to grab an even larger share of an expanding protein market as China eliminates 12 to 25 percent tariffs on Australian beef.

A tariff advantage can be a difference maker in a low margin business such as meat.

Claire Citeau, executive director of the Canadian Agri-Food Trade

## CANADIAN BEEF IN CHINA

- This has been a stellar year for Canadian beef exports to China. According to Canada Beef, exports to China were up 169.3 percent from January to the end of August, compared to the same period last year.
- In 2014, Canadian beef exports to China were 4,986 tonnes between January and August. In the same period this year, beef exports to China were 13,429 tonnes.
- By August of this year, Canada had nearly doubled its entire beef exports to China for 2014.

Alliance, said South Korea is a case study of how Canada can quickly lose out in a key market.

The United States signed a free trade deal with Korea in 2012, creating a schedule to reduce Korean tariffs on many products, including pork. Meanwhile, Korean tariffs on Canadian pork remained at 22 to 25 percent.

Exports of Canadian pork to South Korea took an immediate hit, dropping from \$223 million in 2011 to \$129 million in 2012 and \$76 million in 2013.

The federal government signed a free trade deal with Korea last year, restoring the competitiveness of Canadian meat exports to the Asian country.

Kutulakos said China may eventually join the Trans-Pacific Partnership trade deal, but Canada can't wait that long. There is an opportunity to sell agricultural products and provide environmental services to China, she added, but the window won't remain open forever.

"(Opportunities) are there, right now, for the taking," she said.

"But once China solves those problems ... we are not nearly as appealing."

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## » CONTINUED FROM PREVIOUS PAGE

This indicates more breeding stock will be on hand in 2016.

There has been a shift from some of the tightest cattle and beef supplies in history in North America. More beef will be on the market as herds grow.

Meanwhile, poultry supplies continue to grow, and U.S. pork production could surpass beef production for the first time since 1952.

It's a different story in Canada, where cow slaughter has slowed but young females are not being retained for breeding because

they still earn more at the auction market.

"The real expansion factor is that we are not keeping any more heifers. The drought impacted this quite a bit, but realistically we need to keep 800,000 heifers rather than 600,000 heifers across Canada," Perillat said.

"We cannot expand the herd by killing less cows."

Profitability has remained strong for the cow-calf sector, but others are not performing as well.

Feedlots paid a lot for calves and are now losing substantial amounts of money on fattened cattle after enjoying a solid run of profits for 18

months. The sector took a downturn this fall, and losses are approaching \$300 per head if no risk management was in place.

However, Canada is not exporting live cattle so feedlots can place them here and keep processing plants running.

"The biggest market driver in Canada has absolutely been the Canadian dollar," he said.

"For every cent movement in the dollar, you can add five cents to calf prices."

The herd is smaller and less beef should be produced, but the shortfall is being made up with record sized carcasses.

The average Canadian steer carcass reached 915 pounds last year, and this year it was more than 950 lb. Steer slaughter is down seven percent, but beef production is down only three percent because carcasses are so much heavier.

Big cattle alter the grading results. The number of AAA grade cattle increased but the yield grades are down because the cattle are fatter. That extra fat is of low value, but feedlots are paid by the pound, so it is one way to make money.

"Putting on weight is cheaper than buying new calves," he said.

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CANADIAN DOLLAR

## Weaker loonie to linger into 2016-17 crop year

### MARKET WATCH



D'ARCE McMILLAN

Canola edged slightly higher last week, even as analysts increased their forecasts for South America's soybean production and crude oil prices fell.

Support came from solid soy oil prices and the low Canadian dollar, which fell to an 11 1/2 year low.

The loonie is under pressure as crude oil prices fall on burgeoning stocks.

The Canadian Imperial Bank of Commerce thinks the dollar could fall to US70 cents in the first quarter of 2016 before making a modest recovery.

Other bank economists think it will stay in the low 70s in the first half of next year.

The CIBC cited weak prices for the oil and other commodities that Canada produces and the expectation that the U.S. Federal Reserve would begin to raise its key interest rate this week. This column was written before the Fed met Dec. 15-16.

Meanwhile, Bank of Canada governor Stephen Poloz recently speculated about the potential for his institution to shift to "negative" interest rates to spur the economy if weak oil drags down economic activity in this country even more, creating a 2008-like recession.

The big commercial banks use the Bank of Canada as a handy

venue to transfer money between each other. Their deposits in the bank now generate .5 percent interest, but if the bank went to a negative rate, then they would be charged to deposit the money.

That would present a new choice to the commercial banks:

- Keep the money in the Bank of Canada and lose money.
- Lower commercial borrowing rates and lend more money to consumers, who will spend it.

The central bank expects the commercial banks would choose to lend more money at cheaper rates and stimulate the economy.

It is good that Poloz has recession fighting tools in his box, but we hope it does not come to that.

Nevertheless, all signs now point to the loonie remaining weak for months, barely climbing to the mid 70s by the end of 2016.

That is a damper on U.S. travel and can make imported goods more expensive, but a weak loonie encourages Canadian grain and oilseed exports because it makes it easier for exporters to under-sell the United States.

With the support of a weak loonie, canola exports are running 10 percent ahead of last year.

Wheat exports, which were expected to be down about 15 percent, are so far down only .2 percent, while U.S. wheat exports are 18 percent behind as the industry in that country struggles with the strong American buck.

The weak loonie also encourages domestic canola crushers to process more. The crush is up 11 percent over the same time last year.

Follow D'Arce McMillan on Twitter @darcemcmillan.

ENVIRONMENT

## Adaptation will blunt climate change's impact

Cargill's executive director says farmers can make adjustments

BY SEAN PRATT  
SASKATOON NEWSROOM

CHICAGO, Ill. — Farming is a risky business that is going to get riskier, says a senior grain industry executive.

"Mark Twain famously said farming is gambling with dirt, and I think we can all agree in this room that climate change further loads our dice," Cargill executive director Greg Page told DTN's Ag Summit 2015.

Page is one of 10 board members for the Risky Business Project, which has released a report estimating the economic impact of climate change, including how it will affect agriculture.

"The report says that corn, soybeans, cotton and wheat yields will decline by about 14 percent between now and 2050 and could decline, based on climate alone, by 42 percent by the end of the century without any adaptation," he said.

Media covering the report picked up on the 14 and 42 percent doom and gloom numbers and ignored the "without any adaptation" caveat.

"I don't think anybody here in this room is planning to farm without adaptation in the next five years, let alone the next 35 or the next 85," said Page.

Farmers and technology providers have already demonstrated an ability to adapt. Page grew up on a farm in North Dakota that grew wheat, oats, barley and durum because those were the only crops that could be grown during the 80



Climate change is expected to bring more excessive rainfall events. | FILE PHOTO

to 90 frost-free days of the growing season.

The state now averages nine more frost-free days a year and farmers have more than 20 crops from which to choose.

Cargill recently opened a new crush plant in Camrose, at 54 degrees latitude, and most of the canola is bought from north of that plant.

"If my father were still living and I told him that the company I worked for was building a food processing plant 54 degrees north latitude, he would have thought there was some serious problem," said Page.

Jim Block, chief meteorologist with Schneider Electric, DTN's parent company, said there is one climate change weather factor that farmers can count on over the next five years.

"What we're looking at here is increased volatility," he said.

There will be more record precipitation episodes, flash droughts, record high temperatures and record lows.

It's because the warming of the Arctic has created persistent weather patterns. When it gets wet it tends to stay wet, like it has been in eastern Manitoba and western Saskatchewan, and when it is dry it stays dry, like it has been in California.

"Probably the most realistic expectation you can have in agriculture is that you're going to see more excessive rainfall events," said Block.

He defined excessive as 25 to 38 millimeters of precipitation.

However, there will also be flash droughts.

"You're going to see periods in which suddenly the rains just stop and we might go three, four or five weeks without any significant rains," said Block.

Page said governments can take steps to mitigate some of the risks associated with climate change and ensure there will be enough food to feed the world by 2050. They need to stop masking the signalling power of price with subsidies, tariffs and taxes, he added.

"Prices are the most potent of all fertilizers in motivating farmers to do the right thing," he said.

Governments need to honour comparative advantage and allow

natural exporting regions such as North America and South America to continue trading with natural importing regions such as Asia, sub-Saharan Africa and the Middle East.

There is a growing push toward food self-sufficiency, but the world's farmers will produce the most food in the most responsible and economical way if crops are grown in the right places.

Food self-sufficiency policies are causing extreme price volatility in modern agriculture. A small increase in production can cause prices to plummet and farmers to grow less food.

Page said China is the best example of a country taking the correct approach. It has a comparative advantage growing starch crops such as wheat and rice but is not well endowed to grow protein crops.

As a result, it decided more than a decade ago to grow cereals and import soybeans.

He said 16 percent of global calories move across international borders. The rest is grown and consumed locally.

"Only 16 percent, yet you often read in the media people decrying the fact that we have a globalized food system," said Page.

Governments need to continue promoting the sustainable intensification of farming. Farmers have doubled world production since 1975 with little increase in acreage.

"The technology exists to grow more food with the water that we have, using less fertilizers, less herbicides and pesticides and certainly less tillage," he said.

As well, more flexible renewable fuel policies are needed so that crops are not diverted into non-food uses by rigid dictates during periods of poor harvests.

Page said one big challenge will be convincing governments to adopt the correct policies because climate change is a problem that politics is perfectly designed to ignore.

It's because the costs of climate change mitigation are immediate while the benefits are far into the future.

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**CANFAX REPORT**

**FED CATTLE FALL**

Many feedlots deliberately pushed cattle from November into December hoping for a price recovery, but that has not been the case.

Annual price highs occurred in December in the last three years, but the market this year is falling sharply.

Canfax said there was not enough volume to establish an average cash price in Western Canada.

In the United States, cash cattle sold at US\$118-\$121 per hundred-weight, down as much as \$6 from the previous week and the lowest of the year. Long-term technical support is at \$115-\$118.

Chicago December live cattle posted new contract lows during the week. The futures price hit the lowest point since June 2013 on a continuous basis. Record carcass weights, sluggish exports, falling stock markets and uncertainty surrounding country-of-origin labelling all weighed on the futures market.

The two major Alberta packers were more even in their buying last week, rounding up the supply they needed to carry them to the end of the year.

Alberta cash-to-futures basis levels strengthened, encouraging sales with delivery scheduled for the end of December.

The focus was on heavy cattle as feedlots tried to keep weights under control.

U.S. bids were comparable with Alberta sales, but American packers were looking for January delivery.

It appears some contract and cash cattle scheduled for November delivery had not yet been delivered.

**COWS STEADY**

Slaughter cow prices stabilized despite large auction volumes.

D1, D2 prices averaged \$100.83

per cwt., down 42 cents, while D3 prices rose 18 cents to average \$89.60.

Dressed bids were steady at \$198-\$203 delivered.

Butcher bull prices fell almost \$1 to average \$119.60.

Weekly western Canadian slaughter to Dec. 5 fell nine percent to 8,056 head.

Slaughter is down 12 percent this year.

Weekly exports to Nov. 28 rose to 6,864 head.

Exports this year are down 16 percent.

Marketings should dwindle toward year end, and good demand should hold prices steady.

**FEEDERS FALL**

Auction volumes were down seasonally, but prices were sharply lower.

Sluggish fed cattle turnover and a lack of pen space are limiting feeder demand.

Steer calves 300-500 pounds tumbled \$20-\$25 per cwt., while heifers were \$15-\$17 lower.

Steers 500-600 lb. fell for a sixth consecutive week. Same weight heifers fell for the 15th straight week.

Middle weight feeders fell \$13-\$15 while yearlings heavier than 900 lb. dropped about \$11.

Calf prices were down \$35-\$40 compared to the same week last year.

Feeding margins on new placements are around break-even, based on current weekly feeder prices and lacklustre cattle futures.

Alberta auction volumes totaled 40,962 head, down 14 percent on the week but up 12 percent from last year.

Volume is down five percent for the year.

Weekly feeder exports to Nov. 28 were only 769 head.

Exports are down 32 percent this year.

The beginning of December usually marks the last big push to get feeders to market before the end of the year. Volumes will likely fall off now.

**BEEF LOWER**

U.S. beef cutouts fell with Choice at US\$203.08, down \$1.40, and Select was \$188.47, down \$4.55.

Weekly Canadian cutouts to Dec. 10 slipped from the previous week with AAA at C\$263.58 and AA at \$251.63. AAA and AA were trading more than \$25 per cwt. lower compared to last year.

*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.*

GRAIN PROCESSING

**Parrish & Heimbecker to build flour mill**

The expansion will increase processing by 25 percent

SASKATOON NEWSROOM

P&H Milling Group, the largest Canadian-owned milling company, is building a \$45 million flour mill in Hamilton, Ont.

The mill will be built adjacent to the terminal elevator that its parent company, Parrish & Heimbecker Ltd., opened in 2011 at the Port of Hamilton.

P&H Milling will spend \$40 million on the project, and the government of Ontario is kicking in \$5 million.

The new bulk mill will house efficient state-of-the-art equipment, including additional grain and flour storage, said a news release

from the Ontario agriculture ministry.

The expansion will enable the company to process 25 percent more grain and help increase the company's movement of Ontario wheat by more than 10 percent annually, the release said.

P&H has been in the milling business since 1964.

It will be the first entirely new mill in Ontario in 75 years, although P&H Milling's Dover Flour added a new milling unit at its Acton, Ont., mill in 2009, doubling capacity.

P&H Milling has mills in Lethbridge, Saskatoon, Montreal, Halifax and three mills in Ontario in Acton, Hanover, and Cambridge.

**WP LIVESTOCK REPORT**

**HOGS STEADY**

U.S. packers maintained bids to coax deliveries to match their strong slaughter plans.

Good operating profits encouraged packers to maintain an elevated slaughter pace.

Iowa-southern Minnesota hogs delivered were US\$40-\$40.50 per hundredweight Dec. 11, steady with \$40.50 Dec. 4.

U.S. hogs averaged \$50.96 on a carcass basis Dec. 11, steady with \$50.92 Dec. 4.

The U.S. pork cutout was \$74.41 per cwt. Dec. 11, up from \$73.73 Dec. 4

The estimated U.S. weekly slaughter for the week to Dec. 12 was 2.426 million, up from 2.424 million the previous week.

Slaughter was 2.262 million last year at the same time.

**BISON STRONG**

The Canadian Bison Association said Grade A bulls in the desirable weight range sold at prices up to C\$5.50 per pound hot hanging weight. U.S. buyers are offering US\$4.25 with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$5.35. U.S. buyers offered US\$4.10.

Animals outside the desirable

buyer specifications may be discounted.

**SHEEP TRADE HIGHER**

Beaver Hill Auction in Tofield, Alta., reported 753 sheep and 62 goats sold Dec 7.

Wool lambs lighter than 54 lb. were \$235-\$250 per cwt., 55-69 lb. were \$235-\$260, 70-85 lb. were \$202-\$237, 86-105 lb. were \$170-\$208 and 106 lb. and heavier were \$151-\$175.

Wool rams were \$73-\$150 per cwt. Cull ewes were \$66-\$166.

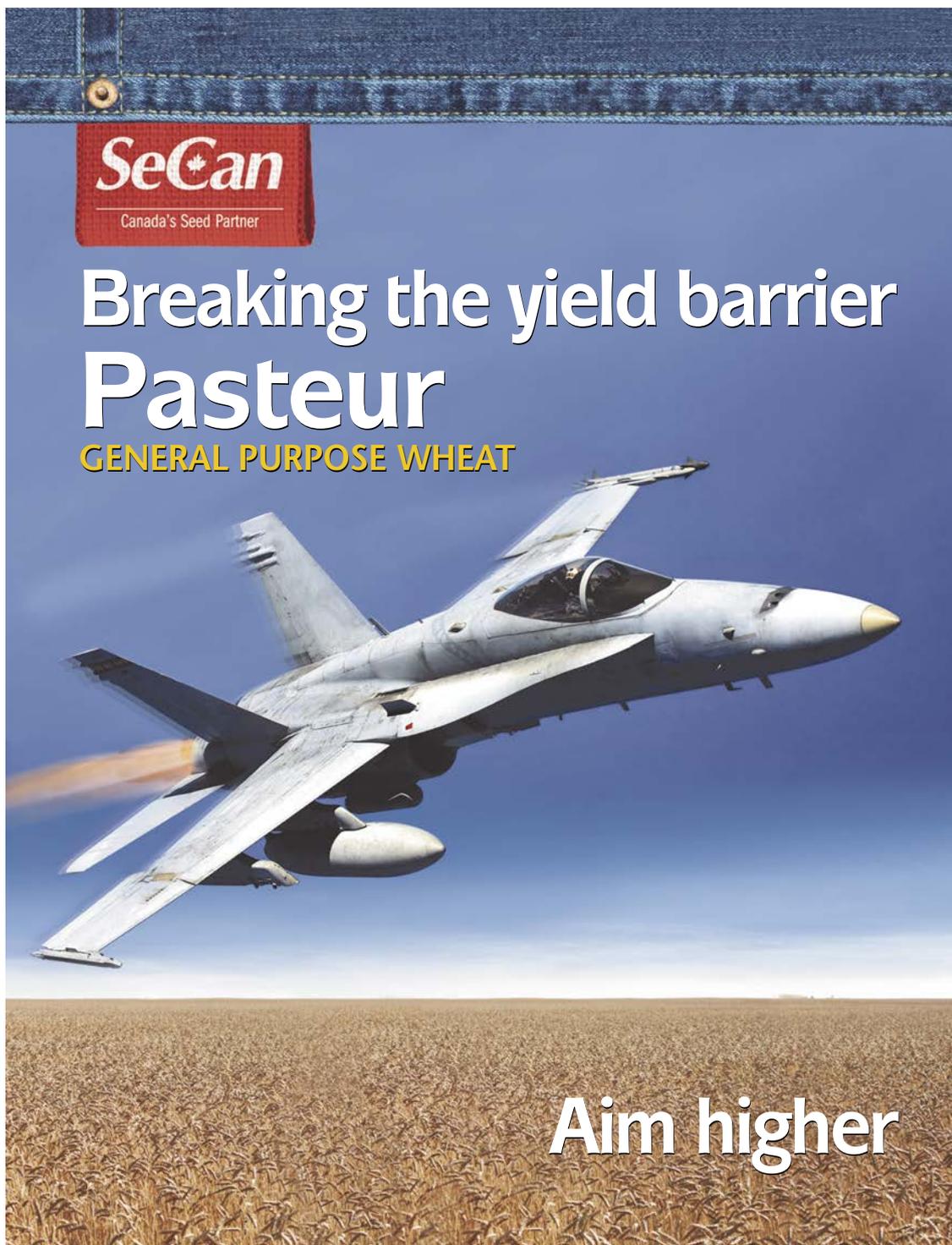
Hair lambs lighter than 54 lb. were \$235-\$250 per cwt., 55-69 lb. were \$235-\$251, 70-85 lb. were \$201-\$220, 86-105 lb. were \$163-\$189 and 106 lb. and heavier were \$152-\$162.

Hair rams were \$76-\$110 per cwt. Cull ewes were \$97-\$125.

Feeder kids lighter than 60 lb. were \$185-\$220. Good kid goats lighter than 70 lb. were \$210-\$260. Those heavier than 70 lb. were \$220-\$260 per cwt. Nannies were \$90-\$172.50 per cwt. Billies were \$137.50-\$175.

Ontario Stockyards Inc. reported that 1,812 sheep and lambs and 70 goats traded Dec 7.

All well-finished new crop lambs and well-finished goats sold at a premium. All other lambs were steady. Sheep traded \$5/cwt. higher.



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## CLIMATE CHANGE

# Canadian farmers deserve credit for carbon action

Canadian agriculture is one of the most efficient and carbon friendly agricultural systems in the world.

However, that doesn't mean farmers can afford to sit on the sidelines while debates continue about agriculture's role in reducing greenhouse gases. To do that could result in impossible regulations and unworkable restrictions.

The recent world climate change summit in Paris, and the federal Liberal government's emphasis on greenhouse gas emission targets, should have farmers, ranchers, feedlots, grain companies and anybody else who makes their living in agriculture on high alert.

There must be a concerted effort to present the compelling stories of how the Canadian industry is ahead of the curve on climate change mitigation.

Farmers make their living off the land and do so with a proud commitment of ensuring the land, the earth and the overall environment are there for future generations. These are people who know well the rhythms of the earth.

The story must be told of farmers' eager adoption of zero and minimal till practices, which holds carbon in the soil while also protecting soil organic tilth and preserving water.

Canada has long had programs in place to encourage farmers to invest in the latest zero-till technology and GPS systems to provide more efficient use of seed, fertilizers, water and other inputs.

There is the story to tell of Canada's livestock producers who efficiently use marginal land that otherwise might be plowed up for crops.

And there is information that may not be so well circulated at climate change meetings.

For example, the most carbon efficient beef animals are those given growth hormones to speed weight gain and those

fed grain in feedlots.

Researchers in an Australian study found that grain-finished beef produced 38 percent less methane than grass-fed animals.

Other studies have found the difference to range by as much as 70 percent less. Those efficiencies are realized mostly because animals are slaughtered at a younger age, which reduces the overall methane produced on a per kilogram of meat basis.

The United Nations' Food and Agricultural Organization has stated that livestock production is responsible for 14.5 percent of human caused greenhouse gas emissions.

Statements like that have buried other studies, such as one by the University of California at Davis, which said the number is more like three percent.

These counter arguments show why agriculture must be at the table.

Canadian farmers have proven over the years that they are inventors and adaptors, two skills that helped them survive the harsh times of the 1980s and 1990s and will prove valuable in addressing the climate issues ahead.

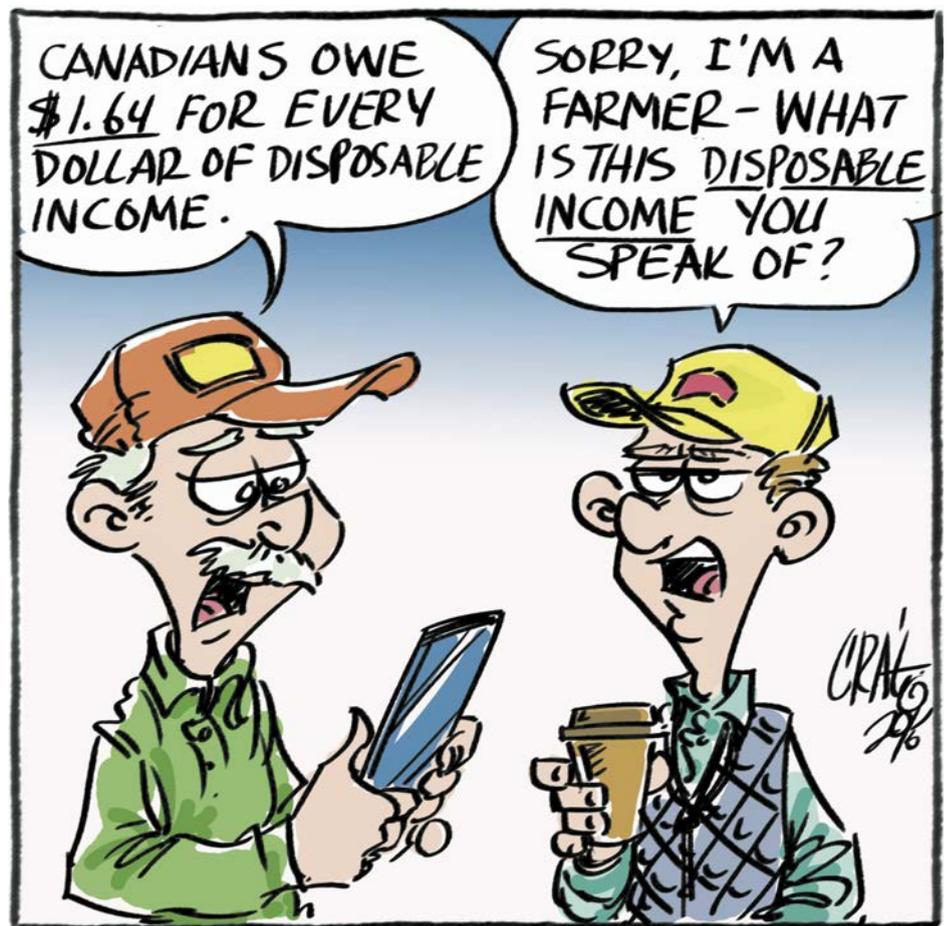
Agriculture has been identified as an industry likely to be among the most affected by climate change. It is also one of the most threatened because the map of key growing regions could be completely redrawn as world hot spots shift.

Yet when policies for change are drawn up, Canadian producers deserve credit for their leading edge ways.

And future changes must encourage innovation and research with incentives and beneficial programs rather than punishing penalties.

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

## CRAIG'S VIEW



## ALBERTA FARM BILL

*The protestors (of Bill 6) lost sight of the end game. The goal was to make a better bill that we can make for the farmers. Unfortunately, for some people the goal was to end the NDP government. It's too bad.*

**KENT ERICKSON**  
ALBERTA WHEAT COMMISSION  
PAGE 3



## FARM POLICY

# Opposition attacks over ag omission in throne speech

## CAPITAL LETTERS



## KELSEY JOHNSON

Canada's agriculture industry didn't earn a single mention in the Liberal government's Dec. 4 throne speech, but its omission has dominated parliamentary debate ever since.

NDP leader Tom Mulcair and interim Conservative leader Rona Ambrose both commented on the lack of agriculture in the Liberal plan, particularly in light of the pending Trans-Pacific Partnership agreement.

"There is a huge void when it comes to talking about the role of

the private sector," Ambrose said. "There is no mention of the agriculture sector, the auto sector, the forestry sector, the energy sector. None of them are present in the speech from the throne."

Conservative agriculture critic Chris Warkentin went as far as calling the speech "a betrayal for Canadian farm families."

"Canadians were promised a government that would stand up for their interests, and instead our Canadian farmers and farm families have been left out in the cold," Warkentin said.

Those sentiments were echoed repeatedly in the House of Commons during debate on the speech as parliamentarians stood to make their inaugural speeches in the House of Commons.

Conservative MP Alain Rayes expressed disbelief at agriculture's omission from the speech, given the sector is facing pressing issues such as milk proteins coming across the border and undermin-

ing Canada's dairy industry.

"On this, as on matters facing rural municipalities, the throne speech was silent. It made no mention of agriculture, even though the problem is urgent and agriculture is both a key economic sector and vital to our national food security," Rayes said.

Alberta Conservative MP Arnold Viarsen used his member statement before question period to reiterate his commitment to Canada's agriculture sector, noting his riding "is built on the foundation of farming."

"Over the course of the last 150 years, farmers have worked hard in my riding to feed Canadians every day," he said, before noting the sector didn't earn a mention in the Liberal's throne speech.

The Conservatives said prime minister Justin Trudeau's promise to stand up for all Canadians was not reflected in the throne speech.

To be clear, Conservative defence

of Canada's agriculture sector should come as no surprise — after all, the majority of rural seats went blue Oct. 19. Rural Canada elected them and Conservative MPs are expected to defend them.

Still, considering that agriculture has rarely dominated federal throne speeches, or parliamentary debate for that matter unless a crisis is brewing, the amount of attention its omission has generated in the House has been striking.

And it's a trend that's likely to continue, thanks to a number of high stakes agriculture issues that are simmering.

One of those issues is, of course, American country-of-origin labelling, a matter on which Trudeau has promised to "stand up for our farmers."

With Canadian retaliation pending, all eyes are on the Liberals to see the matter through. Trudeau has committed to retaliation if the rule is not repealed.

"We are putting political pressure,"

Trudeau told reporters Dec. 9.

"We would rather not have to engage in retaliatory measures, but we certainly will stand up for our farmers... We're going to work with Americans, or against them, to make sure that it happens."

It's a promise Canada's agriculture industry and political opposition will expect him to keep.

Industry on both sides of the border has been pushing the American Senate to repeal COOL before Canada can retaliate.

As of press time, the Americans had yet to repeal the rule, but efforts were underway by industry to urge U.S. legislators to insert a clause repealing COOL in the pending U.S. budget bill, which must pass by Dec. 16. Whether that clause would be inserted in the bill remained unclear.

Kelsey Johnson is a reporter with iPolitics, [www.ipolitics.ca](http://www.ipolitics.ca).

# & OPEN FORUM

ALALYSIS

## Climate change rattles agriculture status quo

BY DANIEL GROSSMAN

Daniel Grossman sat down with two climate change experts during the COP 21 climate change summit in Paris.

Chris Field, a professor of biology and environmental earth science at Stanford University, co-chaired the committee that wrote *Managing the Risks of Extreme Events and Disasters to Advance Climate Change Adaptation for the United Nations Intergovernmental Panel on Climate Change*.

Katherine Mach, a senior research associate in Stanford's department of global ecology, co-directed the scientific activities of the committee.

**Q: Is it possible that agriculture might no longer be productive in large parts of the world in the future?**

**CF:** Climate change is really a challenge in understanding, managing and reducing risks. There may be only a one percent probability that, for example, heat waves or drought would become so prominent across parts of sub-Saharan Africa that you could no longer practically do agriculture. But that one percent is important in how you think about the future. We don't have a very mature science for evaluating these low-probability, high-consequence outcomes, but they should be part of the discussion.

**KM:** And it's not just how much food you get from a given area of land but how that food matches with cultural preferences. If you

were to map everywhere on the planet that you could grow crops, you could imagine a world where you rapidly adapt by shifting what's grown where, but that's actually a very substantial challenge in terms of understanding the feasibility of those types of movements.

**Q: How much will yields change with climate change?**

**CF:** Think about what factors control whether or not agriculture is practical in a given area. One is whether you frequently get conditions that are so hot or so dry that the crops can't survive.

We know that many crops have a very sharp temperature threshold above which yield goes down very rapidly, and that temperature threshold is around 80 F (26 C) for corn. Just a few days at temperatures of 100 F (37 C) will cut corn productivity substantially. ... High temperature is simply a very stressful condition for most food crops.

Crops also require substantial amounts of water, so a serious drought can heavily impact production, especially with commodity crops like corn, wheat and soy.

We have a reasonably clear picture of what we expect heat waves and high temperature conditions to look like in the future. We looked at 1,070 computer runs for crop yields.

And by the end of the century, 20 percent of them project decreases of 50 percent or more. And the simulations don't generally include interactive factors that present some of the biggest challenges, like water availability and the expo-

sure to strong storms.

One of the things that we expect in a changing climate is more variable conditions: extended drought, storms. All those things make it more and more difficult to get yields on a consistent basis. ...

**Q: So there's a big risk of a substantial decline?**

**CF:** It might be that conditions improve as a consequence of technological advances or it might be that they are more challenging as a result of more demands on water resources or, say, higher prices for fertilizer.

One of the things we want to do is shift thinking to risk management so that we recognize that there's a real possibility of outcomes that are unacceptable, especially for poor people who don't have access to advanced technology, fancy cultivars and good predictive ability.

**KM:** It's very clear that in some places it's going to be harder to grow what we're growing now.

**Q: What kinds of scenarios are you thinking about?**

**CF:** For example, repeated extremes of very high temperature, heavy precipitation or drought. And the world's grassland areas have historically had the most variable climates.

California, where I'm from, is a good example. It's in the midst of a historic drought, a drought that is more severe than we're pretty sure we've had for at least 500 years.

That's a clear fingerprint of the influence we expect from a chang-

ing climate, whether climate change caused it or not.

California is a perfect example of an area where the big constraint on agriculture is the availability of water resources. We know that California's water storage system, which is really a marvel of engineering, gets about 30 percent of its water from storage in the snow pack.

In the winter of 2014-15, we had essentially zero snow pack and really lost all of that water from the water system.

More than 95 percent of California's cropland acreage is irrigated, and without irrigation water we don't grow anything.

**Q: Is it possible that by the end of the century some areas will no longer be able to feed their inhabitants?**

**CF:** Yes. We can't yet quantify it, but there certainly is some risk. I think it's important to recognize, though, that it's not going to be because year-on-year crop yields dwindle to nothing.

Rather, you might get a good yield one year, followed by three years where the crops fail, then an OK year followed by two more years of failure. It's much like what happened in the dust bowl era in the U.S.

*Daniel Grossman is a Boston reporter who specializes in climate issues. This article was reprinted with permission of FERN's Ag Insider, at thefern.org/ag\_insider and with support from the Pulitzer Center on Crisis Reporting.*

INFORMATION IS POWER

## Social licence is not licence to operate

EDITORIAL NOTEBOOK

MICHAEL RAINE  
MANAGING EDITOR

Social licence is a buzz phrase that has caught on with the public, largely because it is unregulated and issued by the court of public opinion.

Anyone can claim to offer one, from tiny interest groups to big governments, whenever it best suits their needs.

They often do so when no real licence is available to them, at least not one that they want.

There are plenty of real licences in agriculture, plus economic barriers to entry, also known as reality checks. Most real licenses involve scientific and legal analysis, along with political review and democratic approvals. The economic ones tend to keep out destabilizing, fly-by-night operators.

However, if those tools aren't working for your cause, whether it be opposition to genetic modification, animal agriculture, oil production, pipeline construction or the mandatory vaccination of children, then pull out your court of public opinion social licence requirement.

This licence will likely have been validated by the internet, media talk shows and irresponsible journalists and publishers. It won't have been approved through the normal channels.

When industries such as agriculture are reminded that it needs a social licence to operate, we are really saying the court of public opinion has to be with you. That unsanctioned court often assembles juries of the under-informed to sit in judgment of technology and economics for crimes of complexity and ineffective communication.

I have spoken to a couple of farm groups recently about communication in our not-so-modern world, which believes that enlightenment is attained by spending all its free time in the library of the internet. I reminded these groups of the Canadian agricultural social licence and the need to claim their rights to it. The bad news is that the fee for a social licence tends to be rather high if you are still using your grandfather's version.

We all have to pony up for this one if we want to keep operating more-or-less the way we always have, based on economics, science and safety and in the true public interest.

To do this requires a reliable, well-fed free press, informed politicians and strong professional associations that avoid the shrill extremisms and claims of catastrophe when describing the future.

michael.raine@producer.com

PUSH FOR GOVERNMENT ACTION

## Don't let proposed CTA reforms head to back burner

HURSH ON AG



KEVIN HURSH

The grain transportation system is performing rather well right now, but the push for reforms must continue. Otherwise, a repeat of the disaster from two years ago is inevitable.

Dec. 24 is the deadline for David Emerson to submit his report reviewing the Canada Transportation Act. The grain industry rep on Emerson's review panel is Murad Al-Katib of AGT Foods. Emerson, Al-Katib and the other panel members have logged a tremendous number of hours meeting with all the stakeholders and poring over reams of submissions.

The Emerson report will go to transport minister Marc Garneau, who will have 30 House of Commons sitting days to review the report before tabling it. The report

should be public in February or March.

Grain sector participants were organized and cohesive in their recommendations to the panel. Other shippers echoed many of the same themes. Solid recommendations have been made to provide shippers with more leverage in dealing with the big railways.

The rail transportation malaise of 2013-14 was a huge impetus for change. Unfortunately, the momentum is in danger of being lost.

Even though a great deal of time and effort have been expended, and even though the Emerson report is expected to include many of the proposals suggested by shippers, transportation issues have faded from the spotlight.

The latest figures released by the Ag Transport Coalition show Canadian National Railway and Canadian Pacific Railway supplied 85 percent of the hopper cars ordered for delivery in the last reporting week.

The only problem area seems to be movement to the United States and Mexico and to Canadian domestic locations, where CP supplied only 26 percent of the cars

ordered for the week.

Grain transportation is benefiting from the slowdown in the other resource sectors, notably oil and potash. Some also theorize that the big railways are on their best behaviour while the CTA review is underway.

For their part, the railways accept little if any of the blame for the chaos of two years ago, saying it was caused by an unusually harsh winter and a non-forecasted 50 percent increase in grain export volumes. If you believe the railways, they compete vigorously for business and always provide an efficient low-cost service to customers.

For most of the grain sector, competition between the two main railways is a myth. You can bet both railways are already lobbying the federal government in an effort to avoid any meaningful changes that might erode their market power.

Former agriculture minister Gerry Ritz was active on the transportation issue. Lawrence MacAuley, the new minister, is still trying to get his head around all the files in the agriculture portfolio, let alone transportation, which isn't his core responsibility.

Garneau is still an unknown entity as transport minister, and there are many other aspects to transportation beyond freight movement in Western Canada.

Collapsing oil prices, a new international climate accord, Syrian refugees and a deteriorating fiscal climate means rail transportation reform isn't going to attract mainstream headlines.

However, farm organizations need to stay involved as the CTA review process proceeds. Unresponsive rail service will come back to bite us if we don't maintain pressure. The opportunity for meaningful change in rail transportation is rare. We need to watch for the release of the Emerson report and be prepared to impress the need for action upon the new government.

.....

Correction : In last week's column, the SaskCanola levy on a per acre basis was incorrectly calculated. Rather than being an average of \$1.35 per acre, it is only around 58 cents per acre.

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

## OPEN FORUM

**LETTERS POLICY:**

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

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

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

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

**JUDGING ANIMAL WELFARE**

To the Editor:

Re: Supply management and animal welfare (WP, Nov. 5).

One could state that this is a poor reflection of factors that influence dairy cow welfare, and even further that it is a shameful attempt at defending supply management.

Here is my reasoning:

1) Comparison of culling rates and longevity, with no qualification of reasons or health/welfare/productivity with longer lives, is a very poor proxy for animal welfare.

There are many reasons for lon-

gevity and culling rates to be different in different countries, particularly economics of cull cows and replacement heifer markets, as well as availability of genetic developments in replacement population.

2) There are lots of good, hard-working employees on dairy farms that do a very good job for animal care and are proud of the work they do.

The statements in this article are insulting, at best, to the people we employ to care for our cows.

Let's assume (fairly safely) that larger farms are likely to have hired labour working with the dairy cows. Recent work at University of

British Columbia has shown that key metrics of dairy cow welfare do not differ with farm size, and that larger farms may have some advantages in the practices they use, which is contrary to the suggestion of the ability of hired labour in the article.

3) The supply management system does offer one model for funding research and a mechanism for application across the industry. However, recognition must be given to other models, particularly the FARM program south of the border, particularly if it is importing milk from south of the border that we are going to be insinuating.

Currently 93 percent of the U.S. milk supply is evaluated by the FARM program, which is verified by third parties for accuracy and aimed at continuous improvement in dairy cattle welfare. It was also developed using a science-based approach, similar to the National Farm Animal Care Council codes and often using the same science, as well as some of the same people on the advisory group.

Although there are strengths and weakness to both proAction and FARM, we should not be so hasty in assuming that supply management is the best or only model for good farm animal welfare across an industry.

There are many pros and cons to supply management, as well as other milk marketing systems. The points I make are not comprehensive evidence of the effect on animal welfare.

I think it is great that animal welfare continues to be inherent to the dairy industry and a topic we write about in our industry publications.

However, in reflecting on animal welfare implications of importing milk or changing industry structure, a more balanced evaluation would likely benefit our understanding and ability to support good dairy cattle welfare.

Christy Goldhawk  
Airdrie, Alta.

**THOUGHTS ON MRLS**

To the Editor:

These are some thoughts regarding a recent article regarding maximum residue limits and grain handling (Clever solution to canola problem, WP, Nov. 12).

Canada is a major player in exports of cereals and oilseeds. Canada is even viewed as a supplier of healthy and unadulterated commodities.

Canadian regulators are very conservative when it comes to the establishment of MRLs for these crops, so other countries look toward those decisions made by Health Canada and often rely on their expertise. Human health is always of top priority in development of MRLs and is based on sound science principles.

MRLs, by design, often incorporate huge margins of safety so the overall risk to human health is negligible.

The article stated that registrations of pesticides for use on canola and other crops may jeopardize the canola industry, so grain companies are implementing their right to restrict acceptance of crops treated with pesticides that have no global MRLs established.

CONTINUED ON NEXT PAGE >>

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## SOCIAL MEDIA

# Great farm stories still a good read online years later

## PRODUCER ONLINE



PAUL YANKO

An interesting thing happened last week. A story from more than two years ago was suddenly back among the

most popular stories on our site.

This is no small feat, considering stories on Bill 6 and glyphosate have been dominant and driving record traffic to our site in recent weeks.

The story in question, and its accompanying video, features St. Gregor, Sask., farmer-inventor Wilfred Mollenbeck and his unique home. Written by Sean Pratt and with a video by Robin Booker, the story originally appeared in the Nov. 7, 2013, printed edition.

It was wildly popular when we first ran it, and the video still sits

atop our ever-growing collection as the most-viewed to date.

If you haven't seen the story yet, you can check it out at [bit.ly/1Upwqik](http://bit.ly/1Upwqik).

But why was it so popular, again, last week? The short answer is, we don't really know.

Somewhere, its link was shared, maybe posted on a Facebook page, maybe included in an e-newsletter — it could have been tweeted by Justin Bieber.

No, the reason that story suddenly resurfaced, as others also do from time to time, will likely remain

a mystery. But the fact it did does remind us of a couple things of which we're well aware, and you should be too:

The first is that [www.producer.com](http://www.producer.com) is home to a wealth of information, closing in on 70,000 stories published in our online database dating back to Jan. 6, 1994.

The other is that a good deal of our content holds up over time.

This particular story was one we call an "On The Farm," in which our reporters visit farming operations across the Prairies, and sometimes beyond.

They're entertaining and informative portraits of families engaged in an industry for which we all share a passion.

And they're just as readable today as they will be in six months or three years' time.

So if you're ever looking for an interesting read, check out our archive for some interesting tales, and share it with a friend on social media.

Especially if your name rhymes with Bieber.

[paul.yanko@producer.com](mailto:paul.yanko@producer.com)

## » CONTINUED FROM PREVIOUS PAGE

Case in point: Canada and the United States have established MRL for quinclorac on canola at a level of 1.5 ppm. China and Japan have not yet established a residue limit and hence the grain companies do not wish to accept crops treated with quinclorac.

However, Japan has proposed and advanced a 2 ppm MRL on canola. China, while actively updating its own MRL database for internal production, will often resort to the default MRL from the country of origin. So instead of elevating this issue in the media, where assumptions deteriorate reality, companies should rely on sound science to make a more logical and educated decision of the potential risk from grain shipments to international markets.

PRTox analyzed a sample of producers canola yields for residues where quinclorac had been applied. Using LC/MS/MS it was found that residue levels averaged 4.7 ppb, which is approximately 300 times below the Canadian MRL. These values were offset by a single sample of 20.7 ppb where product was applied twice due to an early rain following the first application. Our results are consistent with similar observations noted in a larger data set.

So sound science show that quinclorac residue levels are well below the Canadian and US MRLs.

It is also our understanding that only a small fraction of canola acreage was treated with quinclorac to control cleavers. So when these producer yields are mixed with the other 95 percent of the acreage yields beyond the farmgate it is extremely unlikely that any analytical method would detect residues. Especially since the multi-residue analysis panel method, so often used by enforcement agencies, is less sensitive than our method and would be unable to detect levels above 0.01 p.p.m., rendering the exercise futile.

So international trade is not jeopardized by use of quinclorac that may be used to improve productivity.

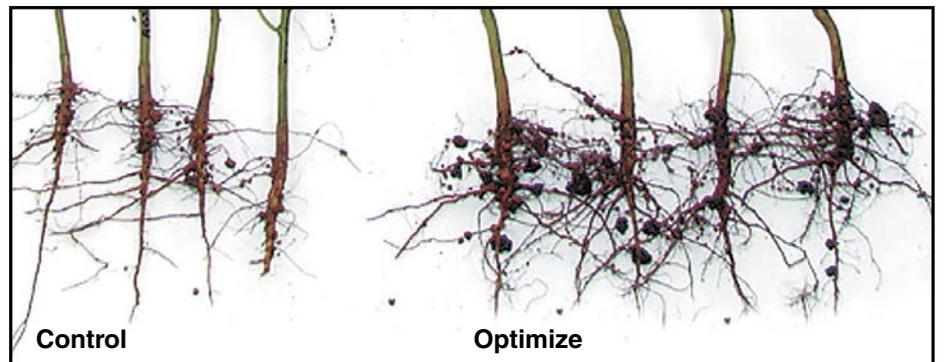
Media has a place but even they should utilize sound science when providing (information). Grain handlers should participate in the analysis of samples from elevator batches to determine their true residue level and their potential for risk.

Daniel Bechtel  
Saskatoon, Sask.

Advertorial

## Why Inoculate or Dual Inoculate?

- Effective nodulation is essential for nitrogen fixation, particularly in soils where soybeans have not been planted recently
- Dual (or double) inoculation can help quickly establish high populations of rhizobia bacteria to ensure optimal nodulation and soybean performance



Enhanced root growth.

### Dual Inoculation

Land that has been through less than ideal growing conditions, or has not had soybeans for a few years, requires special attention when it comes to inoculation. Dual inoculation can help quickly establish high populations of rhizobia bacteria to help ensure the best possible nodulation and soybean performance. Land with a history of longer soybean rotations, or land with a history of flooding or longer periods of drought, is not conducive to rhizobia survival. It is in these soils that farmers will benefit greatly from the application of two formulations of inoculant.



Root nodules and a dissected, pink nodule

Seed-applied inoculants tend to form nodules closer to where the seed is located (closer to the primary root); in-furrow-applied granular inoculants tend to form nodules on the secondary or lateral roots. Combining the two formulations allows for wider distribution of nodules along the whole root system.

Dual inoculation combines seed-applied inoculants with a sequential in-furrow application of a granular or liquid inoculant to quickly establish high populations of rhizobia bacteria to ensure optimal nodulation and soybean performance.

#### How to dual inoculate

As the base treatment in dual inoculation, Optimize<sup>®</sup> ST, a new more concentrated formulation of Optimize, provides the benefits of a specially selected *Bradyrhizobium japonicum* inoculant along with lipochitooligosaccharide (LCO) technology:

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For growers without a granular applicator, or a planter with a liquid kit, Cell-Tech<sup>™</sup> liquid applied in-furrow through a liquid applicator is a good option. Cell-Tech is a single-action inoculant that contains a specially selected *Bradyrhizobium japonicum* species.

If phosphate is limited, JumpStart<sup>®</sup> inoculant, containing *Penicillium bilaii*, can be seed-applied along with Optimize ST by your retail, and Cell-Tech liquid or granular applied sequentially in-furrow. JumpStart increases phosphate availability for better use of phosphate and higher yield potential.

Consult your local Monsanto BioAg representative or local retailer for further information on how to dual inoculate soybeans to ensure optimal nodulation and soybean performance.

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FARMING SMARTER CONFERENCE

# Farmers must manage MRLs to avoid confusion

Producers must take the initiative in pushing for international standards to avoid having shipments rejected

BY BARB GLEN  
LETHBRIDGE BUREAU

The world of maximum residue limits for certain crop treatments is getting more complex.

Countries are setting their own limits as Codex, the international body charged with setting MRLs, gets further behind.

Canola pathologist and wheat breeder Ron Pidskalny of Strategic Vision Consulting said this makes them ever more difficult to track.

"There are three issues," he said. "Number one is heightened monitoring and testing globally. Number two is the development of new

national MRLs ... and three, our Codex system, which is an international MRL system, is behind schedule, which is why a lot of countries are looking at Codex and saying, 'we're getting so far behind we think we're just going to develop our own national system.'"

Pidskalny told a Dec. 8 Farming Smarter conference in Lethbridge that producers need to take the initiative to ensure international customers accept their crops.

"Ultimately, as producers, you need to enter in some discussion with your producer groups and make sure that your interests are represented," he said.

**The onus in 2015 was on you to ensure that the MRLs were in place in all potential export destinations all over the world for your wheat and canola. In my opinion, that was an unfortunate situation.**

RON PIDSKALNY  
STRATEGIC VISION CONSULTING



"You really need to take the bull by the horns and take action."

Conflicting MRL rules most recently affected Canadian farmers who used quinlorac (Clever) to

control cleavers in canola and found the crop wasn't accepted in Japan and China.

Similarly, the United States doesn't have an MRL for Canadian

crops treated with chlormequat, a growth regulator.

In addition to the dog's breakfast of global MRLs, Pidskalny said crop shipment tests have become cheaper and more sensitive, which encourages buyers to use them.

He said the new technology can detect one part per billion, which is equivalent to one minute in two years, one cent in \$10,000 or one pinch of salt in a nine kilogram bag of potato chips.

As an example, Pidskalny said a 60,000 tonne ship full of grain could be tested for chemicals in parts per billion even before it is unloaded.

"If there is anything in that crop on that cargo, someone is going to pick it up at the destination."

He said countries that develop their own MRL standards tend to put health authorities in charge.

"They have no mandate for and no knowledge of trade, but they tend to be the decision-making authorities. So what's happening is that they're making decisions that are inadvertently setting up major barriers to trade."

It takes years to get through the Codex process, Pidskalny added.

"We've had countries like South Korea, Hong Kong, China ... they've dropped Codex and they've decided to develop their own international system," he said.

"United Arab Emirates, Mexico and India, we've heard, are moving in the same direction."

Tolerances are unknown when that happens, and in many cases there is no MRL at all.

"Codex filled in some of those national blanks and we had something to go on, but with countries going away from Codex ... we just end up with this big unknown on what the tolerance is going to be once we export to that destination."

Pidskalny said the horticultural industry and to some extent the pulse industry have worked with MRLs for years, but it is new to cereal grain exporters.

For example, Canadian wheat has 72 export destinations, meaning there could be that many different MRL situations.

"The onus in 2015 was on you to ensure that the MRLs were in place in all potential export destinations all over the world for your wheat and canola," he said.

"In my opinion, that was an unfortunate situation."

Rejected cargo can cost millions of dollars in transportation, destruction of the shipment and other direct expense, said Pidskalny.

However, there are also intangible costs such as segregation programs, testing tools, potential loss of export licenses, cancelled contracts and damage to the shipping country's reputation.

He said an industry and government task force is working on MRLs in Canada, so the situation is improving and producers are having input.

MRL guidance databases have been completed in Canada for beans, blueberries, chickpeas, cherries, fababeans, lentils, peas, potatoes, soybeans and wheat.

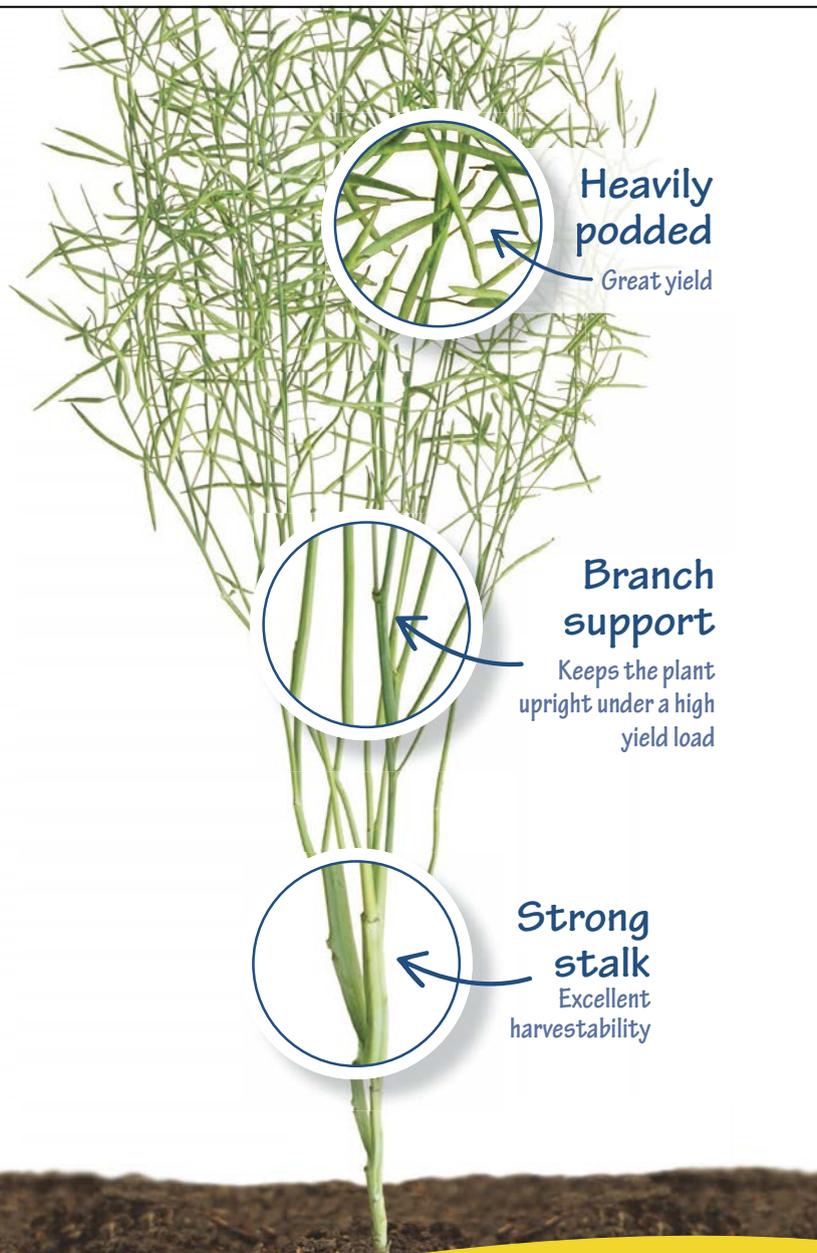
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DAIRY FARMERS OF MANITOBA

## Group pushes for non-GM milk label

Dairy producers want to tap into niche market

BY ROBERT ARNASON  
BRANDON BUREAU

Consumers have plenty of options in the dairy aisle, whether it is whole milk, one percent, buttermilk, organic, lactose-free, soy, almond or coconut.

However, a Manitoba dairy farmer says Canadians need one more alternative: non-genetically modified milk.

"We're just seeing a demand coming, and there are (Manitoba) processors that have been echoing the same comments," said Hans Gorter, who farms near Otterburne. "They have customers asking, 'is there any non-GMO milk or cheese?'"

Gorter and his son, Albert, introduced a resolution at the Dairy Farmers of Manitoba meeting in Winnipeg in early December that asked the board to work with dairy processors to "make the (non-GM) market opportunity a reality for Manitoba registered producers."

Non-GM milk would come from Holstein and Jersey cattle fed a ration of non-GM grain and oilseeds.

The resolution passed easily.

Gorter said pursuing this market niche makes sense, given that Canada's free trade deals with Europe and the Trans-Pacific Partnership will soon give many countries access to Canadian dairy consumers.

"We're not arguing whether it (GM free) is better or worse," Gorter said.

"But if we can't supply that milk to them, it will never be a Manitoban or Canadian product.... There are two processors, or three processors in Manitoba, that have been talking about it (non-GM milk)."

A producer at the Winnipeg meeting said Manitoba farmers already produce organic milk, which is non-GM. Therefore, another product category is unnecessary.

Dave Eto, chief executive officer of the British Columbia, Dairy Association, supports that argument.

"This is a further segmentation of something that is already happening."

Eto said it's possible a small processor in his province may produce non-GM milk and cheese because it is a "hot bed" for anti-GMO sentiment.

"We've had a number of municipalities that have been pushing for non-GMO designations," he said.

"(But) I'm not aware of (a) non-GMO labeled dairy product."

Eto said putting a non-GM label on a milk carton is more complicated than "slapping on stickers."

"You are required, as a processor, to follow the laws of how you can label products," he said.

"There potentially could be some claims issues... the Canadian Food Inspection Agency has to consider before they'll allow someone to make those types of claims."

Gorter hasn't decided if he will switch to non-GM feed, but he said it would be possible to do because of the availability of non-GM corn, soybeans and canola in Manitoba.

"I know a canola crusher in Ste. Agathe... when I presented my canola last year in December, they

were shut down for non-GMO canola and I couldn't bring my canola in."

Dairy producers would have to go through a one year milk cycle feeding a non-GM ration to qualify as non-GM.

It means GM-free milk wouldn't be on store shelves until 2017 if Manitoba dairy farmers and processors were to immediately pursue the niche market.

"I know there are (dairy) producers out there that will start feeding non-GMO corn and beans, as soon as Jan. 1, 2016," Gorter said.

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### ORGANIC MILK IN B.C.

- British Columbia is a major market for organic food, but organic milk, cheese and yogurt represents a tiny slice of the total dairy production in the province.
- B.C. dairy farmers produced 61.2 million litres of milk in October. Of that, 2.3 million litres were organic.
- Organic market share for October was 3.76 percent.
- A spokesperson for the B.C. Milk Marketing Board said the annual percentage is slightly higher and probably close to four percent.

Source: staff research

MAPLE SERIES SOYBEANS

## Researcher Harvey Voldeng honoured

SASKATOON NEWSROOM

Harvey Voldeng, a honorary research associate at Agriculture Canada, has received the Seed of the Year award for the Maple Series of soybeans.

SeCan and the University of Guelph presented the award Dec. 14.

The Seed of the Year competition shines a light on a field crop that has been publicly developed in Canada.

Maple Arrow was the first variety in the series and was originally registered in 1976. It was designed to mature and yield well in short growing seasons such as Ontario, Quebec and Manitoba.

Producers had previously not had a successful soybean crop to grow in rotation with cereals and corn.

The Maple Glen variety became

the dominant soybean variety not long after registration. More than 40,000 tonnes were sold over the next 15 years and grown on more than 1.5 million acres.

Production has increased eight times since the 1970s, and many early maturing varieties today can be genetically linked back to the Maple Series.

The soybean variety has been grown on more than a million acres in Western Canada.

Farm cash receipts in 2014 were more than \$2.2 billion on more than 5.56 million soybean acres.

Soybean research continues to improve nutritional characteristics, yield, disease-resistance and marketability.

Although retired, Voldeng is currently researching spring wheat for bread.

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Snowmen warm their hands on the Deedman farm near Belmont, Man. | LILLIAN DEEDMAN PHOTO

FARM WORK SAFETY BILL

# Bill 6 not likely to prompt unions

Right to unionize had little effect in Sask.

BY MARY MACARTHUR  
CAMROSE BUREAU

There's little chance that Alberta's 60,000 farm workers will rush to join a union, says Fred Bayer, registrar with the Saskatchewan Labour Relations Board.

"It is fair to say that is a silly assumption that everybody is going to unionize. The workers must want to be represented by a union; the unions just don't go in

there and unionize," said Bayer.

"Very few workers on farm operations sit back and say, 'I want a union to represent me.'"

Alberta's controversial Bill 6 will remove the exemption that prohibits Alberta farm workers from forming a union. The exclusion from the Labour Relations Code is considered to interfere with the Canadian Charter's right to associate.

Many farmers at Bill 6 rallies and consultation meetings suggested the bill was disguised to bring unions to farms.

In Saskatchewan, farm workers have had the right to unionize since the Trade Union Act was first acclaimed in 1945, but few farm workers have unionized over the years, said Hugh Wagner, general secretary for the Grain and General Services Union.

The GSU represents workers at Wild West Steelhead, a fish farm at Lucky Lake, Sask., and Hillcrest Farms, a turkey hatchery at Bruno, Sask., as well as millers, elevator agents and employees of *The Western Producer*.

Despite the ability to unionize, Wagner believes only a handful of farm workers in Saskatchewan are unionized.

"I suspect the number is pretty low. You don't find large concentrations of workers in a particular farm."

Eighteen employees of Bear Hills Pork Producers Ltd. near Perdue, Sask., joined the GSU in 1999. It was the first barn in the industry to be organized.

However, it and several other barns, both unionized and non-unionized, went into receivership when the hog industry collapsed during the mid 2000s.

Wagner said no union is going to approach family farms to unionize. A farm needs at least 10 workers before it becomes viable to unionize.

Bayer said only a handful of farm operations in Saskatchewan have unionized since the 1960s.

Workers at Barrich Farms, a potato farm near Outlook, Sask., unionized in 2008 and decertified two years later.

Starline Farm, operating as Star Egg, an egg processor, certified in 1977, and its workers are still members of the United Food and Commercial Workers Union.

As well, the National Farmers Union's administrative staff unionized in 1972.

Bayer said union certifications are more a reflection of economic times than changing governments.

"When provinces or the economy prospers, unionization rates aren't as high. When the economy goes down the toilet and people start losing their jobs and employers aren't paying wages and going bankrupt, workers get concerned," Bayer said.

"It's a trend that holds in Canada and the U.S.... Bad employers make great unions."

mary.macarthur@producer.com



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DEVINE ERA

# National Farmers Union elated over failed trade talks

## FROM THE ARCHIVES



BRUCE DYCK, COPY EDITOR

*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: DEC. 19, 1940

The Western Agricultural Conference met in Regina Dec. 11-12 to talk about wheat and livestock policy in advance of the Canadian Federation of Agriculture annual meeting in January. Delegates discussed acreage reduction, elevator and farm storage, quotas, additional payments for the 1939 and 1940 crops, a processing tax and prices.

The prairie wheat pools were considering a construction program to build additional grain storage to accommodate delivery of the remainder of the 1940 crop.

Pool directors said they had pretty much run out of confidence that the federal government would set up an advance payment plan for grain stored on farms.



Canadian Federation of Agriculture board members pose for a photo in 1960. | FILE PHOTO

### 50 YEARS AGO: DEC. 16, 1965

Great Britain remained Canada's largest and most consistent wheat market, buying 70 million bushels in grain and 10 million bu. in flour. China was second at 62 million bu., Japan bought 50 million bu. and the European Common Market took 49 million bu.

The Soviet Union and other eastern European countries bought a total of 80 million bu., mainly using credit from the federal government, although the Soviets did spend cash to buy eight million bu. of wheat and 6.5 million bu. of flour for Cuba.

Roy Atkinson of Springwater was given a third term as president of the Saskatchewan Farmers Union. He won the office by acclamation. Vic Althouse, who later became a long-time NDP member of Parliament from Saskatchewan from 1980-97, was elected the organization's youth president.

### 25 YEARS AGO: DEC. 20, 1990

The National Farmers Union angered Saskatchewan premier Grain Devine when it expressed relief that trade talks under the General Agreement on Tariffs and Trade had failed.

The NFU was worried that a trade deal would disproportionately help multinationals, but Devine pointed to the Soviet Union, which had a completely administered system with no multinational companies. "They were pure in the eyes of the socialists, and what have you got? Mass hunger, abuse, waste, poverty, no hope, economic disgrace, disparities," he said. "So send the NFU over to the Soviet Union and ask them to fix it up? It's a pure place. There's not a multinational in sight."

The Senate approved the Progressive Conservative government's goods and services tax.

### 10 YEARS AGO: DEC. 15, 2005

Japan lifted its two-year-old ban on beef from Canada and the United States, but considerable red tape remained. The ban had been put in place after BSE was found in North America.

Statistics Canada stunned canola growers with its final crop production estimate of 9.7 million tonnes. The trade had predicted 8.6 to 9.2 million tonnes. The large crop was expected to continue playing havoc with canola prices.

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## LIVESTOCK

# Disease-resistant pigs latest gene editing win

The genetic technology made it possible to breed hogs resistant to porcine reproductive and respiratory syndrome virus

LONDON, U.K. (Reuters) — A British animal genetics firm, working with U.S. scientists, has bred the world's first pigs resistant to a common viral disease, using the hot new technology of gene editing.

Genus, which supplies pig and bull semen to farmers worldwide, said it had worked with the University of Missouri to develop pigs resistant to porcine reproductive and respiratory syndrome virus (PRRS).

The condition, also known as blue-ear disease, can be fatal because it affects the animals' immune system and costs farmers

hundreds of millions of dollars a year. There is no cure.

By using precise gene editing, the team from the University of Missouri was able to breed pigs that do not produce a specific protein necessary for the virus to spread in the animals. Their research was published in journal *Nature Biotechnology*.

Early-stage studies showed the new PRRS resistant pigs, when exposed to the virus, did not get sick and continued to gain weight normally.

The development of these resistant pigs is further proof of the power of gene editing, which is tak-

ing the biotech industry by storm. Genus chief scientific officer Jonathan Lightner said it was "a potential game-changer for the pork industry."

## Human challenges

Editing the genes of living organisms holds great promise for treating diseases and improving agricultural crops and animal species. However, when applied to humans it could also be used to create "designer babies," prompting critics to call for a global ban on genetic modification of human embryos.

The technology allows scientists to edit genes by using biological "scissors" that operate a bit like a word-processing program that can find and replace selected stretches of DNA.

It has been used in laboratories around the world, even as the ethical and safety issues it raises are fiercely debated.

An international summit on human gene editing in Washington recently urged caution on human gene editing but said editing genes in human embryos was permissible for research purposes.

The work on Genus's gene-edited pigs is still at an early stage,

and Lightner said critical challenges remained to fully develop and commercialize the technology.

Liberum analyst Sophie Jourdier said commercialization would likely take five years or more, but the new resistant pig line would add to Genus's long-term growth prospects, given the economic importance of PRRS.

PRRS affects millions of pigs and costs the hog industry around US \$700 million a year in the United States and \$1.6 billion in Europe, according to a 2011 Iowa State University study cited by Genus.



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## ENVIRONMENT

## Wildfires threaten crop in Australia

The fires were expected to destroy nearly four percent of the grain production on Australia's west coast

SYDNEY, Aus. (Reuters) — Wildfires across Australia's west coast are likely to destroy nearly four percent of the grain production in the country's largest crop producing state.

The news supported global wheat prices in an amply supplied world market.

Most of Western Australian grain production at this time of the year is wheat, and Australia is the world's fourth largest exporter of the grain. As a result, any damage to its production would buoy benchmark futures that hit two-month lows in mid-November.

### Fatalities

Three major fires in Western Australia had burned 740,000 acres and killed four people as of mid-November.

"With the fires still burning, we don't get a full picture of what the damage will be. However, it is very likely that much of the areas burned will be grain farms," said a Western Australia-based grain trader.

Nearly four percent of Western Australian production would likely be lost if all the area burned was grain producing regions, traders added.

Slightly more than 20 million acres were devoted to grain production in the state in 2015-16, according to the Australian Bureau of Agricultural and Resource Economics and Sciences.

State officials have confirmed the number of acres burned by the recent fires but did not say how much of it was farmland.

"There was an inland trough that brought hot, dry and windy conditions, creating these catastrophic fire conditions," said Darryl Vink, forecaster at the Bureau of Meteorology.

# FARMLIVING

## CRAFTY CHRISTMAS SHOWS

Craft markets continue to be popular attractions in the runup to Christmas, particularly among female shoppers seeking unique gifts for friends and families. | **Page 22**



FARM LIVING EDITOR: KAREN MORRISON | Ph: 306-665-3585 F: 306-934-2401 | E-MAIL: KAREN.MORRISON@PRODUCER.COM

ALTERNATIVE CROPS

# Cranberries have long history in Canada

Berries are processed into drinks, sauces and healthy snacks

BY TOM WALKER  
FREELANCE WRITER

RICHMOND, B.C. — Nanaimo, B.C., grower Grant Keefer thinks cranberries are a funny crop.

“People don’t eat them, they are not a grab and go food. You cook with them,” he said.

Cranberries are cooked with sugar as a sauce for white meat, an ingredient in baking or for juice.

But that is not the original use for this member of the heather family that grows wild across the eastern United States and Canada.

Some describe the cranberry as an ingredient in the original energy bar.

When Europeans first arrived in the eastern U.S., First Nations were adding pounded cranberries to pemmican, the dried and oiled deer meat staple that helped sustain them through their travels.

The vitamin C in cranberries helped early settlers combat scurvy.

It wasn’t until Thanksgiving was declared an official holiday by U.S. president Abe Lincoln in 1863 and General Ulysses Grant ordered the berry to be served at army dinners that it regularly appeared on Thanksgiving tables.

The English, who serve fruit sauces with meat, likely added it to their Christmas dinner table, because the natural acid in the berry goes well with fowl.

Cranberries have been cultivated since the early 1800s and while their natural growing environment is a peat bog soil, that is not important to the commercial grower.

“We make our own beds,” said Keefer, who operates the Yellowpoint Cranberry Farm with his wife, Justine. “Most commercial berries are grown in sand.”

Quebec and British Columbia are the cranberry centres in Canada. They are a thirsty crop in the summer and are suited to the Richmond deltas at the mouth of the Fraser River.

Flooded fields are an important



method of harvesting.

“The majority of our crop is picked for the fresh market,” said Keefer. “And B.C. berries are also good for Craisins.”

The popular dried fruit, a trademark of Ocean Spray, is one of the marketing strategies of the grower owned co-operative.

Dry harvesting begins in early October using a machine that looks like a sickle mower crossed with a giant comb.

Over the next six weeks, as the premium berries are picked dry, fields are flooded and worked with a wet harvester that beats the berries off the low lying vines.

An inner seed cell makes the berries buoyant and they float to the surface to be gathered inside plastic booms and wet vacuumed into a processor that separates the leaves

and berries. Wet harvested berries go into the juice market, which is also dominated by Ocean Spray.

“The Ocean Spray co-op are supportive of us and we are supportive of them,” said Keefer, chair of the B.C. Cranberry Growers Association.

“They are able to move our fruit and keep all of us growers (mostly family farms) happy, 80 of us in B.C. and 800 across North America.”

Ocean Spray can also take some of the credit for the well known canned jellied cranberry sauce.

It was originally invented in 1912 by New England grower and entrepreneur Marcus Urann, but a pre-Second World War version of the co-op launched the product across the U.S. in 1941.

It has appeared on North American holiday tables ever since.



TOP: Cranberries float to the surface where they are gathered in booms by labourers at Columbia Cranberry farm at Richmond, B.C.

ABOVE: Workers run wet harvesting machines at A.R. Savage and Sons at Richmond, B.C. | TOM WALKER PHOTOS

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## COUNTRY KITCHEN



DOROTHY LONG

The holiday season is full of traditions and family rituals in addition to ample opportunities to indulge in treats from butter tarts to egg nog to chocolates.

You can balance tasty goodies while trying to maintain healthy eating habits by focusing on adding more healthy options rather than avoiding certain foods. Also, focus on making those healthy options taste great.

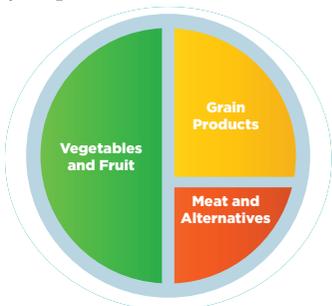
Start by making sure half of your plate of food is either vegetables or fruit. Canada's Food Guide recommends that women eat seven to eight servings per day and men eat eight to 10.

Most Canadian women are only eating 4.3 servings per day while men are only having 3.5 servings. Fruits and vegetables are loaded with vitamins, minerals, antioxidants and fibre.

A new Half Your Plate campaign from the Canadian Produce Marketing Association, The Heart and Stroke Foundation, the Canadian Cancer Society and the Canadian Public Health Association encourages Canadians to fill half their plates at each meal with fruit and vegetables.

If you only try one healthy habit this holiday season, make it this one.

For more information, visit #halfyourplate.



Health Canada has a visual representation of Canada's Food Guide called the Eat Well Plate.

Similar to the previous campaign, it divides the dinner plate so that half your plate is vegetables and/or fruit, a quarter is grains and less than a quarter is meat and alternatives.

It also includes water, milk and alternatives and some fat and oils. They are healthy eating tools that are easy to remember and simple to apply to Christmas dinner.

As you plan your holiday meals, focus on vinaigrettes made with healthy oils rather than heavy sauces. Roast your vegetables to add more flavour.

Add whole grains and pulses to your salads and side dishes.

Start the day by adding ground flaxseed to a fruit rich smoothie or a bowl of oatmeal. Drink plenty of water and get outside and enjoy some fresh air.

Here are a few tasty recipes to get you started.

Dorothy Long is a home economist in the agrifood trade and former greenhouse grower from Lloydminster, Sask. She writes a blog at [prairiekitchencompanion.blogspot.ca](http://prairiekitchencompanion.blogspot.ca). Contact: [food@producer.com](mailto:food@producer.com).



CANOLAINFO.ORG PHOTO

# Healthy holidays

## QUINOA SALAD WITH AJI AMARILLO DRESSING

Aji amarillo paste is available in larger grocery stores or use another chili paste or you can make your own using the recipe below.

### Quinoa:

1 c. quinoa	250 mL
2 c. vegetable broth	500 mL

Rinse quinoa well under cool water in fine sieve or several changes of water. Drain well. In large pot, boil vegetable broth and quinoa over medium heat.

Reduce to a simmer and cook quinoa until tender but still firm to bite, about 15 minutes. It's done when germ separates, making it look like a curly Q.

1 lb. aji amarillo peppers	500 g
2 tbsp. canola oil	30 mL

Cut peppers in half and discard veins and seeds. Wash hands thoroughly or wear plastic gloves to protect from heat of peppers.

In saucepan, cover peppers with

### Dressing:

1/4 c. canola oil	60 mL
1 tbsp. aji amarillo or mild chili) paste	15 mL
1 c. whole cilantro leaves	250 mL
1/4 c. lime juice	60 mL
1 tsp. salt	5 mL

Drain well and return quinoa to pot and turn off heat. Cover with tea towel and replace lid, allowing it to steam and producing fluffy quinoa as it cools.

**For dressing:** To food processor, add all ingredients and blend until smooth. If using fresh peas, bring medium-size pot of water to a boil over high heat. Add peas and cook

## AJI AMARILLO PASTE

water and boil until soft, about 10 minutes. Drain and cool.

Once cool enough to handle, remove skin from peppers. Place in food processor and add canola oil. Process until smooth. To thin paste, add water by spoonful until desired consistency. Store in refrigerator

### Salad:

1 c. peas, fresh or frozen	250 mL
15 oz. cannellini beans, drained and rinsed	426 mL
1/2 c. celery, chopped	125 mL
1/2 c. red onion, diced	125 mL

about five minutes. Strain and rinse with cold water to cool. If using frozen, skip this step.

In a large mixing bowl, combine cooled quinoa, peas, beans, celery, red onion and dressing. Mix until dressing is distributed. This dish may be prepared one day ahead.

Source: Dietitian Manuel Villacorta, [www.canolainfo.org](http://www.canolainfo.org).

for up to three days or freeze in ice cube trays and store in plastic bags for up to three months.

Note: For more heat, substitute aji amarillo peppers with habanero or Scotch bonnet peppers. For less heat, use jalapeno.

Source: [canolainfo.org](http://canolainfo.org).

## BULGUR SALAD WITH NUTS (BATRIK)

3/4 c. uncooked bulgur	175 mL
1 lb. coarsely chopped plum tomato	500 g
1 tsp. tomato paste	5 mL
1 tbsp. olive oil	15 mL
1/4 tsp. salt	1 mL
dash of crushed red pepper	
1/2 c. finely chopped green onion	125 mL
1/3 c. finely chopped walnuts	75 mL

Cover bulgur with boiling water, stir, cover and let sit for 15 minutes. Drain excess water. Meanwhile, place tomato in the food processor, process until smooth. Combine tomato, bulgur and tomato paste in a large bowl.

Cover and let stand one hour. Stir in oil, salt and pepper. Add onions and nuts just before serving. Serves four.

Source: Adapted from *Cooking Light Global Kitchen: The World's Most Delicious Food Made Easy*.



DOROTHY LONG PHOTO

### HONEY ROASTED CARROTS WITH TAHINI YOGURT

- |  |       |             |  |
|--|-------|-------------|--|
| 3 tbsp. honey  | 45 mL | 3           | thyme sprigs   |
| 2 tbsp. olive oil                                    | 30 mL | 12 large    | carrots, 2 by 6 cm peeled, cut into 3/4 by 2 1/2 inch batons |
| 1 tbsp. coriander seeds, toasted and lightly crushed | 15 mL | 1 1/2 tbsp. | cilantro 20 mL leaves, coarsely chopped                      |
| 1 1/2 tsp. cumin seeds, toasted and lightly crushed  | 7 mL  |             | salt and black pepper  |

#### Tahini yogurt sauce

- |                         |        |
|-------------------------|--------|
| 3 tbsp. tahini paste    | 45 mL  |
| 2/3 c. Greek yogurt     | 150 mL |
| 2 tbsp. lemon juice     | 30 mL  |
| 1 clove garlic, crushed | salt   |

Preheat oven to 425 F (220 C). Place the ingredients for the tahini sauce in a bowl with a pinch of salt. Whisk together and set aside. Place the honey, oil, coriander and cumin seed and thyme in a large bowl with one teaspoon salt

and a good grind of black pepper. Add the carrots and mix well until coated, then spread out on a large baking sheet and roast in the oven for 40 minutes, stirring once or twice until cooked through and glazed. Transfer the carrots to a large

serving platter or individual plates. Serve warm or at room temperature, with a spoonful of sauce on top, scattered with the cilantro. Serves four. Source: *Plenty More: Vibrant Vegetable Cooking*.

### BACON BAKED BEANS

- |                          |        |
|--------------------------|--------|
| 3 c. dried white beans   | 750 mL |
| 8 slices of bacon, diced |        |
| 1 large onion, chopped   |        |
| 5.5 oz. tomato paste     | 165 mL |
| 1 c. molasses            | 250 mL |
| 1 c. yellow mustard      | 250 mL |
| 2 tsp. hot sauce         | 10 mL  |
| 3 c. water               | 750 mL |

The only hard part about cooking beans is remembering to soak them the day before you need them. Simply toss them into a bowl, cover generously with water and let them sit overnight.

The beans will slowly absorb water and begin to soften, making them much easier to cook.

When ready to get cooking, drain and rinse them.

For a quick soak, toss them into a pot, cover with lots of water and bring to a furious boil for a few minutes.

Turn off the heat, cover tightly and let sit for one hour. Drain and rinse.

Toss the bacon into a heavy skillet. Add one cup (250 mL) of water (this helps the bacon cook evenly).

Set the heat to medium-high and cook, stirring often, until the water is evaporated and the bacon is crisp, 10 minutes or so.

Pour off about half of the flavorful fat to lighten things up. Pour the bacon and its fat into the slow cooker.

Add the onions, tomato paste, molasses, mustard, hot sauce, drained beans and the water. (I added six cups/1.5 L of water).

Give everything a good stir, cover and cook on low for about eight hours. Serve with crusty bread.

Serves four to six.

Source: *The Canadian 2015 Cookbook of the Year – Family Meals*.

#### SETTING BOUNDS

## Who makes the decisions?

### SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

**Q:** We have the cutest daughter imaginable. She is sharp, too. Actually that is what worries me.

My husband thinks that because our daughter is intelligent that he can encourage her to make decisions for our family.

Often as not, she is up past her bedtime because she wants to watch something on Treehouse (a television show for kids) and if she doesn't feel like eating supper when the rest of us do, or if she doesn't like what the rest of us have, my husband will relent. She has had a number of peanut butter and jam sandwiches rather than proper meals.

When I talk to my husband about this, he says that his own mother suppressed him when he was a child and he does not want to do the same to our little girl.

He thinks that letting her make decisions is in the long run healthy for her. I am inclined to disagree. What do you think, Mr. Andrews?

My husband and I otherwise get along really well. We love each other dearly and we will certainly not let our disagreements about our daughter hurt our relationship.

**A:** This is one of those moments that makes me want to say, "stop, stop, you are both right."

Four-year-old children can make some decisions for themselves, and giving them the opportunity to take on personal responsibilities gives them a confidence that may carry over into adolescence.

But let's not forget that four-year-olds also need some guidance. It is important that parents accept their responsibilities, even if it means at times disappointing the children.

You and your husband can resolve your differences by looking at the kinds of decisions that have to be made for children.

You set bed times, meal times and play times. You decide whether or not your children should be wearing winter coats in the midst of a snowstorm, and you make sure that your children are not playing on the streets. Fundamental decisions are key to their survival.

Your child can make comfort decisions. She can decide which fruit she wants for dessert, the color of the dress to wear and who she wants to play with. Who, better than her, would know which book you should read to her at bedtime.

If you and your husband write down which decisions you are going to make and which decisions your daughter can make you can get back to supporting each other and your daughter.

You need to do this exercise annually or even more frequently to keep up to your maturing daughter.

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

# y eating

### FIESTA RICE

This dish is healthy and looks great with the colourful ingredients.

- |  |        |
|--|--------|
| 8 c. low sodium chicken or vegetable broth | 1.75 L |
| 2 c. wild rice                             | 500 mL |
| 1 tsp. salt                                | 5 mL   |
| 2 tbsp. canola oil                         | 30 mL  |
| 1 medium white onion, chopped              |        |
| 1 c. diced red bell peppers                | 250 mL |
| 1/2 c. chopped walnuts                     | 125 mL |
| 1/2 c. golden raisins                      | 125 mL |
| 1/4 c. finely diced parsley                | 60 mL  |

In large saucepan, bring chicken or vegetable broth to a boil, then stir in wild rice and salt.

Reduce heat and simmer, covered, 40-45 minutes or just until kernels puff open. Uncover and fluff with fork and simmer additional five minutes. Drain any excess liquid.

In large serving bowl, place cooked rice and set aside to cool.

In large saute pan, heat oil over medium heat. Add onion and saute until translucent. Add peppers, walnuts and raisins.

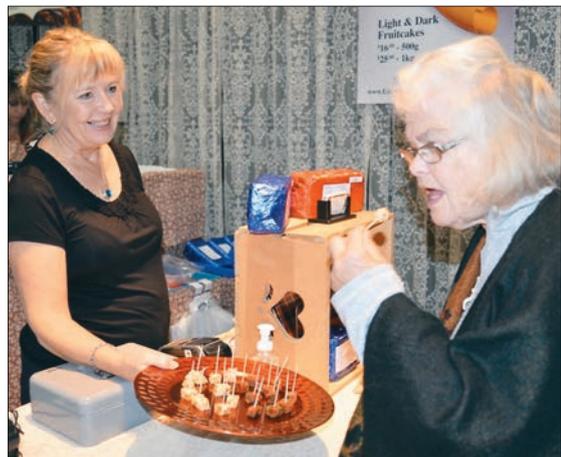
Cook until lightly browned and fragrant. Add sauteed mixture and fresh parsley to wild rice. Stir to combine and serve warm.



CANOLAINFO.ORG PHOTO

CRAFT MARKETS

# Homemade art, crafts popular for gift giving



BY MARIA JOHNSON  
FREELANCE WRITER

RED DEER — Craft offerings from gourmet treats and fashion to home decor and toys are endless at



LEFT: Tony Pook models his Pook Onesie as he demonstrates one way to wear his Pook Toque to Cassidy Stainton of Jasper, Alta., at the annual Our Best to You Art and Craft sale in Red Deer.

ABOVE: Samples were available at Grandma's Traditional Fruitcakes. RIGHT: Yvette Kalan of Lacombe, Alta., decides on crafts from Daisy Lane Creations of Minnedosa, Man. | MARIA JOHNSON PHOTOS

the numerous sales held in many communities during the Christmas season.

The shows range in size from small gatherings in community halls to mega multi-day events in spacious venues that attract thousands.

One example is Our Best To You Art and Craft Sale, held in Red Deer each year. It features more than 200 artists, artisans and designers from across Canada, many of whom crisscross the country selling their products.

Vendor and jewelry artist Kat Cadegan of Revelstoke, B.C., said she grew up going to craft sales.

"I bought things that people made with their hands. Those are some of my favourite memories," she said.

Cadegan likes the direct interaction with customers.

"They can share the story of where they got the piece and how it was made," she said. "You're connecting with people. It's a much more pleasant way to shop."

Sandra and Sam Thiessen agree. They collect, process and sell honey and related products through their Tofield, Alta., based business, Beary Berry Honey.

"We have far more exposure to different crowds. People like to get to know the person behind the product and hear their story. They can taste the product. It makes it more personal," said Sandra.

She said sales were surprisingly good given the economic downturn, but cited slower sales in oil towns such as Lloydminster and Fort McMurray.

Randy and Cheryl Tremblay have operated a sign and decal company, Pinetree Innovations, at Saskatoon since 1995.

"There is a shortage of unique gift/product offerings as small retailers are fading due to the introduction of large big box stores," said Randy.

"The craft shows still offer those unique handmade items that make a special gift," he said.

The couple gets much fulfillment from seeing customers purchase products they have created.

Randy said most craft fair shoppers are women.

"Mainly women like coming to these events with their girlfriends and making a day out of it ... interesting products to purchase and great company to share it with."

Merry Christmas  
Wishing you and your family peace and joy throughout the Christmas Season and a Happy New Year!

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Christmas is a season of reflection, peace, joy and the wonder of Jesus' birth.

I wish you and your family a Merry Christmas and a blessed, prosperous 2016.

**David Anderson MP**  
Member of Parliament - Cypress Hills - Grasslands  
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**RICHARD GIBBONS LAW OFFICE**

Very best wishes to you and your loved ones during the Holiday Season and the New Year!

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**Merry Christmas to All**

David Schneider MLA  
Little Bow Constituency

Wishing you peace and joy during the Christmas season and a Happy New Year!

1-800 563 0917  
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**Season's Greetings**

As we observe this festive season, the Manitoba government is pleased to extend best wishes to you and your families for a safe, happy holiday season and a prosperous new year.

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**RANDY HOBACK MP**  
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SASKATCHEWAN ENTREPRENEURS

# Family cracks market for shelled nuts

Nutcracker designers say a product must be different and sensibly priced to be successful



BY KAREN MORRISON  
SASKATOON NEWSROOM

Being unique and putting a new spin on an old idea will get your product noticed among the blur of booths at craft shows, say two entrepreneurs.

“Walk around and see. Think outside the box,” said Brenda Siemens of Elrose, Sask.

She, her husband, Dean, and their teenagers, Randy and Bailey, create and sell the Easy Crackin’ Nutcracker at craft shows and online for shelling nuts.

“If it’s going to be pottery, have something no one else has thought of making. Be your own person,” she said.

Dean also encouraged would-be entrepreneurs to stick with it.

“You’re not going to become a big business in the first couple of years,” he said.

The biggest selling feature for

their nutcracker is its ease of use and mess free design. The nut rolls into a bowl, the nutcracker is turned and the nut is shelled rather than smashed.

It’s a far cry from the hand pinching pliers type, they say.

The Siemens haven’t applied for a patent, which would force them to reveal the “trade secrets” that make their nutcracker unique.

“It’s not so different, but people just haven’t thought of it,” said Dean.

Eye appeal and price are key, the couple said, noting their \$25 nutcrackers come in a variety of wood stains. Instructions are also provided to make shelling nuts such as Brazilian and walnuts easier.

Brenda said they have seen others sold online but for twice as much.

“That’s out of reach,” she said.

Their market is principally the pre-Christmas craft show season, and the Siemens attend nine major

events a year.

They built the business gradually over the last five years, and it’s getting closer to being able to sustain the family. That includes sales internationally and into retail outlets.

For now, both work at other jobs: she as the town postmistress and he as a school bus driver.

The Siemens say they created the business to provide employment for their family in a small town where jobs are scarce.

Manufacturing the nutcrackers is a family affair at their home, a refurbished former Legion hall.

They usually make about 50 at a time in assembly line fashion, with the couple doing the wood turning and dowel making, Bailey managing the threading and Randy creating the bowl section.

Randy, an admitted introvert, prefers that to attending to the steady flow of customers filing past their booth at this month’s SunDog Arts and Entertainment Faire in Saskatoon.

“I’d rather be in the shop building,” he said.

For the future, the Siemens would like to tap into tourist markets with nutcrackers labelled with the location where they’re sold. They already personalize some with labels such as “dad” and “grandpa.”

In addition, they are pondering ideas for creating a boxed gift set that includes nuts.

karen.morrison@producer.com



Dean Siemens demonstrated how his nutcracker works at the Sundog Arts and Entertainment Faire in Saskatoon Dec. 5. The family produces the Easy Crackin’ nutcracker from their Elrose, Sask., home. | KAREN MORRISON PHOTOS

May peace and joy be with you and your family through the coming year.

From the Progressive Conservative Party of Saskatchewan



**Rick Swenson, Leader**  
Please visit us at [www.pcsask.ca](http://www.pcsask.ca)

Merry Christmas and a Happy New Year!

From our family to yours, we hope your holidays are filled with love, joy, and community as we gather together this season.

Sincerely,  
Oneil and Michele Carlier,  
And our children, Christopher, Mande, Matthew, Derek, Dylan, Drea and KaliRose.




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# Merry Christmas and Happy New Year

## Your Saskatchewan Party MLAs

CULTURES COME TOGETHER

# Canadians meld ethnic traditions

## TEAM RESOURCES



BETTY ANN DEOBALD, BSHEc



Phyllis Cunningham travelled to Spain and took a picture with her to show locals how Canadians make angels in the snow. They showed her how they make angels in the sand. | PHYLLIS CUNNINGHAM PHOTO

Our readers shared their holiday traditions as part of our International Holiday Traditions contest.

Marnie Sholdice of Calgary was selected the winner of a gift basket for her story of how Canadians' many different ethnic backgrounds make our Canadian culture.

### Marnie Sholdice, Calgary

Her husband grew up in a town with many homesteaders, including some who came from Iceland.

His family, like hers, was of British descent and ate items like plum pudding and mince tarts. Her mother-in-law's sister married an Icelander and soon she was taught how to make vinatarta, a prune cake, by her husband's family.

When the rest of the family tried the tasty treat, they were definitely on board, and it appeared on the dainty tray every year.

As a new bride, she learned how to make all those layers, and then it became a traditional item on the baking list every Christmas. Her husband now does the honours.

Neighbours have Icelandic and French (Quebec) backgrounds. The wife makes tourtiere, the French meat pie, and Sholdice's husband gives them vinatarta every year.

We are people from many nations who meld each other's traditions into our own.

Joyeux Noel, Gleoileg jol.

### Karma Goodbrand, Youngstown, Alta.

To help her family stay connected to her Norwegian roots, she bakes round Julekage loaves and serves them with butter and pieces of Jarlsberg cheese. She also loves using Julekage to make toasted ham and cheese sandwiches.

She and her children spend an afternoon before Christmas making Krumkake on an iron that used to belong to her husband's grandmother.

For Christmas dinner dessert, they spoon red jam and sweetened whipped cream into these shells. God Jul.

### Carol Dunham, Waldeck, Sask.

Her husband is Norwegian and she is German, so lefse was something she had to learn to make for the family to enjoy.

### Sharlene Stanley, Pilot Butte, Sask.

The "dreaded fruitcake" is her family's well-loved Christmas tradition. Her mother started making fruitcake with her mom at age eight. Stanley started helping her mom, whose grandchildren eventually also pitched in.

The grandchildren are now grown and her father, a retired farmer, helps make the fruitcakes.

The family argument is about whether the cakes should be iced.

Her mom ices a few but delivers one without icing to Stanley, just the way she likes it best.

Stanley's grandmother believed "it was a tradition to visit your friends and neighbours during the holiday season to share fruitcake with them and that for each piece of fruitcake that you had, you would have one month of good luck."

Grandma also made sure her grandchildren learned to love olives, something served only for Christmas and Easter and also given as gifts.

### Betty Stanley, Gainsborough, Sask.

Her Scottish grandmother always made shortbread, cut into large thick slabs for serving with tea. She is sure they ate shortbread from November until March.

Nollaig Chridheil.

### Naden Hewko, Macklin, Sask.

Her parents immigrated to Canada from Ukraine, bringing with them their traditions of celebrating Christmas as a religious feast day honouring the birth of Jesus Christ.

Her mother always prepared the Ukrainian Holy Eve supper on Christmas Eve, Jan. 6 in the old Julian calendar.

Preparations were started several days in advance as they picked over the syrup pail of wheat for the first dish, kutia, served at Svyata Vechera. The custom was to serve 12 dishes in memory of the 12 apostles and meatless dishes in honour of Mary's difficult journey to Bethlehem.

The kutia was followed by borsch (beet soup) served with kalach (braided bread). Next in line was fried fish, two kinds of holobchi (cabbage rolls filled with rice and with buckwheat).

After that came two kinds of perogies with mushroom and onion sauce. The perogies were usually filled with a potato-onion and a sauerkraut mixture.

For dessert, her mother cooked dried fruit (compote) with dough based pumpyskies (like a doughnut without the hole) and pershies (rolls filled with cooked runes and figs).

There was no electricity so the children had to carry in firewood to keep the old cook stove going for her mother, who cooked all the food.

When Hewko married, she adapted the Christmas Eve Ukrainian style supper to Dec. 24 and the traditional turkey dinner to Dec. 25. Her children still prefer the

Ukrainian style Svyata Vechera. Now her married granddaughter makes the Ukrainian foods.

Hewko has compiled her Ukrainian recipes into a cookbook so the family traditions can continue.

She buys gluten free perogies and uses quinoa to make kutia for a gluten intolerant granddaughter. Once cooked, it is flavoured with crushed poppy seeds and honey.

Khrystos Razdayetsia.

### Evelyn Keyowski, Shellbrook, Sask.

Her childhood memories are of food preparation that started two weeks before Christmas. That included cleaning kutia and grinding poppy seeds for the main dish served at their Sviata Vechera.

She recalled waking up to the smell of kutia slowly simmering on the side burner of the wood stove. Other smells permeated the air later in the day, including cabbage rolls, fried onions, boiled perogies and fried fish.

Setting the table was the sign that the hard labours of preparation would soon be enjoyed.

After feasting on the 12 dishes, the family sang carols until midnight mass. She recalled "pilling in" an older sibling's vehicle and sitting on each other's laps.

As a wife, mother, and a grandmother (baba), the family traditions continue. The trip to midnight mass is today more comfortable and the grandchildren find their time with cousins, aunts and uncles much too short.

### Bev Sobush-Melby, Midale, Sask.

When she travelled to Norway a few years ago, she experienced the May 17th tradition of Syttende mai day, the country's independence day.

People dress in colourful traditional clothing (bunads), carry their flag and parade to the church and listen to presentations.

On Christmas Eve, she serves lutefisk, lefse (flatbread) and desserts such as Kringle cookies and Krumkake. Family goes to a Christmas Eve candlelight service at church, then return home to open gifts and sing carols.

Team columnists Sarah Galvin, Jodie Mirosovsky and Betty Ann Deobald wish all of their readers a safe and happy holiday season celebrated in their own traditions.

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



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ON THE FARM

# Rug maker enjoys growing her medium

Rare breeds produce wool like 'a little chain of pearls'

BY ROBERT ARNASON  
BRANDON BUREAU

CARBERRY, Man. — Casting a quick look around Gerry Oliver's kitchen and living room, it's easy to spot at least a dozen items related to sheep.

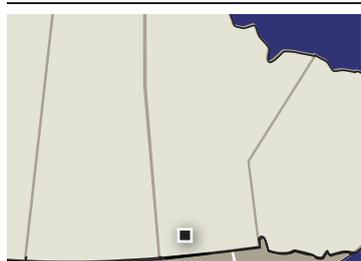
There are sheep photos on the fridge, ceramic tiles with sheep images, sheep hides hanging over chairs, trophies for best fleece, books on Canadian sheep history and plastic bags filled with wool on chairs.

Despite all the paraphernalia, Oliver is no fanatic.

Sitting at the kitchen table of her farmhouse north of Carberry, Man., Oliver shared her passion for sheep and wool.

Oliver grew up in Ottawa, where she had no connection to farm life,

ON THE FARM



GERRY & RALPH OLIVER  
Carberry, Man.

but became interested in wool as a young adult.

"I was a rug hooker," she said, gazing out windows framing the Trans-Canada Highway in the distance.

After training as a lab technician, Oliver took a job with the federal government in Kingston, Ont. She met Ralph Oliver from Carberry, who had a term position in the same government office.

Following their courtship, Gerry quit her job and moved to Ralph's



ABOVE: Gerry Oliver is particularly fond of Margaret, a Wensleydale sheep that's part of her flock near Carberry, Man. Oliver has several unique and rare breeds of sheep, including Romneys and Cotswolds.

| ROBERT ARNASON PHOTO

RIGHT: Ralph Oliver sorts through fleece that will be sold to weavers and artists. | OLIVER FAMILY PHOTO

family farm in Manitoba.

"I always wanted to live on a farm," said Oliver, who was fascinated by horses and animals as a child.

Ralph's family had moved out of livestock and were operating a grain farm. But two decades ago, the Olivers expanded the farm, buying a tract of land under cultiva-

tion and some pasture.

They decided on sheep after meeting members of the Manitoba Sheep Association at a grazing school.

Oliver's interest in rug hooking broadened into a passion for sheep and wool production. She maintains a blog called [www.all-things-wool.ca](http://www.all-things-wool.ca) and even created an art

exhibit with a sheep theme.

Oliver documented a year in the life of a sheep producer, painting scenes like feeding, shearing or herding sheep.

The exhibit, called a Shepherd's Diary, has been shown at galleries in Manitoba and Saskatchewan.

CONTINUED ON NEXT PAGE >>

Happy Holidays!

**Ron Kostyshyn**  
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Merry CHRISTMAS

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MERRY CHRISTMAS

Wishing you and your family peace and joy this Christmas season.  
Best Wishes for a Happy New Year

**Ian Wishart, MLA**  
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From my family to yours, have a Merry Christmas & a Happy New Year

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» CONTINUED FROM PREVIOUS PAGE

Today, Oliver has more time for art because the couple rents most of their farmland.

She now dedicates most of her time to her sheep herd, having developed a fondness for rare breeds.

Oliver raises several long wool breeds, including Romney, Cotswold and Wensleydale.

"The Wensleydales, there are only like three dozen in the country."

Oliver added Wensleydales in the fall of 2014 because the British breed produces one of the finest long wools in the world.

In a pen behind the farmhouse, Oliver haltered a docile Wensleydale named Margaret.

"The wool, it's almost like a little chain of pearls. It's very beautiful," Oliver said. "Most wools aren't like that."

Delia Burge raises Wensleydale sheep in Scotsburn, N.S. She said

the wool from Wensleydales is unrivalled.

"I've been a spinner and a weaver and have worked with wool for 40 years. It definitely is the ultimate in sheep's wool," she said. "The closest fibre would be mohair because it has such an incredible sheen."

Oliver sells her wool directly to fibre artists and crafters, who want to work with high quality and unique wool fibres. Demand is strong thanks to revived interest in traditional crafts like spinning, weaving and fibre art.

"I can sell my fleeces, individually, for many times what I would get for my wool if I sold it (through) the wool co-operative," Oliver said, noting most fleece is sold at about 60 to 70 cents a lb.

"I can sell one fleece, for, on average \$40 to \$50.... And the Wensleydales are a lot more than that."

Oliver also sees an opportunity to crossbreed her rare sheep with more common sheep to breed offspring that are productive for meat and wool.

Burge and Oliver both said that too many sheep producers focus on meat production and completely forgo wool.

"In the larger, commercial flocks, a lot of them dump their wool in the woods," Burge said. "They just can't be bothered to deal with it."

Oliver hopes to persuade Canadian sheep producers to do both.

"I want to say by using these long wools, or rare breed, to cross... they can produce high quality meat... and (garner) the extra money the wool can generate."

robert.arnason@producer.com

MISSION IMPULSEIBLE

# Pulses found in preposterous places

Chickpeas, beans and lentils found in sweet desserts and side dishes

BY MARY MACARTHUR  
CAMROSE BUREAU

EDMONTON — An Italian gelato made from white beans, chickpea flour and pea protein won top prize in a student food development competition.

BiotaGelata, made from fermented white beans with chickpeas, fababeans and pea protein, shows that pulses can be used for desserts rather than just side dishes, said Austen Neil, one of the students from the University of Alberta's food and nutrition department who developed the gelato.

"It shows beans can be made into something sweet and not just be a savoury dish," he said.

Neil and her teammates, Sujata Patel, Chandre Van De Merwe and Nicolle Mah, created the protein-rich dessert after learning about pulses from one of their nutrition instructors.

"He is passionate about pulses. Before the U of A, I didn't understand pulses," said Neil.

"It is such an awesome alternative to animal proteins. They grow in Alberta, are cheap and you can do a thousand things with them," she said.

Mission Impulseible challenges culinary and food students to create new foods using beans, peas and lentils.

Christine Farkas with Pulse Canada said the food that the students



Stephanie Stolk, student of NAIT's culinary arts program, holds a doughnut made from chickpea flour. | MARY MACARTHUR PHOTO

create for the competition may not end up on food store shelves, but they will think about pulses in their jobs.

She said she knows of former

competitors who have helped promote pulses in their food careers.

Stephanie Stolk, a culinary arts student from the Northern Alberta Institute of Technology, created Cinnamon Delights, a doughnut mix made from chickpea flour.

Clarissa Cardinal, Kali Brodwin and Tara Collins from Portage College Culinary Arts program in St. Paul, Alta., created Freak Sante, a roasted chickpea and haskap power bar made from roasted chickpeas, lentil puree and pea protein in an attempt to recreate a traditional native pemmican.

The trio was not familiar with pulses until their instructor, Malory Bowes, introduced them to the versatility of pulses and convinced them to enter the competition.

Bowes and her partner won a previous Mission Impulseible competition with their Angel food cake mix made from pulse flour.

It took the Portage students three months to come up with the perfect recipe, analyze nutrition tables and conduct a cost analysis of the bar for the competition.

"It's more than just cooking," said Brodwin.

The winners of Mission Impulseible will compete in the national pulse food development competition in Vancouver.

The United Nations has declared 2016 as International Year of Pulses.

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## ON THE MENU |

A farmer near Millarville, Alta., loads a flatbed truck with round hay bales. With the ground freezing and snow starting to fall, most livestock producers have started on winter feed. | WENDY DUDLEY PHOTO

SASK. MOISTURE

## Some areas will welcome dry winter

BY KAREN BRIERE  
REGINA BUREAU

Forecasts for a winter with below normal precipitation could be just what farmers in east-central and northeastern Saskatchewan need.

Most of the province is heading into freeze-up with normal moisture conditions, except for the Pipestone, Qu'Appelle, Assiniboine, Red Deer, Torch and Carrot river basins, said Saskatchewan's Water Security Agency.

In these areas, moisture is surplus and recent rain and snow are likely to have added to that.

Agency spokesperson Patrick Boyle said fall conditions are one indicator that experts use to forecast spring runoff.

"This is the first piece of the puzzle," he said after the WSA released its fall conditions report Dec. 10.

The other factors are the amount of snowfall and the rate of melt, along with rainfall during the melt.

"Even a normal or average snow pack could impact spring runoff," he said.

Last spring and early summer were dry throughout most of the grain belt, but the northeastern and east-central areas were wetter then and remain so.

Boyle said some stream flows in the Qu'Appelle, Pipestone and Assiniboine basins were still flowing at above normal levels at the end of October.

Most of the province received near normal precipitation between April 1 and Oct. 31. The region around Prince Albert, Hudson Bay and Melfort received 115 to 150 percent of normal, and so did a narrow band from Gravelbourg to Saskatoon. The only places to see below normal precipitation were the north and a small pocket near Maple Creek.

An area covering Last Mountain Lake and the southeast part of the Quill Lakes basins received more than 200 percent of normal precipitation in the 30 days preceding Nov. 22. Groundwater levels across the province have been increasing since 2010, Boyle added.

The WSA will issue its first spring runoff outlook in February.

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MANITOBA CONSERVATION DISTRICTS ASSOCIATION

## New technology key to food production

Speaker doesn't advocate a return to old-fashioned farming and welcomes agricultural advances like GM crops

BY ROBERT ARNASON  
BRANDON BUREAU

Jay Ingram, a science communicator known for his work on the Discovery Channel, is a pragmatist when it comes to food production and the environment.

He wants the public to be concerned about wildlife, habitat and ecosystems, but he also realizes that the world's 7.3 billion people need to eat.

"How can we produce enough food to feed everybody without dangerously compromising biodiversity?" Ingram told the Manitoba Conservation Districts Association's annual meeting in Brandon Dec. 8.

Ingram is best known for hosting the *Daily Planet* show on the Discovery Channel, but he also hosted CBC Radio's *Quirks & Quarks* show for 13 years and written 13 books about science and the brain.

He said preventing the extinction of wildlife species is important, but humanity will have to make hard choices about food production and animal species as agriculture and cities further encroach onto wild habitat.

However, Ingram doesn't think

modern agriculture is the villain in this story. He supports agricultural technology that boosts yields and reduces the need for additional acres.

"Ideally, we can produce more food (in the future) without greatly expanding our footprint. There are people who are optimistic we can do that. Maybe by using genetically modified crops.... I'm not the least bit worried (about GMOs).... We don't know of any risk ... to humans," he said.

"(If) you look at countries like Argentina and Venezuela, they're not worried about GMOs. They realize they can produce much more food, and they take the science at face value.... I think there are going to be way more countries in the world that see GMOs as the answer than will see it as an unpalatable risk."

Ingram also takes a pragmatic approach toward pesticides.

Neonicotinoid seed treatments have been blamed for a decline in pollinator populations, but Ingram said they may be preferable to alternate technologies.

"Neonics are a lot better for the environment than the pesticides that they used to use."

He is concerned about how bees are used to pollinate crops because the fruit and nut industries may be draining bee colony resources.

"If you take pollinators, like honeybees, I suspect they're pretty resilient ... but we are pushing them to the limits," he said.

"The almond crop in California, truck them all in.... You don't have to be genius to say, 'that doesn't sound sustainable.'"

Ingram's general message, that agricultural technology can be part of the solution, was the opposite of a previous keynote speaker at the Manitoba Conservation Districts Association meeting.

In 2012, David Suzuki told the convention that pesticides, GMOs and agricultural technology are the problem.

"Everybody tells me that the goal of industrial agriculture is to feed the world's masses. This is (how) Monsanto and all these companies justify genetically modified organisms... it's just a rationalization to justify what they are doing (making money)," Suzuki said.

"The idea of using pesticides, which I think is the dumbest thing that we've ever invented, to think

we can manage nature with pesticides, I just have to scratch my head.... We've got to get back to growing food the ways farmers did 60 years ago, where you used green manure and compost, and start using human feces the way the Chinese did 50 years ago. We've got to rediscover these things."

Ingram didn't talk about turning back the clock. Instead, he emphasized the importance of strategic choices.

The demand for food and resources will increase as global population expands. Ingram said humans might have to decide which species to preserve and which to forsake.

For instance, wolves might be an essential species in western North America but a certain wild bird may not be.

"We (may) have to be selective. People don't like to think of triage. It implies giving up," he said. "(But) there are going to be many tradeoffs. If it comes to a tradeoff between allowing a dramatic increase in the human population versus saving a few species, I think (we) know where that is going to go."

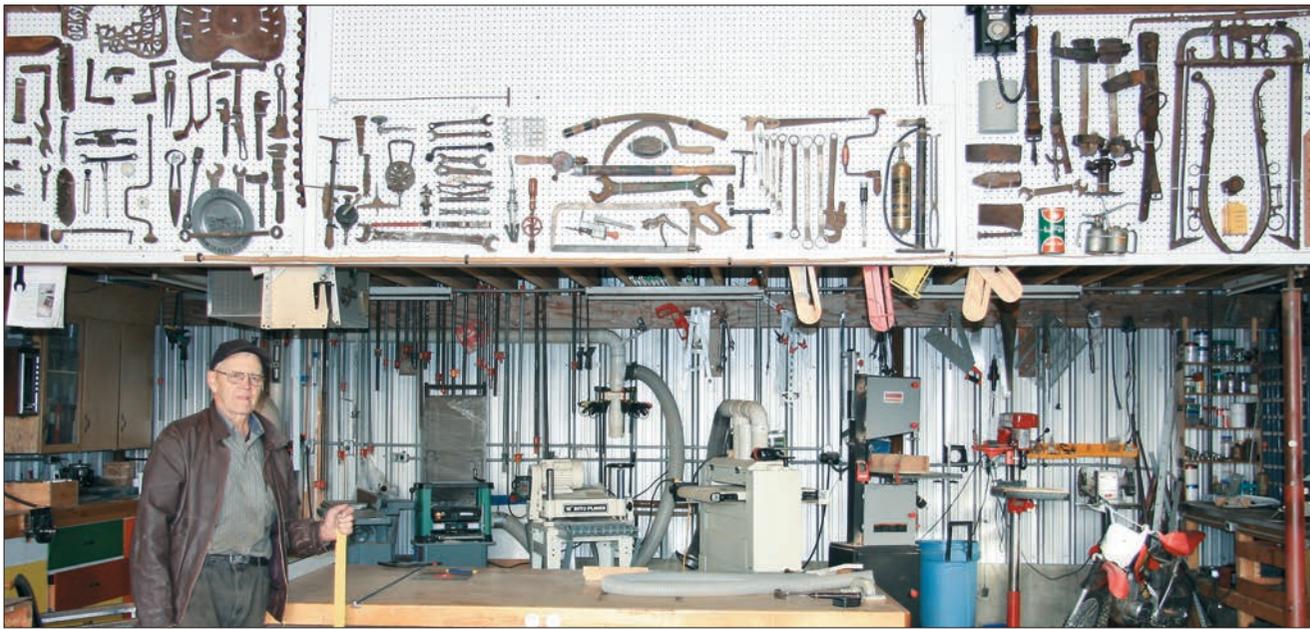
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Dean Chesser of Joffre, Alta., shows off his collection of old tools and Alberta licence plates, starting from the first year they were issued in 1912. He also has a 1953 Minneapolis-Moline tractor that his grandson is busy restoring. | DUANE MCCARTNEY PHOTO

COLLECTOR

## A century of Alberta licence plates comes together

Tools new and old intertwine in Dean Chesser's tool shed. He also collects telephone equipment from a bygone era

**DUANE MCCARTNEY**  
FREELANCE WRITER

JOFFRE, Alta. — Dean Chesser's father-in-law started saving his Alberta licence plates in the late 1920s.

Now, thanks to a *Western Producer* want ad, Chesser is the proud owner of a complete set of Alberta licence plates from 1912, which was the first year licence plates were issued in the province.

Chesser and his wife, Etta, started farming with her father in 1964 near Joffre just east of Lacombe, Alta., on land that Etta's grandfa-

ther bought from the Canadian Pacific Railway in 1901.

Chesser's father-in-law had kept some of his old licence plates, and Dean found them in a pile in one of the farm sheds.

"That's when I took an interest in collecting the plates," he said.

"The hardest ones to find were the 1912 to 1917 plates and the licence stickers for 1937 and 1945. I had looked all over the country but no luck. A friend convinced me to place an ad in *The Western Producer* and a fellow in Tofield, (Alta.), phoned me and said that he had the missing plates and stickers that I was look-

ing for. A subsequent transaction completed my set."

The government issued a paper sticker certificate instead of a metal plate from 1905-07, and from 1908-11 vehicle owners made their own plates or painted the registration number on the back of their vehicle.

As well, sticker registration numbers were issued in 1937 and 1945 and in 1986 Alberta started to use stickers on plates to indicate the current year.

"I have a complete set of original white plates for each of the past years and they didn't require the

yearly stickers," he said.

"I just asked the licence bureau each year for a new plate and they were able to give me one."

Chesser tells the story of a farmer from Clive, Alta., who hauled grain to the elevator with his tractor in the 1940s. He didn't have a licence plate on his tractor and local grain truckers complained that he was taking away their business.

The farmer was fined and the case went to court, which was held in the Clive hotel. Tractors were subsequently required to display licence plates when hauling grain.

Chesser is still looking for a trac-

tor licence plate from the 1940s.

Other antiques on Chesser's farm includes a 1953 Minneapolis-Moline tractor, which 11-year-old grandson Travis and his school friends are rebuilding. Etta's father had bought the tractor new.

Chesser worked as a lineman for the Spring Valley Mutual Telephone Company when he started farming and later was the organization's secretary-treasurer. As a result, he also prominently displays several telephone relics along with an assortment of blacksmith, wood working and general farm tools.

AGRICULTURE AND FOOD MUSEUM

## Ottawa museum's new exhibit tells story about canola breeding, uses, benefits

**BY SEAN PRATT**  
SASKATOON NEWSROOM

The Cinderella crop is about to become the belle of the ball at the Canada Agriculture and Food Museum in Ottawa.

It is preparing to launch a five-year exhibit featuring canola.

"It's kind of like this all-encompassing crop, which allows us to really tell the story of Canadian innovation, of success in science and inspire people," museum spokesperson Renee-Claude Goulet told delegates attending the

recent Canola Industry Meeting.

The museum attracts 180,000 visitors per year, and its programming reaches another 500,000 people online and through travelling exhibits. It is located on an experimental farm in the nation's capital.

"We're in the centre of Ottawa, which makes it pretty special because not a lot of people from Ottawa have been on farms," she said.

The facility is equipped with barns and barnyards that are home to a 50-head dairy herd, chickens, pigs and other animals in addition

to a large exhibition area.

The goal of the museum is to reconnect people to agriculture.

Goulet said it is a national museum, but there hasn't been much representation from Western Canada up until now.

"We haven't been great partners in the past," she said. "Our reach kind of ends in Ontario. We hope to partner up and have a greater reach throughout Canada."

The new canola exhibit, which takes 195 sq. metres of floor space at the museum, is one step in that direction.

"It's an ideal topic for an exhibit because it covers a lot of our history and current innovation."

The exhibit will celebrate the 50th anniversary of the crop and will educate visitors on the history of plant breeding, genetically modified food, the crop's use in the food, feed and fuel sectors and its environmental sustainability and human health benefits.

It will also focus on what will happen to the crop in the next 50 years.

"As much as we want to feature the past, we also want to feature the future," she said.

The hope is that the exhibit's educational component will help combat the false information that is being spread on social media about the crop.

"One of our jobs is to demystify that without brainwashing or anything. Just kind of having an objective point of view," she said.

Visitors to the Ottawa museum will see how canola oil is used to make food products in the demonstration kitchen and how the meal is fed to dairy cows and chickens.

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It's been about 2 months since our girls, Catie, Jana and Dara passed away suddenly on our farm. Since then, we have been overwhelmed with love and support in every way imaginable. One thing that has really touched us is the support we've received from people all over Alberta, our neighboring provinces, all across Canada, and beyond. Many churches, individuals and families just like us, who do not even know us personally, have sent their love and sympathy to us. What an encouragement. This road we find ourselves on is not an easy one, there's many different emotions we experience. But it is comforting and helpful to know that there's a large community out there who have reached out to us, and we want to extend our appreciation back to you. To everyone who has supported us in some way, we want you to know that we have been lifted by every prayer, been encouraged by every card and letter (yes, we've read them all), and appreciated the financial support that has come in many ways. It is our hope that we can reach as many of you as possible through this publication to say "Thank you". Words cannot express our gratitude. God bless you all this Christmas Season and in the coming years.

With much love, Roger, Bonita and Caleb Bott

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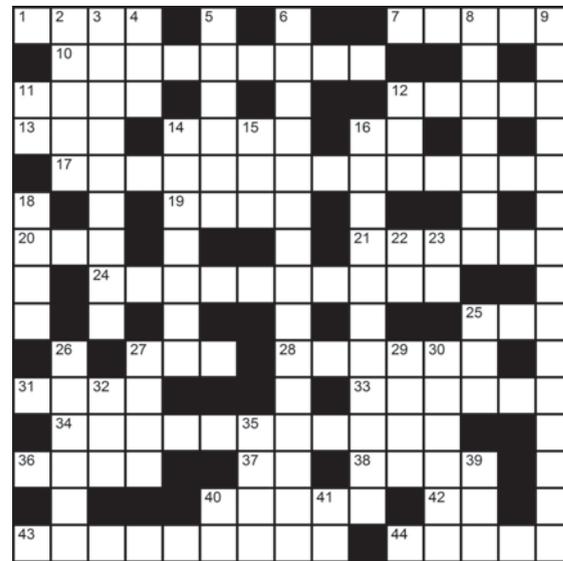
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**Entertainment Crossword by Walter D. Feener**



Last Weeks Answers

- ACROSS**
1. Lemmons who directed *Eve's Bayou*
  7. *My Lady* \_\_\_ (1916 silent film)
  10. TV series Burt Reynolds once starred in
  11. *You \_\_\_ Live Twice*
  12. Actor who appeared on a 2000 German stamp
  13. 1951 Broderick Crawford film (with *The*)
  14. *The Empire Strikes Back* planet
  16. *God Is My \_\_\_-Pilot*
  17. "Houston, \_\_\_" (4 words)
  19. *Demon* \_\_\_
  20. \_\_\_ Fong Chun of *Hawaii Five-O*
  21. *Shadrach* director
  24. Canadian film starring Jackie Burroughs (3 words)
  25. Filming locale
  27. \_\_\_ *Wednesday*
  28. She played Deputy Molly Solverson on *Fargo*
  31. Malden of *The Streets of San Francisco*
  33. Canadian actress Beatrice
  34. First film shown in a drive-in theatre (2 words)
  36. Hermie's best friend in *Summer of '42*
  37. Waxman or Pacino
  38. *Knight Rider* car
  40. He played Mozart in *Amadeus*
  42. Initials of the actor who played Frank the desk clerk on *ER*
  43. *King Kong* abductee
  44. *Robots* director
- DOWN**
2. Casting director who discovered Ronald Reagan and Kim Novak
  3. Gene Wilder's real last name
  4. Joan Fontaine film
  5. *How Stella Got Her \_\_\_ Back*
  6. Renee Zellweger's line in *Jerry Maguire* (5 words)
  8. *Creed* director
  9. 1989 skateboarding film (3 words)
  11. 2003 Bollywood film
  12. *To Wong* \_\_\_, *Thanks for Everything!* Julie Newmar
  14. Co-creator of *Trophy Wife*
  15. He plays Dr. Ethan Choi on *Chicago Med*.
  16. Name of the camp in *Friday the 13th* (2 words)
  18. Cincinnati call letters on a TV show
  22. \_\_\_ Rhonda Jones
  23. Initials of the Ghanaian actress who starred in the Nigerian comedy *One Night in Vegas*
  25. NBC weekend comedy show, for short
  26. Name of the high school in *Rebel Without a Cause*
  27. Woody's role in *Annie Hall*
  29. Who Zack made a porno with
  30. Name of the fashion magazine in *Confessions of a Shopaholic*
  32. Actor Reitz
  35. She played Fran Belding on *Ironsides*
  39. *How I Met Your Mother* protagonist
  40. Initials of one of the stars of *Ghostbusters*
  41. Television network that is a successor to The WB and UPN (with The)

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1996 MIDLAND 24' tandem pup, stiff pole, completely rebuilt, new paint and brakes, like new, \$18,500. Merv 306-276-7518, 306-767-2616, leave message, Arborfield, SK. DL #906768.

2015 AHV LODE-KING aluminum Super B hoppers, extra light pkg., round stainless fenders, current Safety, exc. 11Rx22.5 tires w/alum. wheels, exc. cond., no air lift or elec. tarps. Two sets available \$104,000/ea. OBO. 866-236-4028, Calgary

1997 LODE-KING TRI-AXLE, air-ride, fresh Safety, good cond., asking \$26,000. Call 204-662-4432, 204-522-6681, Sinclair, MB

**PRAIRIE SANDBLASTING AND PAINTING.** Trailer overhauls and repairs, alum. slopes and trailer repairs, tarps, insurance claims, and trailer sales. Epoxy paint. Agriculture and commercial. Satisfaction guaranteed. 306-744-7930, Saltcoats, SK.

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**NEW 2015 WILSON Super B,** also tridem 2 hopper; Two new CASTLETONS: one 44' tridem and 36' tandem; 2013 Wilson Super B; 2012 Doepker Super Bs; 2005 Lode-King Super B; 2002 alum. open end Lode-King Super B; 2010 Castleton tandem 36' w/Michel's augers; 2004 Doepker tandem; New Michel's hopper augers and chute openers. Ron Brown Imp. 306-493-9393 www.rbsk.ca DL#905231

**NEW NEVILLE:** 38', air ride, 78" sides, 11x24.5 tires, side chutes, ladders, roll tarp, 2 hoppers, \$36,999. 306-563-8765.

2010 DOEPKER TANDEM with electric remote chute opener, white, 36', exc. cond. \$37,500. 403-485-6175, 403-485-0262, Vulcan, AB.

**NEW 2015 WILSON Super B,** also tridem 2 hopper; Two new CASTLETONS: one 44' tridem and 36' tandem; 2013 Wilson Super B; 2012 Doepker Super Bs; 2005 Lode-King Super B; 2002 alum. open end Lode-King Super B; 2010 Castleton tandem 36' w/Michel's augers; 2004 Doepker tandem; New Michel's hopper augers and chute openers. Ron Brown Imp. 306-493-9393 www.rbsk.ca DL#905231

**NEW NEVILLE:** 38', air ride, 78" sides, 11x24.5 tires, side chutes, ladders, roll tarp, 2 hoppers, \$36,999. 306-563-8765.

2010 DOEPKER TANDEM with electric remote chute opener, white, 36', exc. cond. \$37,500. 403-485-6175, 403-485-0262, Vulcan, AB.

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2013 WILSON GROUND load 53', alum., excellent condition, extra lights and extra add-ons, asking \$60,000 OBO. 306-322-7672, Rose Valley, SK.

**ALUM. STOCK TRAILERS-** 24', \$22,995. Most sizes in stock. Call 306-824-4909, Spiritwood, SK. www.greattrailers.ca

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2016 SUBARU WRX SPORT, 6 spd. man. trans, AWD, 2.0 Turbo charged. \$35,333 or \$255. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina SK. DL#917632.

2016 SUBARU WRX SPORT, 6 spd. man. trans, AWD, 2.0 Turbo charged. \$35,333 or \$255. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina SK. DL#917632.

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**2014 DODGE RAM 3500 SLT, 4x4**, diesel dually, 6.7L, \$53,995. Greenlight Truck & Auto. Phone: 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

**2014 DODGE RAM 1500 SPORT**, fully loaded, low kms, leather, NAV, \$39,995. or \$299. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL#917632.

**2013 GMC SIERRA 3500 HD, SLT**, diesel dually, 6.6L, \$54,995. Greenlight Truck & Auto. Call: 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

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**2013 CHEV SILVERADO 1500, GFX**, 20" wheels, liner, \$43,995. Greenlight Truck & Auto. Call: 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

**2011 GMC SIERRA 2500 HD 4 WD**, 6.6L dsl., 4 dr., 222,000 kms, dark gray, black int., \$24,000. 204-362-1065, Morden, MB.

**2- 2015 DODGE RAM 3500 SLT**, diesel, dually, \$55,995. Greenlight Truck & Auto. Call: 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

**1992 DODGE RAM 250**, diesel, 2WD, 220,000 kms., premium cond., 5th wheel hitch, no rust, 90% rubber, very clean interior, \$9000. 306-562-8866, Canora, SK.

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**2006 RAM 5.9**, Cummins 3500, Quad Cab SLT, \$13,999. Call 1-800-667-4414. [www.thoens.com](http://www.thoens.com) DL #909250.

**2011 RAM 1500 Laramie**, 4x4, hemi, tire wheel package, \$31,995. Greenlight Truck & Auto. Phone: 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

**2014 GMC SIERRA 1500**, all terrain, 5.3L, loaded, PST paid, \$38,995. Greenlight Truck & Auto, 306-934-1455, Saskatoon, SK. [www.GreenlightAuto.ca](http://www.GreenlightAuto.ca) DL #311430

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**GRAIN TRUCKS 1675**



**1998 IHC 8100**, 300 HP, 10 spd. manual, 300 miles, air ride, AC, new CIM BH&T, fresh safety, \$52,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK

**2007 MACK CXN613**, MACK 385HP, 10 spd. Eaton Ultrashtift; 2007 IH 8600, CAT 435HP 10 spd. All trucks c/w 20' grain box, air controls, windows, SK. Certified. 306-567-7262, Davidson, SK. DL #312974 [www.hodginshtc.com](http://www.hodginshtc.com)

**2007 MACK w/3 pedal Eaton AutoShifts; 2007 IHC 9200**, 18 spd. All trucks with new grain boxes and fresh SK. safeties. 306-270-6399. [www.78truxsales.com](http://www.78truxsales.com)

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**ALLISON AUTOMATICS**: 2004 IHC 4400, C&C, DT466, 6 speed, \$39,900. **K&L Equipment**, 306-795-7779, Ituna, SK. Email: [ladimer@sasktel.net](mailto:ladimer@sasktel.net) DL #910885.

**GRAIN TRUCKS 1675**

**2007 IH 9400**, with Cummins 435 HP 10 spd. AutoShift, 20' box, alum. wheels and tanks, exc. cond., certified, \$67,500; **2006 Peterbilt**, 475 HP Detroit 18 spd., A/T/C, alum. wheels, tanks, chrome bumper, like new tires, new paint, 20' BH&T, exc. shape, show truck, \$69,500; **2007 Mack CH613**, 460 Mack eng., 13 spd., AutoShift, alum. wheels, new tires, A/T/C, new paint, 20' BH&T, very nice, \$67,500; **2007 Mack**, 460 Mack eng., 12 spd. auto. trans., 3-way lockers, alum. wheels, good tires, 20' BH&T, rear controls, pintle plate, \$69,500; **1990 Kenworth T600**, 450 HP Detroit, 10 spd., alum. front wheels, good tires, pulls good w/1996 36' Canade 2 hopper grain trailer- nice shape, \$35,000; **2000 Freightliner Century Classic M11** Cummins, 375 HP Super 10 speed, exc. tires, 20' BH&T, alum. wheels, \$47,500; **2007 IH 9400**, 430 HP Cummins, new 20' BH&T, new paint, good tires, alum. wheels and tanks, 10 spd. AutoShift, \$67,500. Trades accepted. Call Merv at 306-276-7518, 306-767-2616, Arborfield, SK. DL#906768

**ATTENTION FARMERS**: End of year clear-out prices on tandem, automatics and standards. Call Yellowhead Sales, 306-783-2899, Yorkton, SK.

**AUTOSHIFT TRUCKS AVAILABLE**: Boxed tandems and tractor units. Contact David 306-887-2094, 306-864-7055, Kinistino, SK. DL #327784. [www.davidstrucks.com](http://www.davidstrucks.com)



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**CIM TRUCK BODIES**, grain, silage, gravel, decks, service and installation. For factory direct pricing and options, call Humboldt, SK., 306-682-2505 or [www.cim-ltd.ca](http://www.cim-ltd.ca)

**MECHANICS SPECIAL**: 2006 IHC 4400, DT 466 tandem, Allison auto, C&C, low mileage, runs and drives, but needs engine work, will take a 20' box. Was \$44,900, now reduced \$29,900. **K&L Equipment** 306-795-7779, Ituna, SK. DL #910885. Email: [ladimer@sasktel.net](mailto:ladimer@sasktel.net)

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**2007 INTERNATIONAL 9200I** Eagle gravel truck, 242,000 kms, 410 HP Cummins, 18 spd., air ride, 16" Renn box, roll tarp, fresh SK. inspection, \$54,800. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**2008 MACK**, 261,000 kms, 10 spd., 2007 Western Star, 1998 IH. All trucks c/w 16' gravel boxes. Call Yellowhead Sales 306-783-2899, Yorkton, SK.

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**SEMI TRUCKS 1677**



**1995 IHC 9200 Daycab**, M11 Cummins, 9 spd., near new rubber, 450,000 kms, 7000 hrs., fresh SK. safety, yg, \$19,900. Cam-Don Motors Ltd. 306-237-4212, Perdue, SK

**2005 FREIGHTLINER 60 Series** Detroit, 18 spd., 46 rears, 24.5 Michelin tires, moose bumper, 814,000 kms., asking \$39,000. 306-677-7303, Hodgeville, SK.

**2005 PETERBILT 378**, Cummins 500HP 18 spd; 2006 Peterbilt 379, Cummins 475HP 13 spd; 2009 IH Prostar, Cummins 500HP 18 spd; 2003 Freightliner Columbia, Detroit 500HP (rebuilt), 18 spd., 46 rears, lockers; 2004 Kenworth W900L, Cat 475HP 13 spd. Daycabs: 2005 IH 9400, Cat 475HP 18 spd, wet kit; 2005 Kenworth T800, Cat 475HP 18 spd, 46 rears, 4-way locks. 306-567-7262, Davidson, SK. [www.hodginshtc.com](http://www.hodginshtc.com) DL#312974

**2007 FREIGHTLINER DETROIT 525**, 60 Series, 18 spd., 4-way locks, CL120 Columbia auto. greasing system, low kms, recent AB. safety, \$33,500. 587-284-3378, Calgary AB.

**2008 DOEPKER SUPER B** grain trailers, 24.5 tires, good condition, \$45,000 OBO. Phone 306-530-6561, Holdfast, SK.

**2009 INT. PROSTAR TA** tractor, 340,000 kms, daycab, 485 HP, Cummins, 8 spd, air ride, wet kit, alum. budds, \$44,900. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**2012 INTERNATIONAL PROSTAR** truck tractor, 295,152 kms, MaxForce 430 HP engine, Eaton 13 spd., 40,000 lb. rears, 12,000 lb. front, fresh SK safety, \$53,900. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

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**SEMI TRUCKS 1677**



**2008 T800 KENWORTH**, 550 Cat, 18 spd., trans, 12,000 front, 46,000 rear, 700,000 kms, exc. cond. 306-921-7583, Melfort, SK

**DISMANTLING FOR PARTS 2007 IHC 9900I** w/cab damage, 475 ISX rebuilt eng. EGR delete, 18 spd. Sexsmith Used Farm Parts, 1-800-340-1192, Sexsmith, AB.

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**T800 KENWORTHS**, 2010, 2008, 2007, heavy specs; 2013 IH 5900I, 42" bunk, 46 diff, 4-way lock, 18 spd., 390,000 kms, warranty; 2009 Western Star, rebuilt Detroit engine, 18 spd., 46's, 4-way lock; 2006 378 Pete, Cat 18 spd., 46 diff, 4-way locks w/roo-bar bumper; 2007 IH 9200 daycab, ISX 435, 13 spd; 2007 IH 9400, 475, 18 spd., 46 diff; 2004 IH 8600, S/A, daycab, Cat C10, 10 spd; 1996 T800 KW, 475 Cat, 13 spd. Ron Brown Imp. Delisle, 306-493-9393 [www.rbtrucks.ca](http://www.rbtrucks.ca) DL #905231

**SPECIALIZED TRUCKS 1680**

**2003 FORD F450 4x4**, auto, V10, 99,300 kms, 225/70R19.5XDS2 Michelin tires, vg condition, 7x7.5 flatdeck w/15" spd, c/w Ferrari Model 535C crane, \$14,000. 204-362-1275, Plum Coulee, MB.



**2014 KENWORTH T370**, auto trans, Paccar engine, with a sewer equipment company America Truck Jet 800-HPR Series 2, 1500 gallons water supply, unit excellent condition, new MB. safety, \$129,000. Can deliver 204-743-2324, Cypress River, MB.

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**1993 IH 8100 tandem**, 466 dsl., 10 spd. trans., 12,000 front axles, 40,000 rears, exc. cond., w/18" flatdeck, exc. tires, 433,000 kms. Good water or delivery truck. \$21,500. Call Merv 306-276-7518, 306-767-2616, Arborfield, SK DL #906768

**20' HOIST**, 2007 C7500, 7.8L 6 cyl., 6 spd., 12/23 axles, hyd. brakes, 280K, SK. truck, vg, \$28,000. 306-563-8765, Canora

**2004 CHEV CUTAWAY** Cube van, auto., AC, 14" ins box, trailer brakes, 64,633 kms, \$14,900. 780-446-7822, Sedgewick, AB.

**FUEL TRUCK**: 1996 T450 Kenworth, 3600 gal. fuel capacity, dual pumps and meters, coded. Call 306-493-9393, Delisle, SK.

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**1998 INTERNATIONAL Model 4700**, auto, manual brakes, 20' deck, 11- 22.5 tires, DT 466E engine. 306-242-6159, Warman, SK.

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**2006 STERLING TRI-DRIVE** spreader truck w/2007 roto-mix spreader box, 444,340 kms, 4536 hrs, floater tires. Auto. powered by Cat eng. Well maintained, looked after. Used to spread manure and wood chips, \$90,000. Jeff 303-371-6362, Brant, AB.

**LOOK AT THIS!** an excellent find, only 76,000 orig. kms. 1982 L8000 Ford, 3208 Cat dsl, 5&2 trans, 14' flatdeck, new paint, exc. tires. All around exc. truck. Make a great water or delivery truck, etc. \$11,500. Call Merv 306-276-7518, 306-767-2616, Arborfield, SK DL #906768

**WANTED: TANDEM MANURE TRUCKS**, w/o manure spreaders. Must be in good condition. 780-842-2909 or 780-842-7812. Wainwright, AB.

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**2010 FORD EXPLORER XLT**, V8, auto., only 85,000 kms, like new rubber, exc. Gov't, very good, \$17,900. Cam-Don Motors, 306-237-4212, Perdue, SK.

**2010 HONDA PILOT**, fully loaded, leather, heated seats, low kms, PST paid, \$23,674 or \$219. Bi/Wkly. 306-525-6700, Auto Gallery Subaru, Regina SK. DL#917632.

**2011 MERCEDES BENZ GLK**, AWD, heated seats, low kms, fully loaded, \$31,995 or \$247. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL #917632.

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**2012 DODGE JOURNEY**, AWD, loaded, including: leather, back-up camera, 7 pass., 110,000 kms, excellent cond. with balance of factory warranty, \$15,500. Call 306-358-2120, Maclean, SK.

**2012 FORD ESCAPE**, fully loaded, leather, heated seats, low kms, PST paid, \$19,478. or \$147. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL#917632.

**2012 GMC ACADIA**, 7 passenger, AWD, loaded, PST paid, must see, \$29,733 or \$227. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL#917632.

**2012 HONDA CRV**, AWD, loaded, low kms, local trade, immaculate condition, \$23,995 or \$189. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL#917632.

**2014 BMW X1**, fully loaded, x-drive, leather, NAV, low kms, \$41,995. or \$233. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina, SK. DL#917632.

**2014 JEEP CHEROKEE Laredo**, 4x4, fully loaded, low kms, heated steer, \$34,333, or \$239. Bi/Wkly. Call 306-525-6700, Auto Gallery Subaru, Regina SK. DL#917632.

**2015 DODGE DURANGO Limited** AWD, Stk #R6414, \$50,988 or \$283 bi-weekly. 1-800-667-4755 [www.dodgecityauto.com](http://www.dodgecityauto.com) DL #911673.

**2015 JEEP COMPASS Sport 4x4**, 0% for 36 mos. Stk #3013, \$24,998 or \$139 bi-weekly. 1-800-667-4755, [www.dodgecityauto.com](http://www.dodgecityauto.com) DL #911673.

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**2015 JEEP RENEGADE North 4x4**, heated seats, loaded, 9 spd. trans, Stk #R3509, \$32,925 or \$183/month. 1-800-667-4755 or [www.dodgecityauto.com](http://www.dodgecityauto.com) DL #911673.

**2015 SUBARU FORESTER**. Best small SUV. \$2000 cash purchase discount MSRP from \$25,995 Call 1-877-373-2662 or [www.subaruofsaskatoon.ca](http://www.subaruofsaskatoon.ca) DL #914077.

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**VARIOUS 1685**

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2011 TAKEUCHI TB1140 excavator, dozer, 32" trenching, 52" clean up bucket, thumb, aux. hyd., 3300 hrs., good shape, \$95,000. Call 306-594-7981, Norway, SK.

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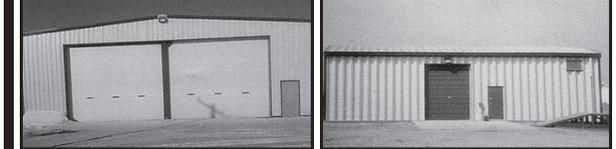
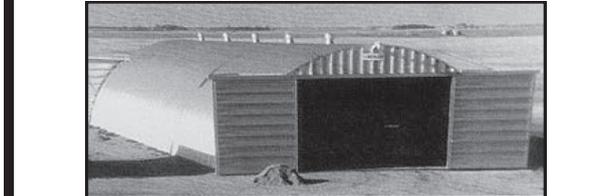
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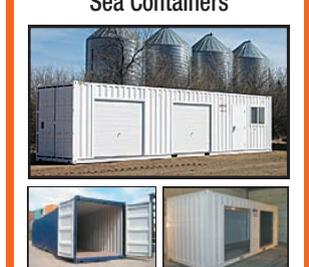
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**AUGERS: NEW and USED:** Wheatheart, Westfield, Westeel, Sakundiak augers; Auger SP kits; Batco conveyors; Wheatheart post pounders. Good prices, leasing available. Call 1-866-746-2666.

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**YEAR-END SPECIALS:** Large inventory of new. Used: 2008 Sakundiak 12x85; Brandt 10x60; Convey-All Dealer. Leasing available. Dale at Mainway Farm Equip., 306-567-3285 or 306-567-7299, Davidson, SK. www.mainwayfarmequipment.ca

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**GRAIN BAGS/ EQUIPMENT 4116**

**RICHIGER GRAINBAG UNLOADER**, 10', excellent condition, \$18,000. 306-334-2216, Balcarres, SK.

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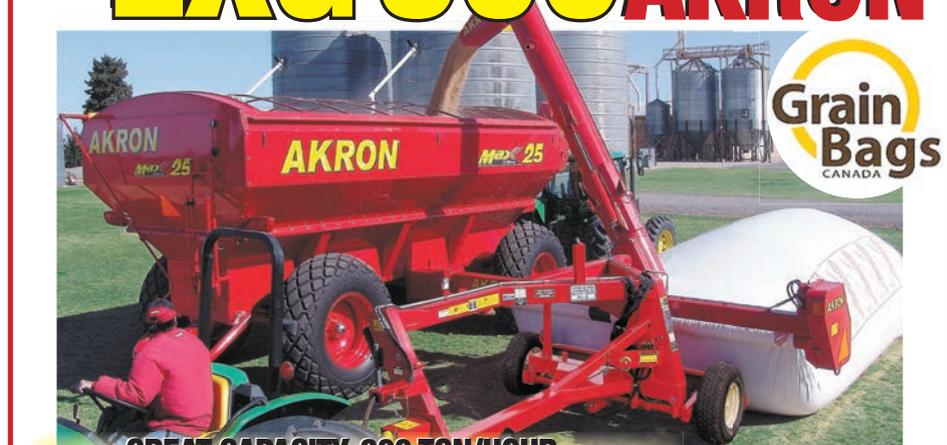
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**GRAIN CARTS 4118**

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2014 EASY TRAIL 710 cart, tarp, PTO, 30.5/32 tires, \$25,000. A.E. Chicoine Farm Equipment Ltd. 306-449-2255, Storthoaks

2010 J&M 875 grain cart, 30.5x32 tires, scale, tarp, 18" auger, JD green, 1000 PTO, \$32,000 OBO. Call/text 780-645-9630, 780-201-9796, Bonnyville, AB.

**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**

AIR AND SCREEN Machine: Delta 142.2. Sells with no screens, \$5000 OBO. 403-578-3810, 403-578-7712, Coronation, AB. Email coroseed@xplornet.com or web: www.seed.ab.ca/plants/coronation

**DUAL STAGE ROTARY SCREENERS** and Kwik Kleen 5-7 tube. Call 204-857-8403, Portage la Prairie, MB. or visit online: www.zettlerfarmequipment.com

WANTED: SMALL GRAIN deck for Kipp Kelly model 200 gravity table. Sandercok Seed Farm, 306-334-2958, Belcarres, SK.

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

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GT TOX-O-WIK PROPANE grain dryer, \$6500 OBO. Call 306-795-2734 or 306-795-7644, Ituna, SK.

FARM FAN AB180A grain dryer, auto batch, propane, good working condition, \$7500. 204-325-8019, 204-362-1091, Winkler, MB

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BRANDT 4000, \$8000; #4500, \$8500; Rem 2500 HD, \$9500. 1-866-938-8537. www.zettlerfarmequipment.com

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NEW, NEVER USED 2011 BUHLER 6640, \$17,900. Phone toll free 1-877-862-2387, 1-877-862-2413, Nipawin, SK.

TIM'S REPAIR has REM grain vacs. Used 3700's, VRX, and a Brandt 5200EX. 306-784-2407, 306-772-1004, Herbert, SK

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2015 JD 569 round baler, 3069 bales, JD warranty until July 2016, large tires, twine and netwrap, rear light kit, MegaWide PU, bale push bar, hydraulic PU lift, \$53,000. 306-648-7540, Gravelbourg, SK.

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**BALE SPEARS**, high quality imported from Italy, 27" and 49", free shipping, excellent pricing. Call now toll free 1-866-443-7444, Stonewall, MB.

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

2012 NH H8060 w/36" Honeybee header, 509 hours, air spring suspension, full cab w/AC, \$105,000. Phone: 306-682-9920, Humboldt, SK. Online: www.farmworld.ca

2010 JD A400, 36" Honeybee header, dbl. knife drive, single reel, AutoTrac ready, can c/w 1800 monitor with SF1 activation, 3000 receiver, ATU steering wheel, \$110,000 OBO. Call/text 780-645-9630, 780-201-9796, Bonnyville, AB.

2007 MASSEY FERGUSSON 9430 w/30' centre delivery header, 1108 hours, U11 P/U reel, \$59,000. Call at: 306-864-3667, Kinistino, SK. www.farmworld.ca

2012 MacDON M155 w30' D50 header, 236 hours, single reel fore and aft, \$123,600. 306-864-3667, Kinistino, SK., or www.farmworld.ca

HESSTON 8110S, 25', PU reel, 900 hrs., exc. cond., \$25,000 OBO. 403-634-3500, Lethbridge, AB.

MF 200 DIESEL swather w/30' head and U11 PU reel and 22' head w/Batt reel, \$10,500. 204-856-6119, McGregor, MB.

2011 JD D450 40', 540 hrs., dbl knife dr., belly mtd. swath roller, Command Center, \$75,000 OBO. 306-252-2227, Kenaston SK

2013 JD 450 swather, 30' header, 371 hrs. on swather, 471 hours on motor, \$105,000 OBO. 780-888-1258, Loughheed, AB.

2013 CIH WD1203 30', 600 hrs., factory transport, EZ-Steer, 10' poly swath roller, \$75,000 OBO. 306-252-2227, Kenaston SK

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2013 CIH WD1203 30', 600 hrs., factory transport, EZ-Steer, 10' poly swath roller, \$75,000 OBO. 306-252-2227, Kenaston SK

**SWATHERS 4145**

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

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

2012 NH H8060 w/36" Honeybee header, 509 hours, air spring suspension, full cab w/AC, \$105,000. Phone: 306-682-9920, Humboldt, SK. Online: www.farmworld.ca

2010 JD A400, 36" Honeybee header, dbl. knife drive, single reel, AutoTrac ready, can c/w 1800 monitor with SF1 activation, 3000 receiver, ATU steering wheel, \$110,000 OBO. Call/text 780-645-9630, 780-201-9796, Bonnyville, AB.

2007 MASSEY FERGUSSON 9430 w/30' centre delivery header, 1108 hours, U11 P/U reel, \$59,000. Call at: 306-864-3667, Kinistino, SK. www.farmworld.ca

2012 MacDON M155 w30' D50 header, 236 hours, single reel fore and aft, \$123,600. 306-864-3667, Kinistino, SK., or www.farmworld.ca

HESSTON 8110S, 25', PU reel, 900 hrs., exc. cond., \$25,000 OBO. 403-634-3500, Lethbridge, AB.

MF 200 DIESEL swather w/30' head and U11 PU reel and 22' head w/Batt reel, \$10,500. 204-856-6119, McGregor, MB.

2011 JD D450 40', 540 hrs., dbl knife dr., belly mtd. swath roller, Command Center, \$75,000 OBO. 306-252-2227, Kenaston SK

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2007 MASSEY FERGUSSON 9430

**COMBINE HEADERS 4199**

**FLEX PLATFORMS w/AIR REEL/AIR BAR.** 2010 CIH 2020 air reel, 35', single point, \$18,500 US or \$29,500 Cdn. Also fits NH combines; 2002 CIH 1020 air reel 25', \$15,800 US or \$23,900 Cdn; 1997 CIH 1020 air reel, 30' \$12,900 US or \$18,900 Cdn; 2003 NH 74C 30', single point, clipped PU teeth, \$11,500 US or \$17,500 Cdn; 2000 AgCo Gleaner 800 air reel 30', \$14,500 US or \$23,900 Cdn; 2004 JD 635 air bar 35', single point, \$16,500 US or \$22,500 Cdn; 1998 JD 930 air reel, 30', \$12,500 US or \$18,900 Cdn. Delivery included free of charge to AB, SK, MB if purchased by Dec. 31, 2015. \*All above platforms are field ready condition and most are reconditioned with new PU teeth, new sickle, new poly skids, totally gone thru shop with field ready guarantee. Reimer Farm Equipment Ltd., please call Gary at 204-326-7000, Steinbach, MB.

**CASE/IH FLEX PLATFORMS:** Models 1020 25' and 30' w/wo air reel; 2020 30' and 35', 2020 30' with air reel; 2011 3020 35'. Can install new AWS air bar for additional \$11,500. Deliver in SK, MB, AB. Gary 204-326-7000, Reimer Farm Equip., Hwy. #12 N., www.reimerfarmequipment.com Steinbach, MB.

**2004 NH 94C #HW3359A,** 39', integral axle and hitch, single knife drive, UUI split reel, \$29,900. 306-682-9920, Humboldt, SK., or www.farmworld.ca

**2012 MD FD70 40',** flex draper, pea auger, transport, HHC, new knife and guards, w/warranty, \$69,800. 1-800-667-4515. www.combineworld.com

**MACDON 40' FD70 header,** good cond., with AFX, or JD adapter, \$44,900. Call 204-324-6298, Altona, MB.

**2000 JD 14' PICKUP header,** 914P w/Victory Super B pickup and single point hook-up, used only 500 acres, stored inside, \$12,000 U.S. OBO. Home: 406-487-5043, cell: 406-783-7332 Scobey, MT.

**AGCO MF CAT flex platforms:** In stock Models 500 Gleaner 25' and 30'; Model 8000 30' and 8200 35' MF; Cat FD30 flex; FD40 flex. Reconditioned, ready to go. Delivery in SK, MB, AB. Gary: 204-326-7000, Reimer Farm Equip., Hwy. #12 N., Steinbach, MB. www.reimerfarmequipment.com

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

**MISC. ACCESSORIES 4205**

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**DEUTZ TRACTOR SALVAGE:** Used parts for Deutz and Agco. Uncle Abe's Tractor, 519-338-5769, fax 338-3963, Harriston ON

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**MEDICINE HAT TRACTOR Salvage Inc.** Specializing in new, used, and rebuilt agricultural and construction parts. Buying ag and construction equipment for dismantling. Call today 1-877-527-7278, www.mhtractor.ca Medicine Hat, AB.

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**ROCKPICKERS 4223**

**WANTED: ROTARY rockpicker** for skid-steer. Call 306-377-4754, 306-831-7952, Herschel, SK.

**NEW 2014 SCHULTE 2500 rockpicker,** #HS3429, large 2.5 cu. yard hopper, \$29,600. Call: 306-682-9920, Humboldt, SK, or view online at: www.farmworld.ca

**SNOWBLOWERS/SNOWPLOWS 4226**

**FARM KING SNOWBLOWERS Y960,** rear mount 96", dbl auger, \$4795. Flaman Saskatoon. 1-888-435-2626 www.flaman.com

**8" SCHULTE 9600 snowblower,** 540 PTO, 3 PTH, asking \$3750 OBO. Call Grant 306-746-7336, Semans, SK.

**2012 SNOWBLAST Model #10800A.** 3 PTH snow blower. vg cond., all options. 12'(+ ) wide enough to cover the duals on your tractor, green/yellow, \$2500 OBO. Pierson, MB. 701-389-1042, or 204-649-2276.

**SCHULTE SNOWBLOWERS- your heavy duty blower** for the tough jobs in 3 PTH and front mount options. In stock at Flaman 1-888-435-2626. www.flaman.com

**2011 FRONT MOUNT SCHULTE snow blower,** Model SDX960, 9", like new, used only one season, \$12,650. 306-423-5476, 306-960-2274, Domremy, SK.

**2- BOLT-ON 3 POINT HITCHES** from Case tractor. Grant 306-746-7336, Semans, SK.

**SILAGE EQUIPMENT 4229**

**2008 JD 3975 c/w PU header,** kernel processor, 40" vert ext. Just through shop in excellent shape w/new knives and shear bar! \$26,400. Call Jordan 403-627-9300, Pincher Creek, AB.

**SPRAYING EQUIPMENT 4238**

**WANTED: USED OVERSEER computer sprayer,** any condition. Mostly need the monitor. 403-533-2240, Rockyford, AB.

**2000 FLEXI-COIL 67XL PT sprayer,** 1250 gallon tank, 100' boom, hyd. pump. Call 306-873-8060, Prairie River, SK.

**2006 NEW HOLLAND SF115,** 90' suspended boom, Raven AutoBoom, double nozzle, autorate, 1250 gal. tank, hydraulic pump, \$27,000. 403-379-2423, Buffalo, AB.

**SP SPRAYERS 4241**

**2007 SPRA-COUPÉ 4655,** 80', 1080 hrs., JD AutoTrac, sectional control, \$64,800. 1-800-667-4515. www.combineworld.com

**2008 JD 4830,** 100' 1000 gal. SS tank, Raven AutoBoom, Swathmaster, GreenStar, AutoTrac, 420/80R46, 1471 hrs, \$185,000 OBO 306-834-7204 Kerrobert SK

**2011 APACHE AS720,** loaded, 102' booms, 412 hrs., asking \$139,000. Phone 306-595-4877, Norquay, SK.

**2010 CASE/IH 3330,** AFS Pro 600 display, 1000 gal. SS, AccuBoom, AutoHeight, fence row nozzles, 380/90R46, 1080 hrs, always shedded, very good condition. Call 204-734-8202, Swan River, MB.

**SP SPRAYERS 4241**



**HEAVY DUTY WHEEL DOLLY.** Change your sprayer tires in less than an hour! Over 100 units sold last 12 months. Perfect tool for safely and quickly moving, or changing large wheels/tires, \$1,399. 403-892-3303, Carmangay, AB.

**2011 JD 4730,** low hrs., 100' booms, fold GPS, JD boom heights, sectional control, 2630 3000 receiver, 2 sets of tires, always shedded, \$165,000 306-327-4756, 306-327-8803 cell, Kelvington, SK.

**2014 ROGATOR RG 1100, 100', Viper Pro,** Raven smart tracks, AccuBoom, Auto-Boom, remote sect. control, boom clean-out, fence rows, 2 sets tires, crop dividers, 1610 hrs \$265,000. 403-994-7754 Olds AB.

**2014 NEW HOLLAND SP240R, 240HP,** 100 gal. poly tank, tier 3 eng., Smart Trax AutoSteer, \$229,000. Call: 306-864-3667, Kinistino, SK. or www.farmworld.ca

**2012 Rogator RG 1300, 120', Sharp shooter,** Viper Pro, Raven smart tracks, Accu-Boom, AutoBoom, remote section control, boom clean-out, fence rows, chem. educator, pressure washer, Helix strainer, weather station, 2 sets tires, 1760 hrs., \$280,000. 403-994-7754, Olds, AB.

**2014 JD 4730, 800 gal. tank, 100' booms,** 5 centre BoomTrac, 2 sets of tires, 2630 monitors w/3000 receiver, SF1, JD link, PowerGard, extended warranty, low hrs., \$275,000 OBO. Call/text 780-645-9630, 780-201-9796, Bonnyville, AB.

**DID YOU HAVE CANOLA DAMAGE** from Frontline Tank contamination in 2014/2015? Contact Back-Track Investigations 1-866-882-4779 for assistance and compensation. backtrackcanada.com



**2009 1284 AG-CHEM,** 1000 gal. tank, 110' booms, 2860 hrs., \$94,500; 2012 Case 4420, 100' booms, 1600 hrs., \$158,000. USD. 406-466-5356, Choteau, Montana. View: www.fertilizerequipment.net

**2008 MILLER CONDOR A40 100', 1728** hrs, 1000 gallon, sectional control, Trimble GPS and EZ-Steer, \$99,900. 1-800-667-4515. www.combineworld.com

**SPRAYING VARIOUS 4244**

**BANDIT 3210 LIQUID fertilizer system!** Introducing the all new and fully engineered TBH caddy. Call 1-855-765-9937 or visit: www.polywest.ca

**TRIDEKON CROP SAVER,** crop dividers. Reduce trampling losses by 80% to 90%. Call: Great West Agro, 306-398-8000.

**FITTINGS AND VALVES** for your liquid handling needs, all offering the ultimate in sealing power and corrosion resistance. Call 1-855-765-9937 or www.polywest.ca

**TILLAGE/SEEDING**

**AIR DRILLS 4250**

**2008 BG 6450 air tank #HS34820,** 3 tank metering, double shoot, 591 Monitor, always shedded, \$83,500. 306-864-3667, Kinistino, SK. or www.farmworld.ca

**MOON HEAVY HAUL** pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

**2003 BOURGAULT 5710, 54', 9.8" spacing,** metal packers, MRB's set up for liquid, liquid kit included, 1 season on new MRB discs, 1" Bourgault tips, \$32,000. Call 306-247-2099, 306-843-7337, Scott, SK.

**2009 FLEXI-COIL 5000 HD 40' w/3350** TBT CART, 10" spacing, 5" rubber packer, variable rate, double shoot, cart shedded. Call 403-556-7257, Olds, AB.

**WANTED: BOURGAULT 5710 air drills and** cart, mid 2000's, SS or DS, 54' to 64', 3 to 5.5" rubber packers, minimum 400 bu. Call 204-546-2299, Grand View, MB.

**FLEXI-COIL 800 AIRSEEDER,** 33', 9" spacing, w/1610 tank, double shoot, self-openers, new seedmetre boxes and unload auger recently, very good machine, shedded. Phone cel. 403-318-4706, Eckville, AB.

**2011 MORRIS CONTOUR C1 drill;** 2002 Flexi-Coil 3450 TBH cart, 51', 12" spacing, single shoot drill, \$110,000. 306-922-2525 Prince Albert, SK. www.farmworld.ca

**2005 FLEXI-COIL 4350 TBH AIR CART,** DS, variable rate, good shape, asking \$40,000 OBO. 780-385-5064, Killam, AB.

**1998 MORRIS MAXIM drill and 7180** trailing tank #B21999C, 7.5" spacing, 3.5" steel packers, \$25,000. Call: 306-864-3667 Kinistino, SK, or www.farmworld.ca

**2013 MORRIS 51', C2, 12" space,** SS air, paired row openers, c/w 8370XL TBT cart, low acres, vg, \$249,000. Warranty. CamDon Motors Ltd, 306-237-4212, Perdue, SK

**2001 51' FLEXI-COIL 5000, 9" space,** DS, 3" rubber, 3450 TBH carts, double fan, 10" auger, variable rate, new bottom manifold, 4 new meter rollers, \$35,000 OBO. Can separate. 306-861-4592, Fillmore, SK.

**DON'T LEAVE MONEY** on the table- create the perfect seed bed. Find out more at: www.vvmfg.com or call 403-528-3350, Dunmore, AB.

**2008 SEED HAWK 40', 10" sp. quick** pint, dual castors, c/w 400 bu. cart, dry fert. only 12,000 acres, entire unit always shedded, \$129,000. 306-595-4877, Norquay SK

**72' OF BOURGAULT 3.5" steel** packers in gangs, done 3000 acres. Call 204-648-7085, Grandview, MB.

**AIR DRILLS 4250**

**2005 CONSERVA PAK 5112, 56' air drill,** Platinum ILS openers, 4400 air cart, \$115,000 OBO. Call/text 780-645-9630, 780-201-9796, Bonnyville, AB.

**2008 JD 1910, 430 bu., TBH, 8 run,** variable rate, double shoot, \$49,000; 1998 JD 1900 3 comp, 430 bu., 8 run, \$24,800. 1-800-667-4515. www.combineworld.com

**2013 NH P2050 with P1060,** double shoot, side banding, 430 bu. air cart, exc. cond., \$142,000 OBO. 306-297-7400, Shaunavon.

**1994 MORRIS 34' air drill, 50' Morris** 750 Max cult., drill 180 bu., cultivator 2420 Valmar, \$10,000 each OBO. 306-848-0088, Weyburn, SK. john.jackie@yourlink.ca

**36' JD 730 double disc air drill w/1900** TBT cart, \$29,000, or 1900 cart only, \$20,000. Also, JD 787 TBT cart, \$8000. 204-856-6119, McGregor, MB.

**1999 CONCORD air drill, 40', 12" space,** 5 plex, disc levelers, 2300 tank, many new parts. Offers. 306-862-8858, Codette, SK.

**SLEEPERS AND DAYCABS.** New and used. Huge inventory across Western Canada at www.Maximinc.com or call Maxim Truck & Trailer, 1-888-986-2946.

**FLEXI-COIL: 5000 57', 9" space,** \$18,900; 6000, 30', 7.5" spacing, \$12,900; 1330 air cart, \$9900; 1110, \$4900. Bourgault packer wheels, \$100/ft. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

**DID YOU HAVE CANOLA DAMAGE** from Frontline Tank contamination in 2014/2015? Contact Back-Track Investigations 1-866-882-4779 for assistance and compensation. backtrackcanada.com

**2012 SEED HAWK Series 45, 50-10** w/500 bu. TBH tank, quick adjust depth control, dual casters, new seed knives, liq. Alpine kit, var. rate w/Viper monitor and Raven GPS, dual fans, shedded. Dave at: 306-783-7584, 306-621-1155 Yorkton, SK.

**1993 FLEXI-COIL 5000 39' air drill, 2320** air tank, 9" spacing, John Blue meter and anhydrous kit, Atom Jet sideband openers w/NH3, fine and coarse rollers, cameras in tanks, low profile hopper, all hoses replaced within last 2 years, \$21,000 OBO. 306-658-4240, 306-843-7549, Wilkie, SK.

**2004 CASE ADX 2230 air cart,** var. rate, air seeder hopper, great shape, always shedded. Also, looking for Case or F/NH 430 bu. air cart w/var. rate in good cond. Phone: 306-460-7609, Kindersley, SK.

**2007 BOURGAULT 5725 47', 10" spacing,** Series II w/double shoot, optimal mid-row banders, Raven NH3, exc. cond., field ready with warranty, \$54,900. 1-800-667-4515. www.combineworld.com

**1993 BG 3225 air tank #PB2965D,** 2 tank metering, 225 bu. TBH, new 820 Monitor, \$9,700. Call: 306-922-2525, Prince Albert, SK, or www.farmworld.ca

**2006 EZZE-ON 7550 air drill, 10" spacing,** 5" rubber capped packers, 4" carbide tip openers with 3115 tank (2005), asking \$49,500. 306-452-7004, Parkman, SK.

**HIGH QUALITY and value** for your money. Carbide drill points and openers. Find out more at: www.vvmfg.com or 403-528-3350, Dunmore, AB.

**2001 39' FLEXI-COIL 5000, 12" spacing,** 2340 TBT tank, var. seed rate, var. flow anhydrous. 306-747-3635, Shellbrook, SK.

**2009 BG 3310 65' drill #B22180A,** mid-row banders, easily converted to double shoot, \$139,000. Phone: 306-864-3667, Kinistino, SK. or www.farmworld.ca

**2001 BOURGAULT 4710 40' disc drill, 10" spacing,** mid-row banders, 3" steel packers, liquid fert., \$15,800. 1-800-667-4515. www.combineworld.com

**2008 IH 12 SEED Hawk, dual shoot, 2012** Case 7H 3430, 430 bushel tank, \$160,000. can separate. 306-641-7759, Theodore, SK

**2011 BG 66' air drill #B22480A, 12" spacing,** mid-row shanks, double shoot, \$143,000. Call: 306-864-3667, Kinistino, SK., or view online at: www.farmworld.ca

**1997 39' MORRIS Maxim air drill, 10" spacing,** Atom Jet boot with Morris 180 cart, \$23,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

**AIR DRILLS 4250**

**COMBINE WORLD NOW carries ATOM** JET openers! We want your old ones on trade! www.combineworld.com Call 1-800-667-4515.

**2010 65' BOURGAULT 3310 paralink, 12"** spacing, mid row shank banding, DS, rear hitch, \$148,000. A.E. Chicoine Farm Equipment Ltd. 306-4

**SEEDING VARIOUS 4259**

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JD 7200 8RN vacuum planter, needs reconditioned, w/o fertilizer, \$7,900; JD 7200 8 RN vacuum planter, liquid fertilizer, PT, field ready, \$16,900; JD 7200 folding 12 RN vacuum planter, w/o fertilizer, reconditioned, \$18,900. Call me for any of your planter needs as more planters are arriving and my supplier has all sizes, models and makes available. Delivery available. Reimer Farm Equipment Ltd., call Gary at 204-326-7000, Steinbach, MB.

**HIGH QUALITY** and value for your money. Carbide drill points and openers. Find out more at: [www.vwmfg.com](http://www.vwmfg.com) or 403-528-3350, Dunmore, AB.

**TILLAGE EQUIPMENT 4262**

**2014 MORRIS FIELD PRO 70'** harrow. New 9.16" tines, #HR3447, \$36,500. Call: 306-682-9920, Humboldt, SK. or view us online at: [www.farmworld.ca](http://www.farmworld.ca)

**2012 LEMKEN RUBIN Gigant 105/800 26'** tillage disc, very good condition, \$64,800. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**2014 BRAND NEW heavy tandem offset disc 12' 6"**, dual wheel kit, 1/4" thick 26" diameter notched blades front and back, 1-1/2" gang shaft, \$9,000 disc type, tandem \$9,000. 306-338-8078, Quill lake, SK.

**KELLO-BILT SERIES 176 10'** tandem disc, 24" notched blades, clean unit, some new bearings, faded but solid, \$7,980. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**2015 CASE/IH 600, 60'** cultivator, 12" spacing, 4-bar harrows, NH3 hitch, 600 lb. tips. 306-231-8060, Englefeld, SK.

**KELLO-BILT 8'** to 20' offset discs w/24" to 36" notched blades; Kello-Bilt 24' to 38" tandem wing discs w/26" and 28" notched blades and oil bath bearings. Red Deer, AB. [www.kelloblugs.com](http://www.kelloblugs.com) Call: 1-888-500-2646.

**1999 FLEXI-COIL 585 70'** heavy harrow teeth- 50% good usable harrow, \$19,900. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**WANTED: FLEXI-COIL SYSTEM 75 62'** coil packers. 701-897-0099, Roseglen, North Dakota.

**2013 7450 LANDOLL vertical tillage #N22357.** New! 39" wide, 22" disc, 7" blade spacing, \$105,000. 306-864-3667, Kinistino, SK., or [www.farmworld.ca](http://www.farmworld.ca)

**2015 DEMONSTRATOR: KIRCHNER 7'** shank subsoiler, 34" shanks. Fall clearance pricing. Cam-Don Motors, 306-237-4212, Perdue, SK.

**2014 GREAT PLAINS 3500 TM vertical tillage #PS3147.** New, 36' 3 section Cat V hitch, \$101,000. Phone: 306-922-2525, Prince Albert, SK., or [www.farmworld.ca](http://www.farmworld.ca)

**2013 HORSCH ANDERSON JOKER 37RT, 37'** Joker, in excellent condition. Purchased new in 2013. Mechanical depth adjustment, \$79,500. 306-981-5489, Prince Albert, SK.

**TILLAGE/SEEDING VARIOUS 4265**

**DON'T LEAVE MONEY** on the table- create the perfect seed bed. Find out more at: [www.vwmfg.com](http://www.vwmfg.com) or call 403-528-3350, Dunmore, AB.

**HIGH QUALITY** and value for your money. Carbide drill points and openers. Find out more at: [www.vwmfg.com](http://www.vwmfg.com) or 403-528-3350, Dunmore, AB.

**2013 CASE/IH EARLY RISER** planter, 15/30" rows, air pressure packers, sectional control, liquid kit, centre fill seed bins, Yetter row cleaners, used very little, only seeded soybeans, \$110,000. 306-421-9909, Estevan, SK.

**TECHNOTILL 2015 62"** on TBH Case 600 cultivator (Flexi-Coil), 12" spacing, Flexi-Coil air pack, Intelligent blockage monitor, superior setup, ready to go, can hook to Bourgault or Flexi-Coil cart, like new cond. 306-421-9909, Estevan, SK.

**DUTCH OPENERS AND carbide tips** available for all models of drills. Early booking and volume discounts available. Call Dean for details. 306-536-9532, 306-957-4408, Odessa Rockpicker Sales, Odessa, SK.

**TRACTORS**

**ALLIS/DEUTZ 4277**

DEUTZ ALLIS 7110, 4040 hrs., 110 HP, dual hyd. and PTO, cab, air, 18.4x38, \$16,000. 204-525-4521, Minitonas, MB [www.waltersequipment.com](http://www.waltersequipment.com)

**WANTED, TOP DOLLAR** paid, any cond: D21; D17 w/ big round fenders; 4W220; 220 and 210. 701-240-5737, Minot, ND.

**ALLIS/CHALMERS Model #6800 w/FEL, FWA, 3PTH, \$14,000 OBO.** 306-236-8023, Goodsoil, SK.

**1987 DX160 DEUTZ, c/w** vg running eng. cab, 20.8x38 duals, excellent sheet metal, very good condition. Goods Used Tractor Parts, 1-877-564-8734.

**WHITE 4280**

1370 WHITE TRACTOR Fiat, 65 HP FWA, 3 PTH, White FEL, grapple, 9' blade, \$8500. Call 204-546-2299, Grand View, MB.

**CASE/IH 4286**

2004 STX 500, PTO, HID lites, 5 hyds, high cap. hyds, luxury cab, Michelin 800 duals-75%, AutoSteer, diff. locks, 5900 hrs., \$150,000. 403-647-7391 Pincher Creek AB

**1991 IH 9280 375 HP new 24.5x32 duals,** powershift, Cummins 855, 4 hyds, 6434 hrs., \$64,800. 1-800-667-4515. [www.combineworld.com](http://www.combineworld.com)

**DTE SYSTEMS CHIPTUNING #1,** will fit 600 quad or TJ New Holland, \$800. Call David 306-463-4255, Kindersley, SK.

**1987 IH 9150, 4 WD, 280 HP 520/85R38** Firestone radials, 80%, very good, 8000 hours, nice solid tractor, \$39,800. 1-800-667-4515 [www.combineworld.com](http://www.combineworld.com)

**2011 CASE 435, 1200 hrs., 710 metrics** and GPS, 4 hyds., always shedded, exc. cond, \$179,000. 306-948-7223, Biggar, SK

**CASE/IH 4286**



2015 CASE/IH PUMA 150, 10 hours, 150 HP, MFWD, 18F/6R powershift, LHR., 520/85/R38 rear tires, 420/85/R28 front tires, diff. lock, 3 PTH, PTO, 3 hyd., CAHR, frt fenders, like new cond., \$137,500. Can deliver. 204-743-2324, Cypress River, MB

**LIZARD CREEK REPAIR and Tractor.** We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

**WANTED, TOP DOLLAR** paid on IH tractors: 1026, 1456, 826, 1206, 1256, 756. Call: 701-240-5737, Minot, ND.

**STEIGER 4289**

1985 STEIGER PANTHER CP-1400, 4250 hrs., 12 spd., PS, 800 duals 80%, \$75,000 OBO. 403-633-1950, Rosemary, AB.

**STEIGER TRACTOR PARTS.** New and used, from radiator to drawpin, 1969 to 1999. Give us a call 1-800-982-1769 or [www.bigtractorparts.com](http://www.bigtractorparts.com)

**CATERPILLAR 4292**

**2002 CAT CHALLENGER 95E** tractor, 3820 hrs, very good cond. 306-882-3184, 806-831-7714, Rosetown, SK.

**JOHN DEERE 4295**

1986 JD 4250, 13,500 hours, w/JD 149 loader, rebuilt, very good condition, \$19,000 OBO. 403-585-8643, Indus, AB. [Dgosling@shaw.ca](mailto:Dgosling@shaw.ca)



**2014 JD 6210R, w/H380 IVT, 50KM, 432 hrs.,** Laforge front hitch and front PTO, TLS, HD front brakes, AutoTrac, 540/540E/1000 PTO, 650/85R38 Michelins, hyd. trailer brake, radar, H380 loader w/grapples. Many options. As new. Comprehensive warranty till Apr/17. \$238,000. AgriQuip Ontario, phone 519-616-1296, 1-888-388-1925. Located near Stratford, ON. We offer low cost delivery into the western provinces.

**JD 7810 MFWD, E-Range, 3 PTH, mint** condition, also 7710 w/IVT trans. Call 780-990-8412, Edmonton, AB.

**WANTED, ANY CONDITION:** 6030; late model 3020, or 4020; 4620; 4520; 4320 and 4000. 701-240-5737, Minot, ND.

**JD 8260R, 380x54 rubber, front duals,** PTO, ILS, powershift, warranty till July 2016, 1630 hrs, loaded, \$200,000 OBO. 403-634-3500, Lethbridge, AB.

**2012 JOHN DEERE 6190R, 4 WD, 4500 hrs.,** H380 self-leveling loader with grapple, very good cond., \$145,000 OBO. 306-764-4944, 306-961-2672, Prince Albert, SK. [d\\_l\\_byers@msn.com](mailto:d_l_byers@msn.com)

**2011 JD 9400, 4 hyds., powershift, new** tires- 95%, new central pin, very clean, \$90,000. 306-861-4592, Fillmore, SK.

**WANTED: 5020 JD w/FEL and grapple** fork, in good shape. 306-734-2970, 306-734-7335, Chamberlain, SK.

**G.S. TRACTOR SALVAGE, JD tractors** only. Call 306-497-3535, Blaine Lake, SK.

**1996 JOHN DEERE 8770, 4 WD, 6056 hrs.,** 300 HP, AutoSteer, 520x42 radial tires, vg condition, \$72,000 OBO. 306-848-0088, Weyburn, SK. [john\\_jackie@youlink.ca](mailto:john_jackie@youlink.ca)

**WANTED: 74 STEALTH 3"** complete spreader tip for JD 1830. Call 306-536-5475, Regina, SK.

**JD 4760 TRACTOR, MFWD, 4950 hrs.,** powershift, 3 PTH, shedded, 1 owner. Call 403-330-1966, Coaldale, AB.

**7400 JD MFWD, 3 PTH, c/w 740 loader,** all new tires, premium condition. 403-585-1910, Rockyford, AB.

**STEVE'S TRACTOR REBUILDER** looking for JD tractors to rebuild, Series 20s, 30s, 40s or 50s, or for parts. Will pay top dollar. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

**2007 JD 7220 MFWD, 4351 hrs., 16 spd.** Power quad trans, 3 hyds, cruise, cold start pkg, 3 PTH, LHR, c/w JD 741 QA self-leveling FEL w/grapple, 3 function joy stick, w/wo Trimble AutoSteer, \$96,500. 306-243-2080, 306-867-7028, MacCrorie

**2012 JD 9510RT, 36"** tracks at 85%, 18 spd., powershift, 2700 hrs., HID lights, 5 hydraulic remotes, with warranty, asking \$279,000. 204-324-6298, Altona, MB.

**1992 JOHN DEERE 4455, MFWD, 9200 hrs.,** 3 PTH, 3 remotes, 741 loader, like new, \$50,000. 306-621-7580, Bredendbury, SK.

**WANTED**

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**1990 JD 4755, MFWD, rebuilt powershift** trans, triple hyds., 180 HP good rubber, work ready. For pricing call Medicine Hat, AB, 1-877-527-7278, 403-548-1205. [www.mhtractor.ca](http://www.mhtractor.ca)

**JOHN DEERE 4295**

2009 JD 9530, 1920 hrs., 800 duals, 78 gal/min. hyd., powershift, looks like new, \$235,000. 306-633-7305, Cudworth, SK.

JD 8850, 4 hyd. outlets, exc. cond., vg tires 20.8x42. 306-861-4592, Fillmore, SK.

**1997 8100, 2WD, 4315 hrs,** new rear bias tires, 3 hyds., powershift, 160 HP, 1000 PTO, vg, \$69,900. Call 1-877-862-2387, 1-877-862-2413, [www.agriquip.ca](http://www.agriquip.ca)

**MASSEY FERGUSON 4301**

1135 MF 2WD, 6400 hrs., recent hyd. work, very well taken care of, PTO, new tires, starter and alternator, w/or w/out Allied 795 FEL (like new) (\$5000), \$13,500 for both. 306-562-8866, Canora, SK.

**MF 1155, running, good shape.** Contact 204-773-0305, Russell, MB.

**1966 MF 150, 2 WD. Rare!** Fully restored 4 cyl. gas engine, Row Crop PS. Many extras. Everything works, looks new! exc. cond., \$7995. 306-682-1871, Humboldt, SK.

**NEW HOLLAND 4304**

**2005 NEW HOLLAND TV145, 4500 hrs.,** 1200 hrs. on rebuilt motor, rear wheel weights, fenders, 3 PTH, 540/1000 PTO, FEL w/grapple, dirt bucket, bale spear, forks, exc. cond., \$60,000. 306-530-6864, Sedley, SK.

**FORD 4307**

**FORD 276 BI-DIRECTIONAL, 20 hours** on new engine, rebuilt pump, new tires, nice condition, \$28,000. Call 204-625-5225, 204-625-2702, Elphinstone, MB.

**VERSATILE 4310**

**875 VERSATILE, complete with dozer,** very well maintained, asking \$26,500 OBO. Call 403-823-1894, Drumheller, AB.

**NEW 2015 VERSATILE 2375, 710's.** Own for \$10,265 semi-annually. Call KMK Sales Ltd. 306-682-0738, Humboldt, SK.

**VARIOUS TRACTORS 4319**

**WANTED: WHITE, or UNIVERSAL: 60 HP** w/FWA. Also, wanted older CASE w/FWA. 306-395-2668, 306-681-7610, Chaplin, SK.



**NEW LS TRACTOR, 4 WD, 97 HP** Iveco dsl., self-leveling loader, 3500 lb. lift, CAHR, 3 spd. PTO, 3 PTH, power shuttle with hi/lo, 5 yr. warranty, \$66,000. The Tractor Company 306-239-2262, Osler, SK.

**2013 LS TRACTOR, 4WD, 97 HP w/loader,** 800 hours. Call 204-447-3066 after 6, Ste Rose Du Lac, MB.

**GRATTON COULEE AGRI PARTS LTD.** Your #1 place to purchase late model combine and tractor parts. Used, new and rebuilt. [www.gcparts.com](http://www.gcparts.com) Toll free 888-327-6767.

**LOADERS/DOZERS 4322**

**LEON 2530 12' QA dozer blade, no mounts,** fits tractors w/200 HP or less, exc. cond., \$13,500 OBO. 403-533-2240 Rockyford AB

**2009 DEGELMAN 6900 14' blade** for mounting on Case STX 275/280/325/330 or 335 4 WD tractor, hyd. angle, silage ext., \$20,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

**1996 LEON 225A 1000, 14' wide, 42" high,** 4-way dozer from Case 9330, good cond. Call 306-947-4644, Langham, SK.

**DEGELMAN 12' late model 5700 blade,** mounts for JD 7720, \$13,500; Degelman 16' blade, 6-Way, mounts for Steiger Panther KM325. 780-679-7795, Camrose, AB.

**MISCELLANEOUS 4325**

**2- BOLT-ON 3 POINT HITCHES** from Case tractor. Grant 306-746-7336, Semans, SK.

**CHECK OUT OUR** inventory of quality used highway tractors. For more details call 204-685-2222 or view information at [www.titantrucksales.com](http://www.titantrucksales.com)

**OLDER LINE OF equipment** for sale. CIH 1660 combine; CI 9600 PTO combine; Deutz 9150 tractor; Deutz 7120 tractor; MacDon 9000 SP swather; Ezee-On 29' air seeder; Leon 27' cultivator with anhydrous kit, plus other tillage equipment. 306-621-3868, 306-963-2731, Imperial, SK. [vahill41@gmail.com](mailto:vahill41@gmail.com)

**HIGH QUALITY** and value for your money. Carbide drill points and openers. Find out more at: [www.vwmfg.com](http://www.vwmfg.com) or 403-528-3350, Dunmore, AB.

**HEAVY DUTY PARTS** on special at [www.Maximinc.com/parts](http://www.Maximinc.com/parts) or call Maxim Truck & Trailer, 1-888-986-2946.

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1989 VERS. 856 tractor, 8500 hrs., 280 HP 20.8x42 radials, good cond., \$36,000; 1993 Ford 846, 6500 hrs., 230 HP 18.4x38 radials, good cond., \$35,000; 1993 Delmar 5500 medium harrows 70', autofold, near new tires, very good condition, \$16,500. 204-638-1068, Sifton, MB. [alz@mts.net](mailto:alz@mts.net)

**SUNFLOWER HARVEST SYSTEMS.** Call for literature. 1-800-735-5848. Lucke Mfg., [www.luckemanufacturing.com](http://www.luckemanufacturing.com)

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Crystal City, MB  
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**SAKUNDIAK 10x20 swing auger:** Two 8' IHC 620 drills; Case/IH 730 PT swather, new canvass; Degelman mounted harrows, 4- 6', 1- 4-1/2', new teeth. All equip. field ready. Best offer. 306-595-2180, Pelly, SK.

**CASE/IH PRESS DRILLS and 7721 PT** combine. Willing to take trade. Flaxcombe, SK. 306-463-3480, 306-460-9027.

**QUIT FARMING! 1997 9682, 20.8x42** tires 90%, 5903 hrs., \$75,000. New MF 4610, FWA, 100 HP c/w FEL and pallet fork, shuttle shift, \$65,000. 1998 5710, 54', dual shoot, 4300 tank, dual fans, new boots with 2" carbide spreaders, \$55,000. 3- 560 IHC tractors, clean condition, \$2000 ea. NH TR98, 1996, 2641 sep. hrs., Rake-Up PU, \$30,000. All equip. previously shedded. 306-481-4740, Battleford, SK.

**ODESSA ROCKPICKER SALES:** New Degelman equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

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25% more power/torque & Save Fuel!  
Buy before year end & **save 10%**  
Easily install yourself.  
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**WANTED 4328**

**WANTED MF 36 & 360 Discers**  
All sizes, any condition, also parts discers, Premium Price paid for 12ft with 19" blades.  
SK Farm Boys - Honest Prompt Service:  
Call Anytime  
**306.946.9669 or 306.946.7923**

**WANTED**

**WANTED: MF #36 DISCERS.** Will pay top dollar and pick from anywhere. Phone Mike 306-723-4875, Cupar, SK.

**WANTED, TOP DOLLAR** paid on IH tractors: 1026, 1456, 826, 1206, 1256, 756. Call: 701-240-5737, Minot, ND.

**WANTED: MASSEY discers, Model 36,** Sask., Alberta or Manitoba. Top dollar. 306-625-3369, 306-750-0642, Pontoix, SK.

**WANTED USED, LOW hours,** self propelled forage harvester. Contact Gord at: 780-831-6872, Sexsmith, AB.

**WANTED: USED, BURNT, old or ugly**

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## 2016 INTERNATIONAL 4400 6X4



Tandem Axle Grain Truck, N9 engine, Allison (Auto) transmission (6 speed), Air brakes, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup. Winnipeg, MB Stock #9654-16

**\$152,700**

## 2007 PETERBILT 386



Tandem Axle Grain Truck, Cummins ISX engine (450 HP), Eaton Fuller D/O transmission (13 speed), Air brakes, 1147000 km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, fresh cab paint. Regina, SK Stock #8216-07A

**\$79,900**

## 2016 INTERNATIONAL 4400 6X4



Tandem Axle Grain Truck, N9 engine, Allison (Auto) transmission (6 speed), Air brakes, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, 20 ft. Cancade grain body/tarp/ electric controls. Prince Albert, SK Stock #6761-16

**\$149,700**

## 2009 FREIGHTLINER CASCADIA



Tandem Axle Grain Truck, Detroit Diesel engine (475 HP), Eaton Fuller D/O transmission (13 speed), Air brakes, 838000 km, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, A/C. Regina, SK Stock #7038-09A

**\$74,500**

## 2016 INTERNATIONAL 4400 6X4



Tandem Axle Grain Truck, N9 engine, Allison (Auto) transmission (6 speed), Air brakes, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup, 20 ft. Cancade grain body/tarp/electric controls. Brandon, MB Stock #9698-16

**\$148,300**

## 2008 KENWORTH T300



Tandem Axle Grain Truck, Paccar PX8 engine, Eaton Fuller transmission (10 speed), Air brakes, 700000 km, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 3-Way rear lockup, A/C, getting 20 foot grain box. Brandon, MB Stock #5148-08A

**\$65,750**

## 2016 INTERNATIONAL 4400 6X4



Tandem Axle Grain Truck, N9 engine, Allison (Auto) transmission (6 speed), Air brakes, 14000 lbs front axle capacity, 40000 lbs rear axle capacity, 4-Way rear lockup. Brandon, MB Stock #7084-16

**\$146,400**

## 2006 INTERNATIONAL 9400I 6X4



Tandem Axle Grain Truck, Cummins ISX engine, Eaton Fuller Ultra Shift transmission (10 speed), ABS brakes, 630311 mi, 12000 lbs front axle capacity, 40000 lbs rear axle capacity, Diff Lock rear lockup, A/C, Getting a 19 foot Cancade Box. Regina, SK Stock #0605-06B

**\$65,750**

### 2016 TIMPTE SUPER B GRAIN

Grain, Super B, Air suspension, Tridem axle, Aluminum rims, 24" king pin, Tarp: Shurco Shur-loc Black, Hoppers: Split tub - 24" clearance Black w.Int Access 5 steps, Width: 102in, Length: 29ft. Winnipeg, MB. Stock #GB152675

**CALL**



### 2015 TIMPTE GRAIN

Grain, Air suspension, Tandem axle, Outside Aluminum/Inside Steel rims, 20 king pin, Tarp: Rollover Black, Hoppers: Ag Hoppers Black w.Interior Access steps, Width: 102in, Length: 36ft. Brandon, MB Stock #FB149226

**CALL**



### 2010 DOEPKER GRAIN

Grain, Hopper, Air suspension, Tridem axle, Steel rims, Tarp: Rollover Black, Hoppers: 3 in the Middle Black, Width: 102in, Length: 45ft. Winnipeg, MB. Stock #A1025931U

**\$42,900**



### 2012 TIMPTE SUPER B GRAIN

Grain, Super B, Air suspension, Tridem axle, Aluminum rims, 24" king pin, Tarp: Shurco Shur-loc Black, Hoppers: Split tub - 24" clearance Black, Width: 102in, Length: 29ft. Saskatoon, SK. Stock #V623563

**\$83,900**



# YEAR-END CLEARANCE!

## PRICES SLASHED ON THESE CASH DEALS!

### 2014 NEW HOLLAND SP.240R

#N22357



240HP, 1000 GAL POLY TANK, TIER 3 ENGINE, 5 SPD ALLISON AUTOMATIC, 41 MPH TOP SPEED, 100' BOOM, ACCUBOOM SEC CONTROL, ULTRAGLIDE BOOM HEIGHT, SMART TRAX AUTOSTEER.  
ALSO AVAILABLE: NEW HOLLAND SP.240F & SP.333F FRONT BOOM SPRAYERS!

**\$229,000 (K)**

### NEW 2014 SCHULTE 2500 ROCKPICKER

#HS3429



LARGE 2.5 CUBIC YARD(1.9 M³) HOPPER, LARGE 16.5L X 16.1 TIRES PROVIDE SUPERIOR FLOTATION

**\$20,600 (H)**

### 2013 NEW HOLLAND CR9090

#PN3305A



WITH 790CP PICK-UP, 945 HRS, 672 SEP HRS, 620/70/R42 DUALS, 750/65/R26 REARS, FULL ABRASIVE PKG, WIDE SPREAD REDEKOP CHOPPER, BIG TOP HOPPER EXTENSIONS, CROP SAVER ON HEADER, TWIN PITCH ROTORS

**\$347,200 (PA)**

### 2007 NEW HOLLAND CR9070

#HN2912B



WITH MACDON PW7 SWATHMASTER PICK UP, \*1770 HRS, 1403 SEP HRS, STRAW CHOPPER DELUXE, INTELLISTEER READY, Y&M MONITOR, MONITOR W/ GPS, 16' PICK UP, 900 TIRES

**\$128,500 (PA)**

### 2005 NEW HOLLAND CR970

#PN3202B



WITH 76C SWATHMASTER PICK-UP, 2156 HRS, 1590 SEP HRS, LIGHT BEACON, CAB DELUXE, Y&M MONITOR, 16' PICK UP, MAV CHOPPER, FRONT TIRES 900/65R32, REAR TIRES 600/65R28

**\$89,900 (PA)**

### 2013 MACDON M155

#W22645A



WITH 40' DRAPER HEADER, 442 HRS, ROTO SHEARS, HYDRAULIC SWATH-ROLLER, SPLIT PICK REEL FORE/AFT, GAUGE WHEELS WITH TRANSPORT.

**\$137,700 (PA)**

### 2012 MACDON M155

#W22651A



WITH 30' D50 HEADER, 236 HRS, SINGLE REEL FORE/AFT, 16.5L-16.1 TAIL WHEELS, 600-65R28 DRIVE WHEELS, HYD CENTRE LINK, GAUGE WHEELS, SLOW SPEED TRANSPORT

**\$123,600 (K)**

### 2012 NEW HOLLAND H8060

#HW3388A



WITH 36' HONEYBEE HEADER, 509 HRS, AIR SPRING SUSPENSION, FULL CAB W/AC, EZEE PILOT GUIDANCE, CAB DELUXE UPGRADE, DOUBLE KNIFE, SINGLE SWATH, SINGLE UII REEL, HYD FORE/AFT, GAUGE WHEEL, TRANSPORT PACKAGE

**\$105,000 (H)**

### 2007 MASSEY FERGUSON 9430

#W22408A



9430 WITH 30' CENTRE DELIVERY HEADER, 1108 HRS, UII P/U REEL, HYD TILT AND GAUGE WHEELS, 18.4R26 DRIVE TIRES, 12.5L-15 FORMED CASTORS

**\$59,000 (K)**

### 2014 MORRIS FIELD PRO 70' HARROW

#HR3447



NEW! 70' , 9.16" TINES

**\$36,500 (H)**

### 2014 GREAT PLAINS 3500 TM VERTICAL TILLAGE

#PS3147



NEW! 35' 3 SECTION CAT V HITCH OPTION TV/TM/TT, ROLL HWR/HEAVY REEL, 1500 LB TT CENTRE FRM WGT KIT

**\$101,000 (PA)**

### 2013 7450 LANDOLL VERTICAL TILLAGE

#N22357



NEW! 39' WIDE, 22" DISC DIAMETER, 7" BLADE SPACING, ONLY 200 ACRES ON DISCS, 10 DEG GANG ANGLE, HYD. TILT, ROLLING BASKETS

**\$105,000 (K)**

### 2005 CASE IH SCX100 DISCBINE

#PN3169B



16', 12,300 HRS, HYDRO SWING, RUBBER COND. ROLLS, 1000 PTO, 1 CROP DIVIDER, PLASTIC END SHIELDS

**\$12,300 (PA)**

### 2004 NEW HOLLAND 94C

#HW3359A



39', INTEGRAL AXLE & HITCH, SINGLE KNIFE DRIVE, UII SPLIT REEL, HYD REEL FORE/AFT, GAUGE WHEELS/TRANSPORT PKG, MECHANICAL HEADER TILT

**\$29,900 (H)**



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Program valid from:  
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TIER NAME	PACKAGE INCLUDES:	PRICE
Basic	Cleaning, Calibration Test Exterior Inspection and Leak Test	\$155.00
Valve and Seal (*Cost of seal kit and re-painting included in price. All other parts extra.)	Cleaning, Leak Test, Valve and Piston Inspection Calibration Test, Seal Kit Inspection (\$150)	\$395.00
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Stock# GL3568B  
5.3L 4X4 PST PAID LOADED 50KM

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Stock# GL3604A  
FULLY LOADED FULL SPORT 5.7L 4X4 PST PAID 130KM

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<del>ON SALE \$14,999</del> or only <b>\$139/bw</b>	<del>ON SALE \$8,999</del> or only <b>\$89/bw</b>	<del>ON SALE \$12,499</del> or only <b>\$125/bw</b>	<del>ON SALE \$8,999</del> or only <b>\$89/bw</b>	<del>ON SALE \$14,299</del> or only <b>\$136/bw</b>
<b>2013 AC SNO PRO 500</b> SNO CROSS INSPIRED CHASSIS AND SUSPENSION, 1.5 TRACK	<b>2013 AC XF 800 SNO PRO</b> 794 CC, LIQUID TWIN, FRESH TRADE, ONLY 1172 MILES	<b>2012 AC XF 800 SNO PRO</b> LOCAL TRADE, 794 CC, REVERSE, WARRANTY AVAILABLE	<b>2010 AC F8 LTD</b> LONG TRACK, ELECTRIC START, FRESH TRADE, 1750 MILES	<b>2010 CROSSFIRE 800 SP</b> ONLY 2,034 MILES, SNO PRO, GREAT FOR ALL CONDITIONS
<del>\$7,870</del> NOW ONLY <b>\$6,899</b>	<del>NOW ONLY \$10,999</del>	<del>\$9,290</del> NOW ONLY <b>\$7,999</b>	<del>\$7,990</del> NOW ONLY <b>\$6,799</b>	<del>\$8,150</del> NOW ONLY <b>\$6,999</b>



<b>2016 YAMAHA PHAZER X-TX</b> 4-STROKE 499 CC, 144 TRACK, ELECTRIC START, REVERSE	<b>2016 YAMAHA SR VIPER SE</b> , 141" TRACK, HYBRID SLED, GOOD FOR ALL CONDITIONS	<b>2016 YAMAHA PROFESSION-VK II</b> , EFI 4-STROKE GENESIS ENGINE, ELECTRIC START	<b>2016 YAMAHA SR VIPER L-TX</b> 4-STROKE 1049 CC, 137"x1.25" RIP-SAW TRACK, REVERSE	<b>2016 YAMAHA VIPER M-TX</b> 153" POWER CLAW TRACK, 1049 CC, REVERSE, ES
<del>ON SALE \$10,299</del> or only <b>\$102/bw</b>	<del>ON SALE \$14,999</del> or only <b>\$139/bw</b>	<del>ON SALE \$14,399</del> or only <b>\$137/bw</b>	<del>ON SALE \$14,299</del> or only <b>\$136/bw</b>	<del>ON SALE \$16,999</del> or only <b>\$159/bw</b>
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<b>2015 FORD F350 LARIAT</b>  Diesel, 4x4, fully loaded, heated and cooled seats, lift kit, over \$5,000 in upgrades, MUST SEE! <b>ON SALE NOW \$299 B/W</b>	<b>2015 FORD F150 LARIAT</b>  Fully Loaded, navi, dual panel moon roof, 4x4, eco-boost, tech package, beautiful truck <del>\$52,995</del> <b>ONLY \$46,838 OR \$287 B/W</b>	<b>2015 RAM 1500 LARAMIE</b>  ECO-DIESEL Eco-Diesel, 4x4, fully loaded, heated leather, command start, Mega Cab, mint condition <b>ON SALE TODAY \$259 B/W</b>	<b>2014 HYUNDAI SANTA FE XL</b>  AWD, loaded, 3rd row Seating, Bluetooth, Satellite Radio, heated power mirrors, fog lamps <b>ON SALE NOW \$229 B/W</b>	<b>2015 SUBARU FORESTER</b>  Full Time Symmetrical AWD, Touring Package, Loaded, Heated seats Low kms Pristine shape <del>\$33,971</del> <b>ONLY \$29,734 OR \$211 B/W</b>
<b>2014 NISSAN ROGUE SV</b>  Loaded, AWD, 7 Passenger Seating, tech package, power tailgate, Navigation, Push Button Start <del>\$32,995</del> <b>ONLY \$28,133 OR \$207 B/W</b>	<b>2013 CHRYSLER 200 LX</b>  Beautiful Compact Sedan, Loaded, Bluetooth, Alloy Wheels, Traction Control, Great Fuel Mileage <del>\$17,995</del> <b>ONLY \$14,442 OR \$99 B/W</b>	<b>2015 GMC SIERRA 3500</b>  4X4, Loaded, Tow Package, heated seats, touch screen, back up camera, Beautiful Truck <del>\$48,650</del> <b>ON SALE TODAY \$38,499 OR \$257 B/W</b>	<b>2014 KIA SORENTO LX</b>  Fully Loaded, AWD, Heated Leather Seats, Navi, 6 cylinder, Tow Package Great Shape <del>\$34,995</del> <b>ON SALE NOW \$29,212 OR \$217 B/W</b>	<b>2015 GMC SIERRA HD SLE</b>  PST PAID Gorgeous Truck, Fully Loaded, 4x4 Heated Leather seats, navi back up camera, low kms <del>\$48,495</del> <b>ONLY \$41,820 OR \$289 B/W</b>
<b>2014 KIA OPTIMA LX</b>  Loaded, Heated seats, Bluetooth, Steering Wheel Mounted Controls Pristine condition <del>\$23,995</del> <b>ONLY \$21,833 OR \$187 B/W</b>	<b>2012 TOYOTA HIGHLANDER</b>  AWD, 7 Passenger, tow package, Loaded, blue tooth, Heated seats, great shape <b>ON SALE NOW \$189 B/W</b>	<b>HYUNDAI TUSCON</b>  AWD, loaded, MP3 Capability, Alloy wheels, Low kms, heated front seats, fog lights, amazing condition! <b>ON SALE ONLY \$77 B/W</b>	<b>2011 CHEVY EQUINOX 2LT</b>  Fully Loaded, AWD, Heated Leather Seats, Bluetooth, PST Paid, Satellite Radio, Command start, MUST SEE! <del>\$20,995</del> <b>ON SALE NOW \$18,673 OR \$133 B/W</b>	<b>2014 SUBARU IMPREZA SPORT</b>  Full Time AWD, CVT transmission, Bluetooth Heated Seats Sunroof, Top Safety Pick <del>\$28,716</del> <b>ONLY \$23,783 OR \$188 B/W</b>
<b>2013 LAND ROVER SPORT HSE</b>  Beautiful SUV, AWD, Air ride Suspension, fully loaded, Side and rear view cameras. Supercharged 6Cylinder, MUST SEE! <b>ON SALE NOW!</b>	<b>FORD F350 LARIAT</b>  Diesel, 4x4, crew cab, fully loaded, heated leather, lift kit retractable running boards, mint shape, \$15,000+ in extras! <b>ON SALE NOW ONLY \$277 B/W</b>	<b>2011 MERCEDES GLK 350</b>  Fully Loaded, AWD, Bluetooth, back up camera, heated premium leather seats amazing condition! <b>ON SALE NOW ONLY \$237 B/W</b>	<b>2012 TOYOTA PRIUS V</b>  Hybrid, fully loaded, heated leather, tech package, back up camera, Bluetooth pristine shape <del>\$26,995</del> <b>ONLY \$23,333 OR \$199 B/W</b>	<b>2012 VW GOLF TDI</b>  Turbo Charged Diesel Engine, fully loaded, touch screen, navi, leather much more <b>ON SALE ONLY \$133 B/W</b>
<b>2014 GRAND CHEROKEE LAREDO</b>  4x4, touch screen, heated seats and steering wheel, proximity key with push button ignition <del>\$38,995</del> <b>ON SALE NOW \$34,672 OR \$259 B/W</b>	<b>2014 SUBARU FORESTER XT</b>  250HP turbo charged boxer engine, AWD, CVT transmission, heated seats, Bluetooth mint shape <del>\$36,171</del> <b>ON SALE TODAY \$32,387 OR \$233 B/W</b>	<b>2013 SUBARU OUTBACK TOURING</b>  TOP SAFETY PICK Full-time AWD, heated seats, Bluetooth, sunroof, alloy wheels beautiful condition <del>\$28,995</del> <b>ONLY \$24,837 OR \$188 B/W</b>	<b>2014 NISSAN SENTRA SR</b>  Loaded, Bluetooth, push button start, alloy wheels, mint condition, MUST SEE! <del>\$22,995</del> <b>ON SALE \$18,877 OR \$121 B/W</b>	<b>2014 CHEVY CRUZE</b>  Keyless entry, Bluetooth, heated power mirrors loaded, low kms, beautiful condition <b>ON SALE NOW ONLY \$89 B/W</b>

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**2016 RAM 1500 SPORT 4X4**

0% FOR UP TO 60 MONTHS

Stock #T7401  
• 8 speed Transmission  
• Loaded with Leather

\$46,472  
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-\$1,500 Loyalty Discount  
**\$43,972**

**\$245 Bi-Weekly**

**2016 RAM 2500 CREW CAB LARAMIE 4X4**

Stock #T9006  
• Leather  
• Remote Start

\$59,374  
-\$1,000 Holiday Cash  
-\$1,500 Loyalty Discount  
**\$56,874**

**\$315 Bi-Weekly**

**2015 DODGE DURANGO LIMITED AWD**

Stock #R6414  
• Leather  
• Black Top Edition

**\$283 Bi-Weekly** **\$50,988**

**2016 GRAND CARAVAN ANNIVERSARY EDITION**

Stock #R6662  
• DVD  
• Navigation • Backup Camera

NO CHARGE DVD

**\$171 Bi-Weekly** **\$30,672**

**2016 JEEP COMPASS SPORT 4X4**

Stock #3013  
• Awesome Capability

0% FOR UP TO 36 MONTHS

**\$139 Bi-Weekly** **\$24,988**

**2016 JEEP RENEGADE NORTH 4X4**

Stock #R3509  
• Heated Seats  
• Loaded  
• 9 Speed Transmission

NEW BEST-IN-CLASS 4X4 CAPABILITY

**\$183 Bi-Weekly** **\$32,925**

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Stock #R9704 • City or Delivery • Extremely Capable

Was \$32,465  
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**\$154 Bi-Weekly**

**2015 DODGE JOURNEY R/T AWD**

Stock #R6145  
• Heated Leather Seats • Navigation  
• DVD

0% FOR UP TO 48 MONTHS

**\$183 Bi-Weekly** **\$32,984**

**2016 JEEP CHEROKEE SPORT**

0% FOR UP TO 60 MONTHS

Stock #T4013  
• 9 speed Transmission

\$26,498  
-\$500 Holiday Cash  
**\$25,988**

**\$145 Bi-Weekly**

**2015 DODGE DART**

Stock #R1690  
• Great Economy

**\$94 Bi-Weekly** **\$16,890**

**2016 CHRYSLER 200 LX**

Stock #T1402  
• 9 speed Transmission

**\$128 Bi-Weekly** **\$22,995**

**2015 DODGE GRAND CARAVAN SXT**

Stock #R6669  
• Stow n' Go® • Rear heater  
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**TOP PICK** 2015 IMPREZA  
**BEST COMPACT CAR!**



**TOP PICK** 2015 LEGACY  
**BEST SEDAN!**



**TOP PICK** 2015 FORESTER  
**BEST SMALL SUV!**



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#### 2011 BOURGAULT 66' AIR DRILL

#B22480A



12" SPACING, MID-ROW SHANKS, DOUBLE SHOOT DRY, 3" TIPS ON SEED OPENER.

**\$143,000 (K)**

#### 2009 BOURGAULT 3310 65' DRILL

#B22180A



MID-ROW BANDERS CAN EASILY BE CONVERTED TO DOUBLE SHOOT DRY AIR KIT! ONLY 6000 ACRES ON 1" CARBIDE TIPS, 10" SPACING, ALWAYS SHEDDED

**\$139,000 (K)**

#### 2008 BOURGAULT 6450 AIR TANK

#HS3482D



3 TANK METERING, DOUBLE SHOOT, 591 MONITOR. ALWAYS SHEDDED!

**\$83,500**

#### 2011 MORRIS CONTOUR C1 DRILL & 2002 FLEXI-COIL 3450 TBH CART

#HR3513A



51', 12" SPACING, SINGLE SHOOT DRILL, MECHANICAL CART w/ DOUBLE SHOOT

**\$110,000**

#### 1993 BOURGAULT 3225 AIR TANK

#PB2965D



2 TANK METERING, 225 BUSHELS, TOW BEHIND, INCLUDES NEW 820 MONITOR!

**\$9,700 (PA)**

#### 1998 MORRIS MAXIM DRILL & 7180 TRAILING TANK

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7.5" SPACING, 3 1/2" STEEL PACKERS, CARBIDE TIP (ABOUT 3,000 ACRES), 8 RUN SINGLE SHOOT

**\$25,000 (K)**

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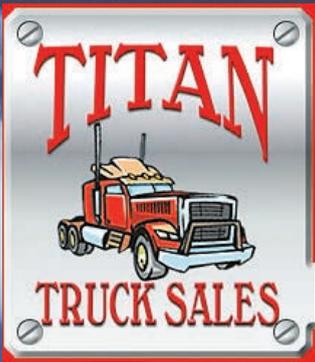
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**2013 IH PROSTAR**

500 HP Maxx 15, 18 sp, 14 front 40 rear, 22.5" alloy wheels, 4x4 diff. locks, 240" WB, 3:70 gears, 365,000 km.

**\$45,000**

**2013 KENWORTH T800**

500 HP Cummins ISX, 18 sp Eaton Ultrashift, 12 front super 40 rear, 4x4 diff. locks, 4:10 gears, 22.5" alloy wheels, 194" WB, 201,183 km.

**\$89,000**

**2010 KENWORTH T800**

525 HP Cummins ISX, 18 sp, 12,000 front 46,000 rear, 3:91 gears, 24.5" alloy wheels, 4x4 diff. locks, 220" WB, 1,050,188 km.

**\$59,000**

**2011 WESTERN STAR 4900FA**

500 HP Detroit DD15, 13 sp, 12/40, 244" WB, 22.5" alloy wheels, 3:70 gears, 3x4 diff. locks, 738,753 km.

**\$62,000**

**2010 WESTERN STAR 4900FA**

515 HP Detroit, 13 sp, 12/40, 22.5" alloy wheels, 244" WB, 373 gears, 3x4 diff. locks, 744,056 km.

**\$55,000**

**2012 KENWORTH T800**

500 HP Cummins ISX, 18 sp, 12 front super 40 rear, 410 gears, 4x4 diff. locks, 22.5" alloy wheels, 222" WB, 638,090 km.

**\$65,000**

**2013 IH PROSTAR**

500 HP Maxx 15, 18 sp, 12/46, 22.5 alloy wheels, 3:58 gears, 4x4 diff. locks, 228" WB, 399,869 km.

**\$45,000**

**2013 MACK CXU613**

445 HP MP8, 18 sp, 12/40, 4x4 diff. lock, 3:55 gears, 22.5" alloy wheels, 224" WB, 709,698 km.

**\$65,000**

**2006 PETERBILT 378**

475 HP Cummins ISX, 18 sp, 12 front, super 40 rear, 3x4 diff. locks, 3:91 gears, 22.5" alloy wheels, 204" WB, wet kit, 909,424 km.

**\$42,000**

**2011 FREIGHTLINER CASCADIA**

500 HP DD15, 18 sp, 12 front super 40 rear, 4:10 gears, 4x4 diff. locks, 196" WB, 22.5" alloy wheels, 412,744 km.

**\$65,000**

**2012 PETERBILT 388**

450 HP Cummins ISX, 18 sp, 12/40, 70" bunk, 3x4 diff. locks, 3:70 gears, 22.5" alloy wheels, 244" WB, 799,741 km.

**\$79,000**

**2007 VOLVO**

435 HP VE D12, 13 sp, 12/40, 22.5" alloy wheels, 4:11 gears, 192" WB, wet kit, 4x4 diff. locks, 1,252,636 km.

**\$29,000**

**2003 PETERBILT 378**

430 HP Cat C12, 13 sp, 4:11 gears, 12/40, 226" WB, 24.5" alloy wheels, 3x4 diff. locks, 1,145,316 km.

**\$25,000**

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**VW Carbide Spoon for Common Wedge Systems**

VW5FC - 3-1/4" wide, VW6FC - 2-1/4" wide; VW 5 & 6 are for 200 series; VW8FC - 3-1/4" wide, VW9FC - 2-1/4" wide; VW 8 & 9 are for 400 series. Full carbide front and sides - many times the wear of the original.

**VW7CC 2 Carbides 3/4" Wide**

Two carbides on front for considerably more wear. The VW7CC is shown on our very popular C shank opener. The VW14FB has a 3/4" opening where seed comes out. Also shown on the VW14FB is our full carbide paired row - available in 4" and 5". The VW21DSF paired row has 4 carbides on either side. The VW21DSF also fits the Flexi Stealth Opener. The VW7CC Drill Point also fits the Flexi Stealth Opener and Bourgault.

**VW10FC 4-1/4" Wide Full-Carbide**

Two carbides on front and two carbides on both sides. Shown here on our VW14FB C shank opener. Our VW10FC also fits Flexi Stealth and Bourgault. Liquid line easily attached to back of VW14FB and extended down.

**VW11FC 3-1/4" Wide Drill Point**

Full carbide - two on front and two on both sides. Very popular drill point. Shown on our VW14FB opener. Also fits Flexi Stealth and Bourgault. Liquid line easily attached to back of VW14FB.

**VW12FC 2-1/4" Wide Drill Point**

Full carbide front and sides. Also fits Flexi Stealth and Bourgault. Shown here on VW14FB opener. Liquid line easily - simply - attached to back of VW14FB. Single shoot drill point.

**VW13FC 1-1/2" Wide**

Our super slim spread point - full carbide front and sides. For producers who want a drill point in between 3/4" wide and 2-1/4" wide. Fits our own VW14FB opener. Also fits Flexi Stealth and Bourgault.

**VW18 HDS**  
Harmon double shoot seed boot. Carbides protect seed opening.

**VWHC1**  
Small Harmon point - large carbide.

**VWHC2**  
Large Harmon point - slides over adapter - bolt head and nut are recessed. Large carbide - long wear.

**Morris Double Shoot**

VW Morris triple shoot combo - shown on Morris opener. VW23C - main front point - has two carbides. VW24 side plates have carbide embedded and sold in pairs. VW25 is the full carbide deflector.

"We have used VW openers and drill points for more than 10 years. Very durable in our tough rocky soils. Minimal soil disturbance - perfect seed bed. We use the VW10FC 4 inch spread point on our 7 inch row space Flexi drills. Easy pulling - The VW full carbide drill points are the real easy pull drill points. Great company - great service along with best price. Highly recommended."

Joe Wipf - Field Boss - Hutterville Farming Co., Magrath, AB.



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**NEW 2015**

**2015 ESCAPE 4DR SE 4WD**

Stk. #T15575.  
 Deep Impact Blue, Charcoal Black Interior,  
 2.0L I4 GDI EcoBoost Engine,  
 6-Speed Auto.

**MSRP \$31,489**  
 Brentridge Price Adjustment (\$1,244)  
 Delivery Allowance (\$4,250)  
 Costco Allowance (\$1,000)

**\$24,995**



**NEW 2015**

**2015 EDGE SE AWD**

Stk. #T15725 Tuxedo Black Metallic,  
 Ebony Interior,  
 2.0L I4 EcoBoost Engine,  
 6-Speed Auto.

**MSRP \$35,489**  
 Brentridge Price Adjustment (\$944)  
 Delivery Allowance (\$1,000)  
 Costco Allowance (\$1,000)

**\$32,995**

**0** % up to 48 Months



**NEW 2015**

**2015 F150 SUPERCAB XLT**

Stk. #T15634.  
 Magnetic, Grey Cloth Interior,  
 2.7L EcoBoost Engine,  
 6-Speed Auto.

**MSRP \$44,559**  
 Brentridge Price Adjustment (\$3,854)  
 Delivery Allowance (\$4,750)  
 Costco Allowance (\$1,000)

**\$34,995**

**0** % up to 72 Months



**NEW 2015**

**2015 F150 4x4 SUPERCREW XLT**

Stk. #T15744  
 XLT Trim, 3.5L TiVCT FFV engine,  
 Blue Flame, Grey Cloth,  
 6 Speed Automatic Transmission

**MSRP \$44,549**  
 Brentridge Price Adjustment (\$3,804)  
 Delivery Allowance (\$3,750)  
 Costco Allowance (\$1,000)

**\$35,995**

**0** % up to 72 Months



**NEW 2015**

**2015 F150 PLATINUM**

Stk. #T15603  
 Tuxedo Black, Black Interior Ebony Leather,  
 3.5L EcoBoost V6, 6 Speed Auto-Trans,  
 Twin Panel Moonroof, Technology Package.

**MSRP \$74,349**  
 Brentridge Price Adjustment (\$7,104)  
 Delivery Allowance (\$3,750)  
 Costco Allowance (\$1,000)

**\$62,495**

**0** % up to 72 Months



**NEW 2016**

**2016 F150 4x4 SUPERCREW XLT**

Stk. #T16391  
 XLT Trim, 5.0L FFV engine,  
 Shadow Black, Black Cloth,  
 6 Speed Automatic Transmission

**MSRP \$56,699**  
 Brentridge Price Adjustment (\$3,954)  
 Delivery Allowance (\$3,750)  
 Costco Allowance (\$1,000)

**\$47,995**



**NEW 2015**

**2015 F250 CREWCAB XLT**

Stk. #T15522  
 XLT Trim, 6.2L EFI V8, Oxford White, Steel Cloth,  
 6 Speed Automatic Transmission, Trailer Towing  
 Package, Western Edition Package

**MSRP \$54,984**  
 Brentridge Price Adjustment (\$4,989)  
 Delivery Allowance (\$10,000)  
 Costco Allowance (\$1,000)

**\$38,995**



**NEW 2015**

**2015 F350 CREWCAB XLT**

Stk. #T15492  
 Oxford White, Steel Cloth,  
 6.7L Power Stroke Diesel,  
 6 Speed Automatic Transmission.

**MSRP \$68,444**  
 Brentridge Price Adjustment (\$5,949)  
 Delivery Allowance (\$11,500)  
 Costco Allowance (\$1000)

**\$49,995**



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**LAZY S BULL POWER 2016**, January 30th, at the ranch, Mayerthorpe, AB. 240 polled red and black Simmental, Angus and Beefmaker (SimAngus) bulls. 780-785-3136. Video online www.lazyranch.ca

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**PUREBRED BLACK ANGUS** long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

**500 BRED ANGUS FEMALES** sell, Johnson Livestock Female Sale. Tuesday, Dec 15, on the Ranch, Peebles, SK. 110 bred heifers, all AI'd Final Answer, 15 cow/calf pairs, 200 registered cows, 150 commercial heifers all AI. Half sell in groups of 5 or 10. Catalogue online at Johnson-livestock.com text or call Andrew 306-736-7393, Peebles, SK. johnsonlivestockangus@gmail.com or website: johnson-livestock.com

**REGISTERED BLACK BRED HEIFERS**, various bloodlines. For more info. call Lambs Quarters Angus, 306-778-3797 or 306-741-6111, Swift Current, SK.

**YOUNG TOP QUALITY Black Angus cows** 115-4 year olds, 85-2 year olds. Bred full-blood Maine. Bulls turned out June 15, \$3,000. 306-476-2252, Killdeer, SK. lesm1@sasktel.net

**10 BLACK ANGUS heifers**, calving April 1st, Ivomec, Scourguard, all vaccinations, \$2200. 306-445-8425, North Battleford, SK



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**SELLING: BLACK ANGUS BULLS.** Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

**BRED HEIFERS PUREBRED** Black Angus, papers available. Exposed to light birth-weight Angus bulls, July 5 to Sept 5th. Contact Ernest Gibson, Everblack Angus, Vermilion, AB., 780-853-2422.

**BLACK ANGUS BULLS**, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. skinnerfarmsangus.com

**40 TOP QUALITY HOME RAISED** Black Angus bred heifers. Black calving ease bulls exposed June 28 to August 17. Preg. checked, full vacc. program. 80 to choose from, \$3000 ea. 306-434-6462 Fairlight SK

**RED ANGUS 5015**

**85 YEARLING RED ANGUS** bulls. Guaranteed, semen tested, and delivered in the spring. Phone Bob Jensen, 306-967-2770, Leader, SK.

**MARK YOUR CALENDARS** for the **Sunset Ridge Red Angus Complete Dispersal**, Saturday December 19, 1:00 PM at Heartland Livestock, Virden, MB. Selling 50 cow/calf pairs, 15 bred heifers, and 2 herd bulls. Wintering program and terms available on all bull calves. For a catalogue or more information contact Nancy Howatt 204-825-8292 or T Bar C Cattle Co. Ltd. 306-220-5006. View the catalogue online at www.BuyAgro.com PL # 116061

**10 STRAIGHT RED** bred Red Angus heifers. Bred to 78 lb. Red Angus bull, bull turned out June 1st. Bob or Tee Jensen, 306-967-2770, Leader, SK.

**99-3 YEAR** old Red Angus cows bred Red Angus; 150 Red Angus heifers bred to easy calving Red Angus bulls. All to start calving April 1. 306-784-7480, 306-629-7481, Herbert, SK. kenfalk57@gmail.com

**RED ANGUS BULLS**, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. skinnerfarmsangus.com

**CHAROLAIS 5055**

**40 PB CHAROLAIS** cows, 20 bred heifers, white and red factor w/w papers. Cows calving mid March, heifers mid April. Ervin Zayak, Creedence Charolais Ranch, Derwent, AB. 780-741-3868, 780-853-0708.

**8 BRED CHAROLAIS** cows, bred to Red Angus Bull and also 80 round bales. Call 204-739-6323, Fisher Branch, MB.

**POLLED PUREBRED COMING** 2 year old Charolais bulls, Red Factor and white. Easy calving. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

**REGISTERED CHAROLAIS BULLS**, 2 year olds and yearlings. Polled, horned, some red. Quiet hand fed, hairy bulls. 40+ head available. Will at Cougar Hill Ranch 306-728-2800, 306-730-8722, Melville, SK

**20 PUREBRED CHAROLAIS** cows and bred heifers, preg. checked. A great starting herd. Jim 306-839-4710, Pierceland, SK

**GELBIEH 5075**



**DAVIDSON GELBIEH/ LONESOME DOVE RANCH**, 27th Annual Bull Sale, Saturday, March 5, 2016, 1:00 PM at their bull yards. Complimentary lunch, 11 AM. Pre-sale viewing and hospitality, Friday, March 4th. Selling 100+ purebred yearling Gelbvieh bulls, Red or Black. Performance and semen tested. View catalog and video at: www.davidsongelbvieh.com or www.lonesomedoveranch.ca Vernon and Eileen 306-625-3755, 306-625-7863; Ross and Tara 306-625-3513, 306-625-7045, Ponteix, SK.

**HEREFORD 5090**

**FOR SALE: BRED Polled Hereford females.** Pasture exposed between April 29 - July 15th, \$3,000, 204-365-7426, 205-759-2188 Strathclair, MB. info@twinviewfarms.com

**23 POLLED HEREFORD HEIFERS**, bred Hereford. Call Duncan or Jeff Lees at: 306-455-2619 or 306-577-1375 Arcola, SK



**SQUARE D: TWO** year old and yearling bulls for sale. All bulls sell out of the yard. Pick now, we deliver, one at a time or by the trailer load. Replacement Hereford heifers bred Hereford, March calving. Jim Duke 306-538-4556, 306-736-7921, Langbank, SK. square-dpolledherefords.com square.d@sasktel.net

**HOLSTEIN 5100**

**FRESH AND SPRINGING** heifers for sale. Cows and quota needed. We buy all classes of slaughter cattle-beef and dairy. R&F Livestock Inc. Bryce Fisher, Warman, SK. Phone 306-239-2298, cell 306-221-2620.

**LOWLINE 5118**

**BIG ISLAND LOWLINES** Premier Breeder. Selling custom designed packages. Name your price and we will put a package together for you. Fullblood/percentage Lowline, embryos, semen. Black/Red carrier. Darrell 780-486-7553, Edmonton, AB.

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**SIMMENTAL 5205**

**SPRING CREEK SIMMENTALS'** Golden Opportunity II Female Sale. Will be held at the farm near Moosomin, SK., on Tues., Dec. 22, 2015, 1 PM. On offer 86 Red and Black Simmentals Angus and Simm/Angus cows and bred heifers. Brian McCarthy, 306-435-3590 or cell 306-435-7527.

**WANTED: PUREBRED RWF** Simmental top quality herd bulls. Phone 306-542-2575, Veregin, SK.

**TARENTEISE 5220**

**BRED TARENTEISE** Bred purebred and crossbred Tarentaise heifers and cows (2nd calves). Bred to Tarentaise bulls starting June 13. Call for pricing 403-901-1413, Strathmore, AB.

**TEXAS LONGHORN 5225**

**REG. LONGHORN COW** Herd Dispersal, 25 head of good quiet cows bred for wide heavy horn. Proven bloodlines bred to 2 great bulls. Photos and pedigree available at www.suncreekranches.com Call Cliff 780-388-3324, Buck Lake, AB.

**WELSH BLACK 5235**

**WELSH BLACK- The Brood Cow Advantage.** Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

**CATTLE VARIOUS 5240**

**50 RED/BLACK ANGUS/SIMM** cross cows for sale. Start calving Apr. 20. Cows have been Ivomeced and ultrasounded. Nice set of cows. Asking \$2350/ea. OBO. Phone 306-621-4643, Jason in Calder, SK.

**36 TOPCUT** RED Angus cross heifers, bred to easy-calving Red Angus bull, all AI bred June 10, exposed to Redman Son. Battleford, SK. 306-937-2880 or 306-441-5010.

**WANTED: PUREBRED RWF** Simmental top quality herd bulls. Call 306-542-2575, Veregin, SK.

**80 YOUNG COWS**, 2nd and 3rd calves, bred Black or Red Angus, April 1st calving. Can be feed to end of Feb. 306-386-2213 or 306-441-9327, Cochin, SK.

**50 COW/CALF PAIRS**, mostly Black and Red Angus cross. 2 weeks old to approx. 250 lbs. 204-937-7688, Roblin, MB.

**175 BLACK ANGUS BRED HEIFERS**, bred to low birthweight Black bulls, exposed July 4, 2015, vaccinated with VL5 plus 7 Som, Safeguard/Ivomec, \$2600. 306-476-7996, Rocklens, SK.

**20 PUREBRED CHAROLAIS** cows and bred heifers, preg. checked. A great starting herd. Jim 306-839-4710, Pierceland, SK.

**HOME RAISED Uniform Ranch Heifers.** Black and Brockles bred Black June 24. Full herd health, asking \$2500 each. Call Jerry Chanig, 306-478-2658, Mankota, SK.

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**250 COWS** FOR sale and ranch for rent. Looking for energetic business minded young couple interested in relocating. Call 780-755-2550, Edgerton, AB.

**120 ANGUS CROSS 2nd and 3rd** calving bred cows, bred to Angus bulls, start calving April 1st. 50 Angus bred heifers, bred Angus. Vaccinated with FP5 and Ivomec. Call 204-851-0745, Elkhorn, MB.

**CUSTOM WINTERING COWS** and feeders. For details call: Eric 306-717-8905, Cam 306-339-7840, Camdulf, SK.

**20 CHAR CROSS** cows for sale, bred Charolais, March/April calving. Layne and Paula Evans, Kenaston, SK 306-252-2246.

**HERD DISPERSAL: 80** bred Black Angus cross cows, you pick top 60, 100 bred mixed cows, you pick top 80. Full herd health program. \$2500 per head firm. 306-335-7875, Lemberg, SK.

**QUALITY RANCH** Red and Black Angus cross bred heifers, approx. 1100 lbs., health program. Bulls out Jun 6th, \$2750 OBO. 403-308-4200, Arrowwood, AB.

**BRED RED AND RWF Simm./Angus** cross heifers bred to Red Angus bulls. Breeding exposed June 1st. Mitch at: 306-467-4975, 306-467-7912, Duck Lake, SK.

**38 COW/CALF PAIRS.** Complete herd health program. Cows bred to Red Simm. bulls. Calves born mid July/August. 204-739-3011, Ashern, MB.

**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.

**BRED HEIFERS:** Black, BWF, and Red Angus, bred to easy calving Black Angus bulls. Start calving April 1. 306-493-2969, Delisle, SK.

**40 YOUNG BLACK ANGUS  
COWS BRED TO TOP  
CHAROLAIS BULLS**

All Cows coming with their 3rd calf!! Bulls turned out July 7th.

Preg tested, ivermectin pour on, spring shots before bulls turned out as well. Price \$3000.00 each take em all.

For pictures see classifieds page at [www.primroselivestock.com](http://www.primroselivestock.com)

All females on complete herd health. Quality satisfaction guaranteed on these supreme females.

Call Steve at 403-381-3700 or cell 403-382-9998

**BRED HEIFERS**, mostly Red Angus and Red Angus cross. Some Blacks. Start calving Feb. 01. Can pick 50 out of 100. Can see first and second calves from same herd as well as calves. Bred Angus. Asking \$3,000 OBO. May feed at custom rates. Carrot River, SK. 306-768-3226, 306-768-7386.

**HERD DISPERSAL: CAN WINTER** and calve for new owner. 150 cows, bred Red and Black Angus. You pick 130. 30 heifers bred Red Angus, you pick 25. Start calving Apr. 10. Cows, \$2450; Bred heifers, \$2700. 306-696-7870, Broadview, SK.

**90 CHAROLAIS CROSS COWS.** Charolais & Simm. bulls out June 25. Preg. checked Dec. 3. 403-664-2755, Oyen, AB.

**40 BLACK ANGUS HEIFERS**, bred to Black Angus heifer bulls from July 2nd, nice, quiet, average weight, 1100 lbs. Call 306-322-7905, Archerhill, SK.

**8- HALF ANGUS HALF LONGHORN** 2 yr. old heifer bulls, \$3500. 403-740-5197, Big Valley, AB.

**BLK. BWF BRED HEIFERS**, 20 top end bred heifers. Choose from 30. Bred to easy calving Angus bulls. Start calving April 1st. Full herd health program, \$2600. 306-246-4544 Richard, SK.

**CATTLE VARIOUS 5240**

**150 BLACK ANGUS 2ND CALVING  
COWS BRED TO SUPER BLACK  
ANGUS BULLS FANCY, FANCY!**

Bulls turned out June 15th. Price \$3300.00. Cows located in central SK. All females on complete herd health. Guaranteed quality satisfaction on these supreme females.

For pictures, visit the classifieds page at [www.primroselivestock.com](http://www.primroselivestock.com).  
Call Steve at 403-381-3700 or Cell 403-382-9998.

**100 BLACK ANGUS COWS  
BRED TO TOP NOTCH  
BLACK ANGUS BULLS**

Bulls turned in May 28th. Cows are in great shape age from 5 to 10 years old. All have good feet and udders. Price \$2500.00. Located Edmonton area. All females on complete herd health. Guaranteed quality satisfaction on these supreme females.

For pictures, visit the classifieds page at [www.primroselivestock.com](http://www.primroselivestock.com).  
Call Steve at 403-381-3700 or Cell 403-382-9998.

**MJ PETERSEN TRANSPORT** Ltd. has for hire ground load 53' cattleliner and a 53' stepdeck hay trailer. Mortlach, SK. Call Dakota 306-891-1380 306-631-2023 Miles

**EXCELLENT GROUP** OF 17 bred heifers, mostly RWF, preg checked, very quiet. Call Erwin Lehmann, 306-232-4712, Rosthern.

**22 SIMMENTAL** AND Simmental/Angus heifers, bred to proven easy calving Simm. bull for Feb./March calving. 306-335-7553 Balcarres, SK.

**\$5000 REWARD** LEADING up to or in finding 14 missing Simmental cows and 13 calves. Cows have brand "TLX" on left rib and possibly a brand of "P" and backwards "G" on left rib. Calves probably not branded. Went missing in Alliance/Sedgwick, AB area. Call 780-386-3745, 780-888-1258.

**BRED HEIFERS:** 9 Simmental/Angus heifers, due March 1st, 1100 lbs. \$2600. Phone 306-717-3297, Hafford, SK.

**TWO GROUPS** OF Red Angus Simmental cross heifers bred Red Angus. Calving starts February 15th and April 1st. 306-436-7741, Milestone, SK.

**10 BLACK ANGUS** bred heifers, approx. 900 lbs., \$2300. Phone 306-834-8188, Kerobert, SK.

**BRED HEIFERS FOR SALE.** 30 quality Simmental and Simmental Red Angus half blood heifers bred Red Angus to start calving April 1. 306-963-7700, 306-963-7777, Stalwart, SK. double.g@sasktel.net

**FOR SALE:** 66-3 year old Black cows, preg checked - safe in calf, bred to Black bulls, turned out July 1st for 70 days, asking \$2750. Call 306-329-4382, Saskatoon, SK.

**COMPLETE HERD** OF 100 yellow/tan Simm cross cows. Start calving end of March. Bred to Red Simm. bulls. Full herd health program. 2015 calves can be viewed w/cows. 2014 steer calves, avg. 634 lbs. Call Randy at 204-739-3011, Ashern, MB.

**74 BLACK HEIFERS** bred to low BW Red and Black Angus bulls. Start calving March 20th. 306-442-4545, Weyburn, SK.

**500 BRED 2nd and 3rd** calves, mostly Red and Black Angus, a few tans. Swift Current, SK, call 306-773-1049 or 306-741-6513.

**CATTLE WANTED 5245**

**WANTED: CULL COWS** and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

**WANT TO LEASE** or lease to own 40-70 bred beef cows. I can custom winter your cows. 306-275-4623 or 306-231-6439, Middle Lake, SK.

**LOOKING TO LEASE** or lease to own 50 plus head. Prefer to be Red or Black Angus. Call 306-296-7400, 306-296-7696.

**HORSES 5245**

**MULES 5380**

**2 FJORD MOLLY** mules, minis, and harness. 1 Arab mare sorrel w/blaze, 1 Paint gelding. 780-853-2031 or 780-581-4035, Vermilion, AB.

**PERCHERON 5400**

**TEAM OF DRAFT HORSES:** 1 grey Percheron and 1 sorrel Belgian, well broke, will separate, 3800 lbs., 14 years, asking \$4000. Make good chore team. 306-536-6189, 306-699-7242, Mclean, SK.

**HORSES VARIOUS 5460**



**2002 ARABIAN GELDING**, 15 HH, quiet, gentle, well broke. 306-516-7890, Yorkton, SK. everything-on-sale.weebly.com

**HARNESS/VEHICLES 5470**

**NEW BUGGY, WAGON**, sleigh, cutterwood and metal parts. Wooden wheel manufacture and restoration. Wolfe Wagons, Saskatoon, SK. Phone 306-221-1017 after 6 PM weekdays.

**2 RECONDITIONED BOBSLEIGHS**, as new, with 2-1/2" runners and new poles. Also 3 seat cutter. 780-744-2113, Islay, AB.

**SHEEP 5590**

**61 EWE LAMBS**. Rideau, Canadian and Ile de France crosses, \$300. 780-657-2234, Two Hills, AB. marcelbelanger@mcsnet.ca

**SUNGOLD SPECIALTY MEATS.** We want your lambs. Have you got finished (fat) lambs or feeder lambs for sale? Call Rick at: 403-894-9449 or Cathy at: 1-800-363-6602 for terms and pricing. www.sungoldmeats.com

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**SHEEP WANTED 5595**

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SEMINARS 5597**

**SHEEP and LAMB on-farm Biosecurity Workshop and Canadian Sheep and Lamb Food Safe Farm Practices Workshop**, in conjunction with SSDB's AGM and Symposium, will be held at the Ramada Plaza, 1818 Victoria Ave., Regina, SK. Jan. 15-16, 2016. Call: 306-933-5200, email: [sheepdb@sasktel.net](mailto:sheepdb@sasktel.net) to register. Visit: [www.sksheep.com](http://www.sksheep.com) for details.

**SHEEP SERVICE/  
SUPPLIES 5598**

**SASK. SHEEP DEV. BOARD** sole distributor of sheep ID tags in Sask., offers programs, marketing services and sheep/goat supplies. 306-933-5200, Saskatoon, SK. www.sksheep.com

**SWINE 5670**

**SWINE VARIOUS 5670**

**BUY ALL:** Pigs/swine/wild boar, raised outside, all sizes. Most \$ 1-877-226-1395. www.canadianheritagegameats.com

**8- STANFIELD ELECTRIC HEATING** pads, never plugged in. 1' wide x 4' long, \$550. buys all. 250-260-1650, Vernon, BC.

**POULTRY 5740**

**POULTRY VARIOUS 5740**

**READY TO LAY** pullets. Taking early booking for white or brown for June pickup. Call for pricing. 306-435-3530, Moosomin, SK.

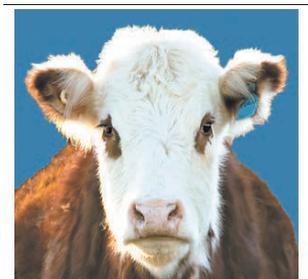
**SPECIALTY 5753**

**ALPACAS 5753**

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**TREE MULCHING/ BRUSH MOWING Services.** Mulch up those annoying tree rows or the piles you have from digging them out. Brush mower for up to 5' trees and mulch head for all sizes. Yard and fence line clean up. Call for free estimate. 306-460-7102, Saskatoon, SK.

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**NEW TUPPERWARE,** liquidating, no tax, discount prices. 306-516-7890, Yorkton, SK. [everything-on-sale.weebly.com](http://everything-on-sale.weebly.com)

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**CERTIFICATION SERVICES 5943**

**WANT THE ORGANIC ADVANTAGE?** Contact an organic Agriologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or [info@pro-cert.org](mailto:info@pro-cert.org)

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Bioriginal Food & Science Corp. is actively buying **Organic Flax & Organic Hemp** from the 2015 crop year.

If interested, please send an 8lb sample\* for analysis to the following address:

Attn: Sandy Jolicoeur  
Bioriginal Food & Science Corp.  
102 Melville Street  
Saskatoon, Saskatchewan  
S7J 0R1

\*Please state the Variety & Quantity for Sale

For more information, please contact Sandy Jolicoeur at (306) 975-9251 or Carl Lynn at cell (306) 229-9976 or email [crops@bioriginal.com](mailto:crops@bioriginal.com)



**WANTED ORGANIC FEED GRAIN.** Call DMI 306-515-3500, Regina, SK

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**BEST COOKING PULSES** accepting samples of organic and conventional pulses for 2014/2015 crop year. Matt 306-586-7111, Rosett, SK.

**GOT GRAIN FOR SALE?** Growers International is currently dealing in all wheats and durum, malt and feed barley, milling and feed oats, brown and golden flax, spelt, edible and feed peas, brown and yellow mustard and lentils. Call Mark Gimby 306-652-4529 or Lorne Lix 204-924-7050.

**LIVESTOCK 5948**

**WANTED: CERTIFIED ORGANIC** feeder cattle. Call Peter Lundgard, Nature's Way Farm at 780-338-2934, Grimshaw, AB.

**PERSONAL 5950**

**PERSONAL ADS**  
Personal Advertisements will not be accepted over the telephone. Only those advertisements carrying the written signature of the advertiser will be published. (Although name and address will not appear in one's ad, we must have this information for our files.) Full payment must also accompany Personal Ads. Replies to Western Producer box numbers will be forwarded for two months.

**SINGLE MALE, AGE 50,** seeking female 40-60 who likes farm and country lifestyle. Reply to: Box 5575, c/o The Western Producer, Box 2500, Saskatoon, SK. S7K 2C4.

**WANTED:** If you know a rancher/farmer who would like to meet a down to earth common sense, attractive youthful looking 49 yr old female who also lives the country life. Email: [country6688@outlook.com](mailto:country6688@outlook.com)

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**GENTLEMAN LIKE TO** meet lady 60-70 years for friendship/companionship to go for coffee outings and dancing. Reply with photo to: Box 5573, c/o The Western Producer, Box 2500, Saskatoon SK. S7K 2C4.

**PERSONAL VARIOUS 5952**

**Available Bachelorette Christine -** Age: 48

Beautiful, outgoing, adventurous girl owns an organic grain farm with her brother. Very hard working, but loves to have fun. Loves country music, concerts, biking, swimming, riding and caring for her horses, and spending time outdoors. Has 2 grown children, divorced 6 yrs. Looking for hardworking, fun, caring and loyal man for a long term relationship with someone who isn't afraid of commitment and isn't afraid to say how they feel. Looking for true love; someone to spend her life with, and make each other happy.

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**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.

**REGISTERED 5970**

**CKC REGISTERED WEIMARANER** pups. Vet checked, first and second shots, dewormed, microchipped. Two year health guarantee. Call 306-380-7591 or email [pjweims@gmail.com](mailto:pjweims@gmail.com)

**NON REGISTERED 5971**

**GOLDEN RETRIEVER PUPS,** ready to go. Phone Ed 306-269-7745, leave message if not in, Foam Lake, SK.

**WORKING DOGS 5973**

**4 GREYHOUND PUPS,** 8 months old from outstanding hunting parents. Will be ready to hunt next fall. Serious inquiries only. Call 403-556-0282, Olds, AB.

**KUVASZ/PYRENEES,** 4 males & 1 female, 1 yr. old. Farm raised. Medicine Hat, AB., 403-526-9177 or 403-502-9470.

**GREAT PYRENEES/AKBASH CROSS** pups, born Oct. 3, with sheep, both working parents. \$200. 306-845-2404, Livelong, SK

**NEW ZEALAND HUNTAWAY** herding pups, ready to train. Four months old males, black w/white chest, \$600./each. Gordon and Irene Trost: 780-576-2293, or email: [irenetrost@gmail.com](mailto:irenetrost@gmail.com) Newbrook, AB.

**PB AUSTRALIAN SHEPHERD PUPS,** working parents, new litter at Christmas. Call 780-853-2783, Vermilion, AB.

**REGISTERED BORDER COLLIE** pups, Sire Scottish import, son of 2010 International Champion, top working stock. 780-941-3843, New Sarepta, AB.

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**OKANAGAN RESTAURANT OPPORTUNITY.** Beautifully decorated, fully equipped restaurant for sale in the Shuswap area of BC. Large kitchen and prep area is ideal for catering. Sports lounge with numerous TVs and a gorgeous bar. Patio seating for 40. This restaurant is a tremendous buy and a great opportunity for a chef/owner. Absolutely everything you need to start tomorrow is included. Priced well below replacement value. Owners are motivated and have other business interests to act on. Photo package available on request to serious buyers only. \$199,000. Salmon Arm, BC. [bstation@telus.net](mailto:bstation@telus.net)

**SHUSWAP LAKE, BC:** 37.5 acres with older log home, 3 bdrms., 1 bath. Good water, timber, subdivisible. Phone 250-955-2263.

**COMMERCIAL BUILDINGS/LAND 6115**

**GRAZING LEASE & Deeded** land for sale/rent. 23 quarters grazing lease for sale with 12 adjoining quarters of deeded land for rent. For sale by owner. 780-202-0167, Winfield, AB. [k.keates@outlook.com](mailto:k.keates@outlook.com)

**COTTAGE/LOTS 6125**

**CEDAR LOG HOMES AND CABINS,** sidings, paneling, decking. Fir and Hemlock flooring, timbers, special orders. Rouck Bros., Lumby, BC. [www.rouckbros.com](http://www.rouckbros.com) 1-800-960-3388.

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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.

**RECENTLY REDUCED.** 1800 sq. ft. home to be moved off lot. 3 bdrm, 1 bath, large porch, office, 2 family rooms, \$50,000. Must see! Jason 306-642-3315, Assiniboia.

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**RESORTS 6129**

**APACHE JCT, AZ.** 55+ gated community, 12x54 mobile home w/AZ room, sleeps 5, fully furnished, exc. cond. 780-974-3844.

**ATTENTION SNOWBIRDS:** Lot to rent or resort/trailer/motorhome. Roadhaven Resort, Apache Junction, AZ., 780-836-6478, 780-836-3086, Evelyn, [petkus@telus.net](mailto:petkus@telus.net)

**FARMS & RANCHES**

**BRITISH COLUMBIA 6131**

**700+ ACRE PUREBRED** Angus beef ranch, located central BC. House, buildings, and irrigation. Livestock, irrigation and equipment negotiable. 250-330-4423.

**RANCH IN VANDERHOOF, BC.** 1405 acres, prime land, creeks, 40,000 acre gov't. grazing license. Great buildings and home, \$1,649,000. McBride Realty Cent Ltd. 1-877-569-2735. [rodder@mcbriredrealty.com](mailto:rodder@mcbriredrealty.com)

**ALBERTA 6132**

**3000 ACRES DEEDED** farmland for sale in 1 block. Sections 5, 6, 7, 8 and 18, all 22-2-W4. Bindloss, AB. [h.field@shaw.ca](mailto:h.field@shaw.ca) Call 403-528-5425 or 403-548-1299.

**LOOKING FOR DRY** land or irrigation to seek to pure alfalfa. Cash rent by standing, or crop share. Prefer west of Hwy. #36, south of Hwy. #27. Call Barry at: 403-507-8660, email: [info@barr-ag.com](mailto:info@barr-ag.com)

**RANCH FOR RENT** and 250 cows for sale. Looking for energetic business minded young couple interested in relocating. Call 780-755-2550, Edgerton, AB.

**Happy Holidays!!**  
Wishing you and your family peace, love and joy during the Holiday Season.  
We are grateful for your support and look forward to serving you in the New Year!

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**Jiffy Bale Processor**

Model	Maximum Bale Length	Discharge	Chamber Length	Number of Hammers	Hammer Size
RJS 927	72"	left hand	95"	32	1/2" x 2" x 5 1/4"
RJS 928	72"	right hand	95"	32	1/2" x 2" x 5 1/4"
RJS 958	108"	right hand	117"	40	1/2" x 2" x 5 3/4"

1000 RPM PTO / 100 HP Minimum / Optional Hydraulic Deflector Kit

The exclusive Jiffy Rock-Not-Roll cradle:

- Shreds hay across the bale, not just the outside layer.
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# SASKATCHEWAN FARMS & RANCHES

*Season's Greetings  
from all of us at Lane Realty*



**WC SASK  
GRAIN**

**CONQUEST:** 319 ac. - 1553 sq ft home on well treed yard site, 311 cult. ac., assess. 58,850/qtr. & grain storage.  
**DAVIDSON:** 425 ac. - 408 cult. ac., assess. 75,300/qtr. 158 ac. **SOLD**  
**KENASTON:** 1913 ac. - 1572 cult. ac., assess. 60,840/qtr.  
**WISETON:** 951 ac. - 875 cult. ac., assess. 65,325/qtr.  
**WISETON:** 1590 ac. - cattle set up & 1400 sq ft Bungalow.

**LIVESTOCK**

**ARDATH:** 1499 ac. - 724 cult. ac., + 747 ac. pasture, cattle facilities, 1380 sq ft home on well treed yard.  
**ELROSE:** 160 ac. - 148 ac. tame hay, barbed wire fencing, assess. 52,800.

**ACREAGES**

**HITCHCOCK BAY:** 0.21 ac. - Must see 1255 sq ft home on Lake Diefenbaker with town water supply. Call for details!  
**KERROBERT:** 5.2 ac. - 1552 sq ft home on well treed/landscaped yard on Highway #51.  
**OUTLOOK:** 296 ac. - 146 cult. ac., bal. nat. grass, fenced, cattle facilities, grain storage, 2370 sq ft home w/many more feature. Call for details!

**SW SASK  
LIVESTOCK**

**LEADER:** 2390 ac. - 1434 ac. deeded + 956 leased ac., 563 ac. tame hay, bal. pasture, fenced, steel grain storage, 1680 sq ft home.  
**LEADER:** 6279 ac. - 1566 ac. deeded + 4713 ac. leased, 320 cult. ac., bal. nat. grass, S. Sask River frontage, assess. 40,425/qtr., w/springs.  
**PARKBEG:** 2228 ac. - 784 cult. ac (tame grass), 1,444 ac. nat. grass, assess. 45,870/qtr, all but 3 qtrs. fenced, strong water supply. Call for details!  
**RICHMOUND:** 479 ac. - fenced/cross fenced, strong water supply, assess. 25,765/qtr. Includes Annual Surface Lease Revenue. Call for details!

**ACREAGES**

**RAVENSCRAG:** 318 ac. - 110 cult. ac, fenced/cross fenced, 2200 sq ft home with 2 log cabins, creek that runs through property.  
**WOOD MOUNTAIN:** 40 ac. - 30 cult. ac., large garden w/fruit trees, 1620 sq ft home.

**EC SASK  
GRAIN**

**BROADVIEW:** 1194 ac. - 755 cult. ac., land surrounds Painters Lake, cattle land fenced, well treed yard site w/underground power...many more features. Call for details!  
**CANORA:** 103 ac. - 84 cult. ac., assess. 59,100, steel grain storage.  
**CHURCHBRIDGE:** 636 ac. - 377 cult. ac., bison fencing on property, 1400 sq ft home on well treed yard.  
**CUPAR:** 1089 ac. - 929 ac. deeded + 159 ac. leased. 641 cult. ac., (some tame grass), 1500 sq ft home, power in yard, steel grain storage.  
**GUERNSEY:** 111 ac. - 60 cult. ac., assess. 45,075/qtr.  
**HOLDFAST:** 962 ac. - 845 cult. ac., steel grain storage, 1536 sq ft home, close to Last Mountain Lake!  
**ITUNA:** 662.84 ac. - 487 cult., assess. 73,475/ qtr.  
**KILLALY:** 787 ac. - 564 cult. + 100 ac. tame grass, cattle facilities, 1288 sq ft Bungalow.  
**LIPTON:** 2049 ac. - approx. 1850 cult., home section fenced, cattle handling facilities, 1,700 sq ft home. Many more features w/Full line of machinery avail.!!  
**PUNNICHY:** 1755 ac. - 1242 cult. ac., steel grain storage, 1572 sq ft home.  
**SEMANS:** 480 ac. - 368 cult. ac., 75 ac. seeded to Alfalfa/Grass, assess. 73,930/qtr.  
**SHEHO:** 1274 ac. - 992 cult. ac., assess. 64,550/qtr., steel grain storage, summer cottage, 1350 sq ft home on well treed/maintained yard.  
**SOUTHEY:** 311 ac. - 290 cult. ac., assess. 51,980/qtr., power & nat. gas., 1 mile off Highway #6.

**STOCKHOLM:** 159 ac. - 130 cult ac., assess. 77,900, vacant treed yardsite.  
**WYNYARD:** 159 ac. - 100 cult. ac., 30 ac. of Aspen, assess. 70,700.  
**YORKTON:** 1755 ac. - 1000 cult. ac. + 507 ac. tame grass, 2 yard sites w/two homes, cattle facilities w/many more features.  
**YORKTON:** 160 ac. - 140 cult. ac., assess. 87,000.

**LIVESTOCK**

**DYSART:** 159 ac. - 135 cult. ac., fenced, power on property.  
**KELLIHER:** 316 ac. - 252 cult. ac. (seeded to tame grass), corrals, fenced/cross fenced, assess. 72,750/qtr.  
**LEROSS:** 303 ac. - 262 cult. ac. (all in nat. pasture), assess. 74,500/qtr. Certified OCIA Organic until 2006 (not sprayed since). Call for details!  
**MELVILLE:** 470 ac. - 332 cult. ac., 75 ac. fenced pasture, 1905 sq ft home on well landscaped yard, dairy barn, steel grain storage.

**ACREAGES**

**ALICE BEACH:** 0.19 - lot with RV & power located on Last Mountain Lake.  
**BREDENBURY:** 20 ac. - 1586 sq ft home w/recent renovations on well treed yard.  
**BULYEA:** 45 ac. - 40 ac. tame grass, assess. 79,490/qtr., livestock facilities, 1217 sq ft home.  
**ESTERHAZY:** 320 ac. - 269 cult. ac., 1370 sq ft bungalow on well treed yard. 16 ac. acreage and land avail. separately!  
**FINDLATER:** 17 ac. - all Alfalfa Brome (Certified Organic), on Highway #2.  
**FORT QU'APPELLE:** Executive home on 5 acres on Highway within commuting distance of Regina, 1832 sq ft with nat. gas & water pipeline. Call for details.  
**GRAYSON:** 19 ac. - 1700 sq ft home w/recent upgrades on well maintained/treed yard, grain bins & fert. bins.  
**GRAYSON:** 158 ac. - 142 cult. ac., fenced/cross fenced, 3168 sq ft home w/many reno's on a well maintained & treed yard w/ Highway access!  
**ITUNA:** 158 ac. - 100 cult. ac. (tame grass), perimeter fencing, 1216 sq ft home on well maintained yard.  
**LEMBERG:** 40 ac. - 1225 sq ft home, 130 tame grass & horse facilities.  
**PILOT BUTTE:** 20 ac. - 2104 sq ft home on well treed yard, cattle facilities, grain storage & green house.  
**ROUND LAKE:** 18 ac. - located on the Hillside of the Qu'Appelle Valley w/panoramic view, 1872 sq ft home, Highway #247 access.  
**WROXTON:** 159 ac. - 97 cult. ac. with house and strong water supply.

**OTHER**

**YORKTON:** 41.79 ac. - 2,815 feet of Hwy #10 frontage. *Great commercial development potential!*

**NW SASK  
GRAIN**

**PARKSIDE:** 919 ac. - 810 cult. ac., assess. 58,300/qtr., steel grain storage.

**LIVESTOCK**

**LOON LAKE:** 3478 ac. - 2513 ac. deeded + 964 ac. leased. 428 cult. ac., assess. 28,160/qtr., fenced, 1700 sq ft home w/walkout basement. Cattle opt. Call for details!

**NE SASK  
GRAIN**

**CRYSTAL SPRINGS:** 505 ac. - 397 cult. ac., assess. 85,340/qtr. on Highway #41 & Highway #20. 290 ac. **SOLD**  
**ELFROS:** 158 ac. - 48 cult. ac., balance nat. grass, assess. 53,900.  
**KINISTINO:** 420 ac. - 367 cult. ac., perimeter fenced, assess. 109,050/qtr., 1358 sq ft home w/Melfort water supply. Home qtr. w/yard & buildings. & land avail. separately!  
**MELFORT:** 159 ac. - 142 cult. ac., assess. 74,600.  
**MELFORT:** 1722 ac. - 1615 cult. ac., assess. 127,070/qtr., grain storage, incl. seed cleaning business & equip., 2592 sq ft home w/1296 sq ft walk-out basement, well maintained & restored. Must see w/many more features. Call for details!  
**SHIPMAN:** 321 ac. - 240 cult. ac., assess. 37,050/qtr.  
**TOBIN LAKE:** 300 ac. - 265 cult. ac., assess. 43,585/qtr. Qtr's available separately!  
**WAKAW:** 158 ac. - 155.4 cult. ac., assess. 136,900.

**LIVESTOCK**

**ENDEAVOUR:** 637 ac. - 149 ac. tame grass, bal. nat grass, fenced, steel grain storage, 1680 sq ft home on well maintained yard.  
**MIDDLE LAKE:** 157 ac. - 97 ac. seeded to Grass/Alfalfa, perimeter Bison fence, corrals to handle bison, assess. 44,200.

**ACREAGES**

**BRUNO:** 160 ac. - 138 cult. ac., commercial shop, 1402 sq ft home.  
**CARROT RIVER:** 10 ac. - mature treed yard, 720 sq ft home. Suitable for Hunting & Recreation.  
**QUILL LAKE:** 10 ac. - 1488 sq ft home on mature treed yard site, strong water supply, 3 fuel tanks, opt. 127,000 bu. steel grain storage. Call for details!  
**TOBIN LAKE:** 153 ac. - 117 ac. cult., 30 ac. of game fence, bungalow home on well treed/maintained yard.

**SE SASK  
GRAIN**

**GRENFELL:** 482 ac. - 410 cult. ac., mostly open land, steel grain storage.  
**KENNEDY:** 472 ac. - assess. 61,225/qtr., near oilfield Bakken development, on highway #9. 156 ac. **Sold**  
**KIPLING:** 160 ac. - 90 cult. ac., assess. 46,400. 2 additional qtrs. available!  
**KIPLING:** 160 ac. - 100 cult. ac., assess. 57,200.  
**KRONAU:** 480 ac. - 413 cult. ac., assess. 104,730/qtr., 2 houses, off Highway #33.  
**MILESTONE:** 160 ac. - 157 cult. ac., assess. 116,500  
**PARRY:** 1118 ac. - 1013 cult. ac., 1872 sq ft bungalow.  
**ROULEAU:** 316 ac. - 309 cult. ac., assess. 98,175/qtr.  
**WHITEWOOD:** 319 ac. - 263 cult. ac., perimeter fenced, assess. 75,800, 1 additional qtr. avail!  
**WHITEWOOD:** 1507 ac. - 812 cult. ac., bal. nat. grass, fenced, 2000 sq ft home, 2 miles of waterfront land, well treed yard site.  
**WINDTHORST:** 160 ac. - 130 cult. ac. assess. 76,200/qtr.

**LIVESTOCK**

**KIPLING:** 1118 ac. - 746 ac. tame grass, 1350 sq ft home, Home qtr. & land available separately. Call for details!!  
**YELLOW GRASS:** 1934 ac. - 474 cult. ac. + 1257 ac. tame grass, bal. nat. grass., Opt. 150 head of Bison.

**ACREAGES**

**BROADVIEW:** 16 ac. - 1400 sq ft home close to the #1 Highway, small valley runs through property, cattle shelter with strong water supply.  
**SPRING VALLEY:** 158 ac. - 130 ac. hay, cattle facilities, 1136 sq ft home on well treed yard, livestock & equipment available. Call for details!



# LANE REALTY

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**SASKATCHEWAN 6133**

**ID#1100257 OSLER:** Modern dairy farm with 145 acres. 180 cow free stall barn with state of the art auto identifying double 10 milk parlor and an attached calf-heifer barn. 154.79 kg daily milk quota. 1614 sq. ft. home, and a workshop. MLS# ID#1100380 BENGOUGH: 34 quarter sections (5419.16 acres) of probably the best grassland around. Numerous sloughs, dugouts and an underground river run through the property. Could be farmed. Yardsite with home, corrals and quonset and another with a 1978 bungalow and well. MLS# Real Estate Centre, 1-866-345-3414. For all our listings view [www.farmrealestate.com](http://www.farmrealestate.com)

**FOR RENT:** 3 quarters grainland, RM of Ponass Lake #367, NE-11-37-13, NW-11-37-13, SW-10-37-13. Inquiry text to: 306-690-6786. See details at: <http://community.bidwin.org/post/grainland-for-rent-ponass-lake>. Rose Valley, SK. [robingliu@hotmail.com](mailto:robingliu@hotmail.com)

**FOR SALE BY TENDER:** RM Chesterfield #261. NW-15-27-25-W3, assess 55,600, 145 acres, taxes \$311; NE-1-27-25-W3, assess 75,000, 159 acres, taxes \$552; NW-15 is seeded to Alfalfa, RM Newcombe #260. NW-6-27-24-W3, assess 73,200, 155 acres, taxes \$550; SW-6-27-24-W3, assess 72,100, 150 acres, taxes \$542; NW-10-27-23-W3, assess 76,200, 158 acres, taxes \$572; NE-10-27-23-W3, assess 83,500, 145 acres, taxes \$627; SW-10-27-23-W3, assess 62,200, 143 acres, taxes \$467; NW-11-27-23-W3, assess 45,300, 130 acres, taxes \$340. Conditions of Offers: 1) Highest or any offers not necessarily accepted. 2) Offers acceptable on any or all parcels. 3) Persons submitting offers must rely on their own research, inspection of land and improvements as to conditions and no. of acres. 4) Deposit cheque for 5% of the offered amount must accompany the offer. Cheque made payable to **Edge Realty Ltd.** (cheques will be returned to unsuccessful bidders). 5) No offers will be considered which are subject to financing. 6) Tenders close at 3:00 PM on December 18, 2015. 7) Steel Grain Bins are to be included in Tender. 3 bins on NE-10-27-23, 4 bins on SW-6-27-24. 8) Please forward all bids and inquiries to: Brad Edgerton, Edge Realty Ltd., Box 1324, Kindersley, SK. S0L 1S0. Call 306-463-4515. Email: [brad@edgerealty.ca](mailto:brad@edgerealty.ca)

**DID YOU HAVE CANOLA DAMAGE** from Frontline Tank contamination in 2014/2015? Contact Back-Track Investigations 1-866-882-4779 for assistance and compensation. [backtrackcanada.com](http://backtrackcanada.com)

**LAND FOR SALE** RM Buchanan: NE-24-32-5-W2, 109 cult. acres. NW-24-32-5-W2, 101 cult. acres, power, 3 air bins, 3 steel bins. NW-25-32-5-W2, 133 cult. acres, machine shop, 2 steel bins. SW-19-32-4-W2, 131 cult. acres. 306-563-7455 or 306-563-7534

**RM OF CANAAN:** Approx. 160 acres of farmland. John Cave, Edge Realty Ltd., 306-773-7379. [www.farmsask.com](http://www.farmsask.com)

**BEAUTIFUL 160 ACRES,** 17 miles NW of Meadow Lake, SK., 1/2 mile S of Beaver River. Can be used as recreation land, hay or grains. NW-31-18-60-W3, RM 588. \$142,000. 306-240-5997.

**RM OF HOODOO #401,** SW-36-43-26-W2, 158 acres, 155 cultivated. New scale assessment, 107,600. Taxes \$1,142/yr. Asking price, \$275,000. Contact Omar Gomaa by phone at: 403-407-1700, or email to: [gomaanm@gmail.com](mailto:gomaanm@gmail.com) Wakaw, SK.

**RM 225: IRRIGATION potential!** Approx. 800 acres of grainland which can be irrigated from the South Sask. River according to the owner. Excellent opportunity to own irrigated land. John Cave, Edge Realty Ltd., 306-773-7379. [www.farmsask.com](http://www.farmsask.com)

**MINERAL RIGHTS.** We will purchase and/or lease your mineral rights. 1-877-269-9990. [cnfrees@telusplanet.net](mailto:cnfrees@telusplanet.net)

**WANT TO RENT:** Farmland in RM of Grandview #349, RM of Reford #379, or RM of Biggar #347. 306-948-7807, Landis, SK.

**RM BUCHANAN #304,** SE-34-33-6-W2, 160 acres, 135 cult., 8000 bu. storage, \$180,000 OBO. 306-547-3364, Preceville

**RM OF GRANT #372,** 30 miles east of Saskatoon off Hwy #5. SE 29-37-28-W2, 153 acres, 82 cult. 54,700. assessment. MLS#556060 \$152,000. Garry Frie, Royal LePage Saskatoon, SK. 639-480-7254

**RM DOUGLAS,** 6 quarters; RM Meeting Lake, 1 quarter. High assessed grain land, incl. beautiful house, quonset and 32,000 bushel grain storage. MLS 540308. RM Viscount, 10 quarters. Farm with 2 houses, 2 quonsets and machine shed, 60,000 bu. grain storage. MLS 553191. Realty Executives, Mike Janostin, 306-481-5574, [mikejanostin@realtyexecutives.com](mailto:mikejanostin@realtyexecutives.com)

**RM OF CALEDONIA #99** 480 acres. 40 mi. SE of Regina. Assess 256,400. Asking \$1190/acre. Keith Bartlett 306-535-5707, Sutton Group Results Realty, Regina, SK.

**RM OF CUT KNIFE #439.** 471 acres of prime hunting land; 2 quarters are fenced with 8 ft. game fencing. Real hilly and fair amount of bush. Plus a creek runs through the property. Also has two mobile homes: one for staff and the other for hunting guest. A small air strip for experienced pilots only. This is a hunter dream spot and only 40 miles from North Battleford, SK. MLS#555373. For further information call: Alan Somer/Lloyd Ledinski 306-446-8800, 306-441-0512, or 306-441-1596.

**RM OF PRAIRIEDALE.** 3 quarters grain land, 7500 bu steel bin storage, 1 gas well. \$599,900. Tom Neufeld, Coldwell Banker ResCom Realty, Saskatoon 306-260-7838.

**DWEIN TRASK REALTY INC.,** NW-05-38-24-W3, SW-07-38-24-W3 and NE-06-38-24-W3 total 480 acres. Reward, SK. 6 oilwell leases and long term land renter. Please call Dwein Trask at 306-221-1035 for more info.

**FOR SALE: RM ST. PETER,** SW and NW-27-39-19-W2. Includes yardsite w/50x60' arch rib shop and tools, total grain bin capacity of approx. 113,000 bu., well, dugout, natural gas outlet for grain dryer, 1950's house, car and truck sheds, 40x60' steel quonset, approx. 220 cultivated acres. \$830,000. Up to 9 additional nearby quarters may be purchased as well. 306-874-5554, 306-874-2920, Naicam, SK.

**LAND FOR SALE: SE-17-36-17-W3** RM of Biggar #347. Assess 87,200. Closing Date: December 18, 2015. Please direct all enquiries to Busse Law Professional Corp., Box 669, Biggar, SK. S0K 0M0. Phone 306-948-3346 or reception@busselaw.net

**RM DOUGLAS,** 6 quarters; RM Meeting Lake, 1 quarter. High assessed grain land, incl. beautiful house, quonset and 32,000 bushel grain storage. MLS 540308. RM Viscount, 10 quarters. Farm with 2 houses, 2 quonsets and machine shed, 60,000 bu. grain storage. MLS 553191. Realty Executives, Mike Janostin, 306-481-5574, [mikejanostin@realtyexecutives.com](mailto:mikejanostin@realtyexecutives.com)

**RM OF CALEDONIA #99** 480 acres. 40 mi. SE of Regina. Assess 256,400. Asking \$1190/acre. Keith Bartlett 306-535-5707, Sutton Group Results Realty, Regina, SK.

**HOME QUARTER,** 158 acres, 40 acres fenced to grass, 118 cult., RM Leroy #339. Features shop, barn, 2000 bu. grain bin, round pen, corrals, water bowl, dugout and well. 1184 sq. ft. fully renovated house with many extras in a mature yard. \$610,000. For more info. and pics call 306-231-6940, 306-231-6938, Lanigan, SK

**PRIME PRAIRIE GRAINLAND:** 353 acres near Brunkland, MB. Norman Davesky, Box 56524, Vancouver, BC. V3J 7W2, 604-428-4970, [ntdtd21@gmail.com](mailto:ntdtd21@gmail.com)

**EXCELLENT LIVESTOCK FARMS:** 1) 1000 head feedlot, Hartney. 2) 1732 deeded acres w/4425 acres of Crown land, fenced, small bungalow, vg buildings and metal corral system, can carry 450 cow/calf pairs. 3) 1270 deeded acre cattle farm by Lac du Bonnet, 640 acres Crown land, turkey operation. 4) Cattle ranch, Pine River, 3300 deeded and 1200 acres Crown land. Jim McLachlan 204-724-7753, HomeLife Home Professional Realty Inc., Brandon, MB., [www.homelifeapro.com](http://www.homelifeapro.com)

**2015 ARCTIC CAT Youth 90,** featuring forward and reverse, visibility flag, utility styling, only \$3499. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**2015 ARCTIC CAT Wildcat Sport LTD EPS,** rapid response clutch, 700, 4-stroke eng., bucket seats, \$12,199. 306-543-7766, Open Road Recreation Regina DL#917632

**2016 YAMAHA WOLVERINE R-Specs EPS,** true 4x4 performance, all new 708cc DOHC engine, \$15,399. 306-543-7766, Open Road Recreation Regina DL#917632

**2016 YAMAHA KODIAK 700,** electric power steering, handle bar mounted headlight, winch kit included, \$9699. 306-543-7766, Open Road Recreation Regina DL#917632

**ARCTIC CAT TRV 700,** fuel injected, alloy wheels, winch, hitch, windshield, was \$8670 now only \$6999. 306-543-7766, Open Road Recreation Regina DL#917632

**2015 CHALLENGER 37ND,** Stock # 16341, (\$223,623. MSRP), Sale \$144,900. (Save \$78,723!) Call: 1-866-346-3148, or shop online 24/7 at: [www.allandale.com](http://www.allandale.com)

**2016 PALAZZO 36.1,** Stock # K4419, 340 HP, 2 slides, fully loaded, (\$292,022 MSRP). Cash price \$224,000. (Save \$68,022). Shop online 24/7 website [www.allandale.com](http://www.allandale.com) or 1-844-488-3142.

**2016 TUSCANY 45AT,** Stock #H5312, 450 HP independent front susp., Aqua hot and many more options available. Call for a quote: 1-866-346-3148, or shop online 24/7: [www.allandale.com](http://www.allandale.com)

**2013 YAMAHA VENTURE,** electric start, reverse, 2-up, only 620 miles, \$8999 or only \$99 B/W. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**SNOWMOBILES 6168**

**WANTED: SKI-DOO SKANDIC 440LT,** 2001 to 2009. Will pay premium for low mileage sled. Ph 306-278-7344, Porcupine Plain, SK.

**2010 ARCTIC CAT F8 Limited,** electric start, reverse, 2 stroke, 794 CC, \$8590, now \$6999. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**TRAIL GROOMER BOMBARDIER BR160** Mogul Master MBP18-08 groomer, \$35,000. 306-563-8765, Canora, SK.

**2016 YAMAHA SR-VIPER M-TX SE, 141"** Yamaha Genesis high perform. eng. 40-42" adjust. stance, \$14,299. 306-543-7766 Open Road Recreation Regina DL#917632

**PARTS FOR VINTAGE snowmobiles,** 1990 and older. Call Don at 780-755-2258, Wainwright, AB. [doncole@mcnsnet.ca](mailto:doncole@mcnsnet.ca)

**2016 ARCTIC CAT M8000 SP LTD, 153"** 160 HP weight saving engine, reverse arctic team clutches, \$15,599. 306-543-7766, Open Road Recreation Regina DL#917632

**ARCTIC CAT SNO Pro 500, 2 stroke, EFI,** long track, fresh trade, \$6999 or only \$89 B/W. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**2014 ARCTIC CAT XF 8000 LTD SP 794cc,** liquid twin, only 541 miles, \$10,999 or only \$109 B/W. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**2010 POLARIS DRAGON 800,** fresh trade, only 541 miles, great mountain sled, \$7850, now only \$6499. 306-543-7766, Open Road Recreation Regina DL#917632

**SLEIGHS- HUNTING, CALVING, hauling,** or playing. Koenders Sleighs are SK. made and come in a variety of sizes w/optional covers for all types of jobs. Flaman, 1-888-435-2626, [www.flaman.com](http://www.flaman.com)

**WANTED: SOMEONE** to do a full restoration of a 1970 Ski-Doo Olympique sled. Call 306-278-7344, Porcupine Plain, SK.

**2015 YAMAHA PHAZER M-TX 144"** Genesis sport performance, 499cc 4-stroke, mountain susp., \$8999. 306-543-7766, Open Road Recreation Regina DL#917632

**2016 ARCTIC CAT ZR 120 - 123cc** four-stroke engine, \$3299. 306-543-7766, Open Road Recreation, Regina, SK. DL#917632.

**RENTAL/ACCOMODATIONS**

**VACATION ACCOMMODATIONS 6245**

**SUN BEACH MOTEL,** 1 bdrm suite, \$685, 2 bdrm starting at \$850. 250-495-7766, Osoyoos, BC. [www.sunbeachmotel.net](http://www.sunbeachmotel.net)

**OLIVER, BC.** Level entry kitchenette suite, \$550-\$650/mo. Incl. parking, utilities, TV, smoke/fragrance free. Call 250-498-0119.

**VACATION ACCOMMODATIONS 6245**

**SUN BEACH MOTEL,** 1 bdrm suite, \$685, 2 bdrm starting at \$850. 250-495-7766, Osoyoos, BC. [www.sunbeachmotel.net](http://www.sunbeachmotel.net)

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CY	Product (Dry)	Gde	\$/mt	c/lb
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15	Large Green	2C	1,150	52.16
		X3C	1,060	48.08
		3C	1,000	45.36
15	Medium Green	2C	1,100	49.90
		X3C	1,000	45.36
15	Small Green	1C	1,050	47.63
		2C	950	43.09
15	Small Red	2C	1,110	50.35
		X3C	950	43.09
		3C	800	36.29
16	*Extra Small Red	2C	840	38.10
16	*Large Green	1C	885	40.14
		2C	840	38.10
16	*Medium Green	1C	850	38.56
		2C	800	36.29
16	*Small Red	2C	840	38.10

Prices subject sample approval, 1% elevation and change without notice. \* 2016 Crop with Act of God clause.

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CERT. CDC AMARILLO, CDC Greenwater, exc germ. and disease. Fraser Farms, Pamburn, SK., 306-741-0475. [foc@sasktel.net](mailto:foc@sasktel.net)

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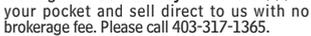
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**FARM/RANCH 8016**

LARGE YEARLING COW/Calf Operation requires full-time working Foreman. Aggressive wages. Duties include: Herd health, rotational grazing, operation and maintenance of modern equipment, calving, and management of staff. Additional attributes: 1A, welding, seeding experience. Renovated family home on-site. Call Scott, 306-536-2157, Indian Head, SK.

2 SEASONAL FARM MACHINERY operators required. Must be able to operate grain cart, tandem grain truck, FWA tractor w/rockpicker, 4WD tractor for harrowing. Also manual labour for upkeep of leafcutter bees and general servicing of equipment. May 1 to October 31. \$15-\$18/hr. 101008187 SK Ltd., 303 Frontier Trail, Box 372, Wadena, SK., S0A 4J0. Fax: 306-338-3733, phone: 306-338-7561, or email: cfehr9860@hotmail.com

CALVING HELP NEEDED for a purebred cattle operation located at Marwayne, AB. from Dec.- April 1. We calve out 100 purebred cows from Jan. 1 - Mar. 15. Experience is a must. 306-307-0055, 780-214-2273. www.familytiesangus.com

FARMING RANCHING OPERATION Seeking experienced worker to operate farm equipment and handle cattle. Mechanical ability preferred. Housing provided. Resume, references and criminal record check required. Wages negotiable. Trevor: 403-575-5237, tdeagle@live.ca

FARM/RANCH HAND FULL-TIME. Duties include feeding cows, calving, doctoring. Operate and maintain a good line of farm equipment for seeding, haying and harvest. Work independently and experience necessary. Start immediately. 403-566-2341.

FULL TIME GRAIN FARM EMPLOYMENT: Delage Farms Ltd. at Indian Head, SK. is looking for motivated, experienced and team orientated employees who are interested in working full-time for a progressive grain farm. The farm strives towards reaching high yields by introducing innovation and improving efficiency within a team atmosphere. Duties include, but are not limited to: spraying, grain hauling, grain cart operation, combining and general farm labour. 1A Licence is encouraged but not necessary. Fax your resume: 306-695-2608, or call Marc at: 306-660-7802.

GRAZING MANAGER WITH experience and education in Managed Intensive Grazing required for ranch NW of Edmonton AB. Duties include calving, grass management, water maintenance, animal health, fencing and record keeping. Wages \$23-\$28/hr. Apply to: South Seven Ranches, Cherhill, AB., 780-674-0148.

2 FULL-TIME HERDSMAN (NOC 8253) positions on large mixed farm. Wages \$16-\$19/hr., depending on experience. Individual should have good work ethic, positive attitude, mechanical skills and be able to work well with others. Duties include: Working cattle; Operating and maintaining farm equipment. Must have farm background. Furnished housing with utilities avail. for \$500/mo., non-smoking environment. Fax: 306-264-3752. Phone: 306-264-7742, Spruce Meadow Farms, Box 186, Kincaid, SK. S0H 2J0

FULL-TIME PERMANENT GENERAL farm worker needed for SRRB Enterprise Inc. Located in SW-7-80-20-W5, Box 909, Falher, AB. TOH 1M0 Start date: a.s.a.p. **Business Information:** we are a grain farm, we do all farming practices from seeding to harvest. **Main duties include:** plant, cultivate crops; harvest crops; operate and maintain farm machinery and equipment. Education: none required; experience is an asset. **Salary:** \$19-\$21/hour, 40-80 hours/week. **Important information:** shift 7 a.m. to 7 p.m., may vary according to business needs. Apply by email to: srrbinc@hotmail.com or mail to: P.O. Box 909, Falher, AB. TOH 1M0

FULL-TIME CATTLE CHECKING Positions. Buffalo Plains Cattle Co. has pen checking positions available for our expanding feedlot with new facilities. Job also includes pasture work in the summer. Owned horses and tack preferred. No green horses allowed. Competitive salary and group benefits. Fax resume to 306-638-3150, or for more info. ph Kristen at 306-631-8769, Bethune, SK.

ALTHOUSE HONEY FARMS, INC. 1/2 mile south Porcupine Plain, SK. 7 positions required for 2016 season, May to Oct. Wages \$14-\$18/hr. depending upon experience. Job duties: assisting in spring hive inspection, unwrapping, and splitting, supering, building supers and honey frames, honey removal and extracting, fall feeding, applying mite control and wrapping hives for winter. No education required. WCB coverage. Ph. Ron Althouse 306-278-7345, email: althousehoney@sasktel.net

HELP WANTED for cattle and grain operation. Monthly or hourly wage. Seeking self-motivated person, potential for year round work. 306-795-2710, Goodeve, SK.

FARM LABOURER REQUIRED for livestock operation, RM of Minotons. Requirements: Grade 12, driver's license, skill set to work with horses and farm equipment, good communication skills, ability to work as a team. Duties include: all aspects of general farm work and feeding program for horses; operating and maintaining of seeding and harvesting equipment. Must be able to speak English. Smoke free environment. \$17/hr. Housing available. Lyle Lumax 204-525-2263, Box 1989, Swan River, MB. R0L 1Z0. carolylefarms@hotmail.com

**FARM/RANCH 8016**

FARM/RANCH HAND. A purebred and commercial beef cattle operation north of Calgary offers a position for full-time permanent employment. Duties will include feeding, calving, general cattle handling and hauling of livestock as well as operation of farm equipment and farm equipment maintenance. Previous experience in these areas is a requirement for this position as well as ability to work well with other employees. A strong interest in the primary agriculture sector is essential. References are required and must indicate competence in the duties outlined. Salary is negotiable based on experience, knowledge, skill and references. Housing is available if needed. Phone 403-852-9350 or 403-852-9274.

HELP WANTED ON farm and ranch. Experience preferred. Wages based on experience. Room and board possible. No texts. Please call 403-350-4089, Red Deer, AB.

DAIRY HERDSPERSON. WHITE Gold Dairy Farm Ltd. is seeking 2-full time team players. Milking, livestock work, skidsteer work. 2 yrs dairy experience. Farm located 3 kms W of Millet, AB. \$20/hr. No housing. Email resume to: whitgolddairy@gmail.com 780-387-8333.

FULL-TIME FARM LABOURER HELP. Applicants should have previous farm experience and mechanical ability. Duties include operation of machinery, including tractors and other farm equip., as well as general farm laborer duties. \$25/hour depending on experience. Must be able to cross US border. Location: Pierson, MB/Gainsborough, SK. Feland Bros. Farms, Greg Feland and Wade Feland, Box 284, Pierson, MB. R0M 1S0. 701-756-6954.

EXPERIENCED PASTURE RIDER needed for Medicine Lake Grazing Reserve by Winfield, AB. Must be reliable and self-motivated, with organizational skills. Must be a skilled roper and supply own pasture horses. Will also look after water systems, so mechanical experience required, must practice low stress handling of cattle and have grass management experience. Employment is April to October yearly. Year-round housing can be provided. Send resume to: cvranch@xplornet.com or phone 780-621-0981 or 403-350-0614 for more info. Only successful applicants will be contacted for an interview. Applications close December 31, 2015.

**HELP WANTED 8024**

**GRATTON COULEE AGRI PARTS LTD.**  
 Is a progressive, expanding agricultural salvage parts company specializing in late model tractor and combine parts and located at Irma, Alberta.

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 To apply for a position with us, please e-mail resume to: marc@gcparts.com or send fax to 780-754-2333  
 Attention: Alvin Wannechko

ALTA GENETICS INC. Herdsperson is needed for our production team at our Calgary, AB. location. Applicants should have strong livestock handling and husbandry skills with an ability to perform general maintenance duties. Housing may be provided. Please submit resume to our Human Resources Dept, Attention: Erica Habenei, erica.habenei@altagenetics.com

MEIJER HONEYFARM is looking for applicants for the 2016 season. 8 Apiary Technicians: NOC 8253 required with minimum two years (seasons) experience at a large scale Canadian beekeeping operation. Job duties per NOC 8253. Wages start at \$14/hour (or current wage according to NOC code). We also require 9 Apiary workers: NOC 8431 with minimum one year beekeeping experience. Wages start at \$13/hour (or current wage according to NOC code). Job duties as per NOC 8431. All positions are full time on a seasonal basis from March through October and can expect minimum 40 hours/week. All wages are negotiable depending on experience. All applicants must be physically fit and accustomed to working with honeybees. Apply to: m@magtech.ca Meijer Honeyfarm, 181072 Twp. Rd. 32-4, Box 295, Delia, AB. T0J 0W0

**TRADES/TECHNICAL 8044**

WANTED: JOURNEYMAN MACHINIST to provide 400 training hours for 4th year Machining Apprentice, willing to work full-time, valid driver's license, will provide resume upon request. Call 306-730-8014.

**TRUCK DRIVERS 8046**

DRIVERS WANTED/ Owner Operator. H. S. Knill Co. Ltd. Long haul- USA/Western Canada/Ontario/Quebec. Livestock handling experience an asset. Able to cross border. Send a resume and driver's abstract to email: hsknill@pppoe.ca Fax: 519-442-1122.

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 Agricultural Background and Computer Experience Would Be An Asset.  
 Full-Time Position, \$15 to \$20 per hour. Benefits, (after 6 month period).  
**Please Forward Resumes to Marc at Graton Coulee Agri Parts Ltd., Box 41, Irma, AB T0B 2H0 or Send Fax to 780-754-2333.**

**HELP WANTED 8024**

COMMUNITY PASTURE MANAGER The Association of Manitoba Community Pastures is seeking to fill Pasture Managers' positions at the Cote-San Clara, north of Roblin, MB. and near Togo, SK. and the Dauphin-Ethelbert Community Pastures, Ethelbert, MB. These are full-time term positions running from March to Nov. each year. Duties would include managing the day to day operations of the community pastures and its staff. Applicant must have significant cattle experience. Experience treating cattle from horseback is required and ability to supply your own horses and tack. Other duties include repair and maintenance of fences and other infrastructure. Accommodations available to rent. Please apply by December 18, 2015. For more info contact Barry Ross: 204-841-1907, email: amcp@pastures.ca

WANTED LABOURER/MEAT WRAPPER for a permanent, full-time position at an Abattoir/Processors, outside of Souris, SW Manitoba. Duties include: assisting on the slaughter floor; wrapping, packaging and cutting of meat products; and operation, maintenance and cleaning of tools/equip. Requirements: self-motivation, willing to learn, team player and reliable. Wage: \$13/hr. for 40 hrs./week. Benefits: available after 3 months of employment. Mail/email resume: Prairie Rose Meat Ltd. Box 1349 Souris, MB. R0K 2C0. 204-483-2765, email: mark@hbni.net

**MANAGEMENT 8025**

GRAIN FARM MANAGER required for approx. 4500 acre grain farm in Battleford, SK. area. Email kclewis@telus.net

**PROFESSIONAL 8032**

**WANTED CORPORATE/COMMERCIAL LAWYER FOR KAMLOOPS LAW FIRM**  
*Are you a farm kid who's become a lawyer? Do you want to get out of the big city?*  
 Sole practitioner with busy commercial real estate, corporate commercial practice, agriculture industry speciality in beautiful Kamloops BC, looking for associate. Objective is eventual partnership and succession.  
 To apply, please submit your resume with references to **Mary MacGregor Law Corporation** 975 Victoria Street, Kamloops BC V2C 2C1 Attention: Mary MacGregor, Q.C.  
 Ideal candidate will have:  
 • agriculture industry background  
 • demonstrated academic and intellectual ability  
 • helpful, practical, fair-minded disposition  
 • several years of corporate commercial; commercial real estate; development and/or transactions experience.  
 Please submit application by **January 31, 2016.**

**SALES/MARKETING 8040**

SALES AGENTS REQUIRED. Are you outgoing and desire job flexibility for a work/family balance? We have an opportunity for you. 100% outside sales, home based, commission with incentives. Our successful Agents are from backgrounds such as: Farmers, Business Owners, Sales Representatives. **PowerRich** was formed in 1984 as a family owned business. The main market for PowerRich products is farmers. If interested, we'd like to talk to you. Call or email: Greg Grant, General Sales Manager, Power Rich Fertilizers, 1-800-491-8984. greg@powerrich.com

SALES AGENTS REQUIRED. Are you outgoing and desire job flexibility for a work/family balance? We have an opportunity for you. 100% outside sales, home based, commission with incentives. Our successful Agents are from backgrounds such as: Farmers, Business Owners, Sales Representatives. **PowerRich** was formed in 1984 as a family owned business. The main market for PowerRich products is farmers. If interested, we'd like to talk to you. Call or email: Greg Grant, General Sales Manager, Power Rich Fertilizers, 1-800-491-8984. greg@powerrich.com

**EMPLOYMENT WANTED 8050**

WORKERS AVAILABLE: GENERAL, seasonal, supervisors, herdsman, equip. operators. Call for details. 306-260-9546. ILcaga.ca

FARM BOY FOR HIRE, experienced in: welding, calving, feeding and farm machinery. Call 780-864-9868, Stettler, AB.

**SALES/MARKETING 8040**

SALES AGENTS REQUIRED. Are you outgoing and desire job flexibility for a work/family balance? We have an opportunity for you. 100% outside sales, home based, commission with incentives. Our successful Agents are from backgrounds such as: Farmers, Business Owners, Sales Representatives. **PowerRich** was formed in 1984 as a family owned business. The main market for PowerRich products is farmers. If interested, we'd like to talk to you. Call or email: Greg Grant, General Sales

## SAFETY AWARENESS CAMPAIGN



The Shock Trauma Air Rescue Society and Ornge air ambulance services performed a mock demonstration of a snowmobile accident at the STARS air hangar in Saskatoon Dec. 8. The organizations are raising awareness of snowmobile safety in an effort to reduce snowmobile related injuries and fatalities in Canada this winter. It also marks the first time two air ambulance services have jointly promoted safe riding. | WILLIAM DEKAY PHOTO

## GLOBAL WARMING

## Tackling a taboo: climate activists take tender approach on meat production

Suggestions of reducing meat consumption to reduce greenhouse gas emissions can cause anger

PARIS, France (Reuters) — Many people who believe in climate change would be furious if someone tried to take away their steak.

That's why activists at this year's United Nations climate summit in Paris are taking a gentle approach to tackling the world's greenhouse gas-intensive love affair with meat, ranging from offering lookalike plant burgers to suggesting a gradual weaning off animal protein.

"This is one of the most delicate issues with climate protection because we all have our habits, and diet is something quite holy for some people, not to be meddled with," said Jo Leinen, an omnivorous German member of the European Parliament.

Negotiators from nearly 200 countries are focused mainly on reducing carbon dioxide output from industry to limit global warming, rather than on diet.

According to the UN Food and

Agriculture Organization, the livestock sector is responsible for 14.5 percent of global greenhouse gas emissions caused by human activities. Other studies report lower amounts, such as a 2009 study from the University of California at Davis that credited livestock production with three percent of greenhouse gas emissions. Nevertheless, livestock is often an easy target for emission reductions.

On the sidelines of the summit, one American firm proposed an answer in the form of its "Impossible Burger," Made entirely from plants, the patty is intended to look and taste identical to beef and produces a similar smell when grilled.

Impossible Foods founder Pat Brown said the burger, which costs about \$5 a pound to produce but should become cheaper, would help many Americans give up meat.

The company is partly funded by

Khosla Ventures, Bill Gates and Google Ventures. Google co-founder Sergey Brin previously helped fund a \$300,000 beef burger created in a test tube at Maastricht University in the Netherlands in 2013.

Elsewhere, a delegation from the Buddhist Tzu Chi Foundation was attempting to promote Jan. 11, 2016, as a Day of Meatlessness.

"It is just one day, but it will help people think about the environmental, ethical and health issues around meat, and maybe it will grow," said volunteer Lori Chen.

It is often a question of social norms.

"In France, they take offence if you don't eat meat, like you are rejecting their culture," said Chen.

"In China, you are emasculated if you only eat plants," added Hanford Lin, who works for the foundation's fundraising arm.

One person at the conference who is decidedly not emasculated

— actor, bodybuilder and former California governor Arnold Schwarzenegger.

"I have seen many bodybuilders and lifters who are vegetarians and get strong and healthy," he said. "I think it is a good idea, but ... you have to start slowly, you can't just convince people to stop eating meat altogether."

However, meat consumption continues to rise in the United States, China and elsewhere despite health warnings, most recently a World Health Organization report that found eating too much processed or red meat increased the risk of developing cancer.

The British think-tank Chatham House said merely applying existing recommendations from health bodies to limit meat consumption would generate a quarter of the remaining emissions reductions needed to keep global warming below 2 C, a key target of the Paris talks.

## AG NOTES

### PRODUCERS, CUSTOMERS DISCUSS WHEAT CROP

Customers of Canadian wheat recently met with the Canadian International Grains Institute, the Canadian Grain Commission, Cereals Canada, exporters and producers from Alberta, Manitoba, Saskatchewan and Ontario.

This was the second year that new crop seminars were presented to customers for the benefit of the value chain from producers

to end users.

Discussion included quality attributes of the 2015 wheat crop, Canadian supply and demand, grading factors, quality assurance, wheat class changes and factors that affect crop selection, quality control and sustainable production.

The seminars give customers an opportunity to provide information directly to Canadian farmers, Canada's research community and private crop development companies.

### WHEAT GROWERS ANNOUNCE NEW EXECUTIVE DIRECTOR

Robin Speer is the new executive director of the Western Canadian Wheat Growers.

Speer is originally from North Battleford, Sask., and her previous experience includes serving as manager of government and commercial relations at Viterra and vice-president of public affairs at the Canadian Renewable Fuels Association.

He has also worked in policy-making on Parliament Hill in Ottawa and the Saskatchewan Legislature in Regina and as a government relations and public policy professional in the agriculture industry.

Speer will collaborate with other agricultural organizations, industry partners and governments.

The association's administration and operations will be consolidated in Saskatoon by next summer.

## ANTIBIOTIC RESISTANCE

## Britain calls for reduction in livestock antibiotics

LONDON, U.K. (Reuters) — Massive use of antibiotics in farming poses a critical threat to global public health and should be reduced dramatically to an internationally agreed target, says a British government-commissioned review.

Agreeing on and implementing a global target for agricultural antibiotic use won't be easy, said the review, led by former Goldman Sachs chief economist Jim O'Neill, but it is vital if life-saving medicines designed to fight bacterial infections are to be kept effective, both for animals and for people.

The review suggested that following examples of Denmark and the Netherlands could make a swift, significant difference.

Denmark has an average of less than 50 milligrams of antibiotics used a year per kilogram of livestock, which O'Neill said "may be a good starting point for such a target."

"Denmark has shown that a very productive farming industry can be sustained alongside relatively low levels of antibiotic use," the review said.

O'Neill, who presented his review at a briefing in London, said he found it "staggering" that in many countries most of the use of antibiotics is in animals rather than in humans.

He noted, for example, that in the United States, more than 70 percent of the use of medically important antibiotics is in animals, with only 30 percent in humans.

"This creates a big resistance risk for everyone," he said.

"It's time for policy makers to act on this."

Any use of antibiotics promotes the development and spread of multi-drug-resistant infections that can evade the medicines designed to kill them.

British prime minister David Cameron asked O'Neill last year to conduct a full review of the problem and suggest ways to combat it. In his initial report, he estimated antibiotic and microbial resistance could kill an extra 10 million people a year and cost up to \$100 trillion by 2050 if it is not brought under control.

International alarm about the antibiotic resistance threat is rising after the discovery in China of a gene called mcr-1 that makes bacteria resistant to all known antibiotics.

Resistant published research said mcr-1 had also been found in bacteria samples in Denmark, suggesting it is already spreading around the world.

Jeremy Farrar, an infectious disease expert and director of the Wellcome Trust health charity, said urgent action is needed.

"We can now be certain that the health of livestock animals, and how we care for them, is inextricably linked to our own health and the effectiveness of medicines we rely on every day," he said.

"We need international governments, policy makers and the agricultural industry to co-ordinate their actions and set tangible targets for the reduction and better use of antibiotics in animals."

# 2015 Canadian Western Agribition

## SPECIAL TO THE

### PUREBRED RBC BEEF SUPREME

SUPREME CHAMPION FEMALE..... McLeod Livestock, Cochrane, AB  
 SUPREME CHAMPION BULL..... Poplar Meadows Angus, Houston, BC

### FIRST LADY CLASSIC FUTURITY

GRAND CHAMPION AND RESERVE GRAND FIRST LADY ..... Harvest Angus, Prince George, BC

### FIRST LADY CLASSIC

GRAND CHAMPION..... Wheatland Cattle Co., Bienfait, SK

### PRESIDENT'S CLASSIC

GRAND CHAMPION BULL..... Brooking Angus Ranch, Radville, SK

### BLACK ANGUS

GRAND CHAMPION FEMALE..... Blairwest Land and Cattle, Drake, SK  
 Additional Owner: Blairs.Ag Cattle Co.

RESERVE GRAND CHAMPION FEMALE..... Remitall Farms Inc., Olds, AB

GRAND CHAMPION BULL..... Young Dale Angus, Carievale, SK

RESERVE GRAND CHAMPION BULL..... Poplar Meadows Angus, Houston, BC

### RED ANGUS

GRAND CHAMPION FEMALE..... Ter-Ron Farms, Forestburg, AB

RESERVE GRAND CHAMPION FEMALE..... Rainbow Red Angus, Cherhill, AB

GRAND CHAMPION BULL..... Wood Coulee Cattle, Swift Current, SK

RESERVE GRAND CHAMPION BULL..... Blairs.Ag Cattle Co., Lanigan, SK  
 Additional Owner: Jeff Keller

### CHAROLAIS

GRAND CHAMPION FEMALE..... McLeod Livestock, Cochrane, AB

RESERVE GRAND CHAMPION FEMALE..... Cay's Cattle, Kinistino, SK

Additional Owner: Prairie Cove Charolais

GRAND CHAMPION BULL..... McLeod Livestock, Cochrane, AB

Additional Owner: Silver Spur Land & Cattle

Additional Owner: Sunrise Charolais

RESERVE GRAND CHAMPION BULL..... Serhienko Cattle Co., Maymont, SK

### GELBVIEH

GRAND CHAMPION FEMALE..... McLeod Livestock, Cochrane, AB

Additional Owner: Silver Spur Land & Cattle

Additional Owner: Sunrise Charolais

RESERVE GRAND CHAMPION FEMALE..... Serhienko Cattle Co., Maymont, SK

GRAND CHAMPION BULL..... Davidson Gelbvieh, Ponteix, SK

RESERVE GRAND CHAMPION BULL..... Fladeland Livestock, Gladmar, SK

### HORNED HEREFORD

GRAND CHAMPION FEMALE..... Roe Livestock, Filer, ID

Additional Owner: Caitlyn Roe

Additional Owner: Hirsche Herefords & Angus Ltd.

RESERVE GRAND CHAMPION FEMALE..... Triple A Herefords, Moose Jaw, SK

GRAND CHAMPION BULL..... Triple A Herefords, Moose Jaw, SK

RESERVE GRAND CHAMPION BULL..... Big Gully Farm, Maidstone, SK

### POLLED HEREFORD

GRAND CHAMPION FEMALE..... Elmlodge Polled Herefords, Indian River, ON

Additional Owner: Tay Down Herefords

RESERVE GRAND CHAMPION FEMALE..... Blairs.Ag Cattle Co., Lanigan, SK

GRAND CHAMPION BULL..... Haroldsons Polled Herefords, Wawota, SK

Additional Owner: Wascana Cattle Company

RESERVE GRAND CHAMPION BULL..... Cayley Cattle Co., Princeton, BC

Additional Owner: Shar-Lo Farms

Additional Owner: Wyatt Farms

### LIMOUSIN

GRAND CHAMPION FEMALE..... Greenwood, Lloydminster, SK

RESERVE GRAND CHAMPION FEMALE..... Pinnacle View Limousin, Quesnel, BC

Additional Owner: Austin Fisk

GRAND CHAMPION BULL..... Cottage Lake Livestock, Stony Plain, AB

Additional Owner: Boss Cattle

Additional Owner: Skull Creek Ranches

RESERVE GRAND CHAMPION BULL..... B Bar Cattle, Lucky Lake, SK

Additional Owner: Franseen Limousin, WI

Additional Owner: Grand Meadow Farms, WI

Additional Owner: Peterson Limousin, WI

Additional Owner: Clark Cattle, ON

Additional Owner: Mandayen Limousin, Australia

### MAINE ANJOU

GRAND CHAMPION FEMALE..... Rawluk Livestock, Moosehorn, MB

Additional Owner: Ashley Schmidt

RESERVE GRAND CHAMPION FEMALE..... Lightning Strike Cattle Co., Grenfell, SK

GRAND CHAMPION MALE..... Hansen Livestock, Weldon, SK

RESERVE GRAND CHAMPION MALE..... Rusylvia Cattle Co., Derwent, AB

### SHORTHORN

GRAND CHAMPION FEMALE..... JT Livestock, Stettler, AB

Additional Owner: Pinch Hill Cattle Co

RESERVE GRAND CHAMPION FEMALE..... Dixon Farms, Vermilion, AB

Additional Owner: Sweetgrass Shorthorns

GRAND CHAMPION BULL..... Bell M Farms, Englefeld, SK

RESERVE GRAND CHAMPION BULL..... Anwender Cattle Co., Radville, SK

Additional Owner: Maple Lake Stock Farms

### SIMMENTAL

GRAND CHAMPION FEMALE..... Mader Ranches, Carstairs, AB

Additional Owner: CanadianDonors.com

Additional Owner: Rust Mountain View Ranch

RESERVE GRAND CHAMPION FEMALE..... Wheatland Cattle Co., Bienfait, SK

GRAND CHAMPION BULL..... High Country Cattle Services, Breton, AB

Additional Owner: Rob & Deanne Young

Additional Owner: Ron & Shelley Reich

RESERVE GRAND CHAMPION BULL..... Wheatland Cattle Co., Bienfait, SK

### SPECKLE PARK

GRAND CHAMPION FEMALE..... Colgan's Cattle Company, Lashburn, SK

RESERVE GRAND CHAMPION FEMALE..... Johner Stock Farm, Maidstone, SK

GRAND CHAMPION BULL..... Johner Stock Farm, Maidstone, SK

Additional Owner: HS Land & Cattle Co.

RESERVE GRAND CHAMPION BULL..... Goodfellow, Jason, Neilburg, SK

Additional Owner: Rick Goulet

### PROSPECT STEER & HEIFER

GRAND CHAMPION PROSPECT HEIFER..... Archdekin, Mandy Rowland & Brennon, Pangman, SK

RESERVE GRAND CHAMPION PROSPECT HEIFER..... Anderson Cattle, Bethune, SK

GRAND CHAMPION PROSPECT STEER..... Rasmuson Cattle, Midale, SK

Additional Owner: Alastair Burnett

RESERVE GRAND CHAMPION PROSPECT STEER..... Gutzke, Brodie, Weyburn, SK

### COMMERCIAL CATTLE

GRAND CHAMPION PEN OF BRED REPLACEMENT HEIFERS..... Westman, Murray, Vermilion, AB

RESERVE GRAND CHAMPION PEN OF BRED REPLACEMENT HEIFERS..... Raymond Land & Cattle Ltd. Aneroid, SK

GRAND CHAMPION PEN OF OPEN REPLACEMENT HEIFERS..... Andrew, Reed, Regina, SK

RESERVE GRAND CHAMPION PEN OF OPEN REPLACEMENT HEIFERS..... Three Star Simmentals, Weyburn, SK

# Grand and Reserve Grand Champions

## WESTERN PRODUCER

CANADIAN WESTERN  
**Agribition**

### **BULL PEN ALLEY**

GRAND CHAMPION PEN OF BULLS ..... McIntosh Livestock, Maymont, SK  
RESERVE GRAND CHAMPION PEN OF BULLS ..... HBH Farm Inc., Rivers, MB

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GRAND CHAMPION PUREBRED BOER GOAT BUCK ..... SLF Ranch, Edgerton, AB  
RESERVE GRAND CHAMPION PUREBRED BOER GOAT BUCK ..... Calico Creek Goats, Yorkton, SK  
GRAND CHAMPION PUREBRED BOER GOAT DOE ..... O'Donnell, Kerry, Calder, SK  
RESERVE GRAND CHAMPION PUREBRED BOER GOAT DOE ..... O'Donnell, Kerry, Calder, SK  
GRAND CHAMPION PERCENTAGE BOER GOAT DOE ..... Calico Creek Goats, Yorkton, SK  
RESERVE GRAND CHAMPION PERCENTAGE BOER GOAT DOE ..... Calico Creek Goats, Yorkton, SK  
GRAND CHAMPION ALL OTHER PUREBRED DAIRY GOAT BUCK ..... Winsannie, Davin, SK  
RESERVE GRAND CHAMPION ALL OTHER PUREBRED DAIRY GOAT BUCK ..... Platinum Livestock, Davin, SK  
GRAND CHAMPION ALL OTHER PUREBRED DAIRY GOAT DOE ..... Winsannie, Davin, SK  
RESERVE GRAND CHAMPION ALL OTHER PUREBRED DAIRY GOAT DOE ..... Platinum Livestock, Davin, SK  
GRAND CHAMPION LA MANCHA DAIRY GOAT BUCK ..... Triple C Farms, Sifton, MB  
RESERVE GRAND CHAMPION LA MANCHA DAIRY GOAT BUCK ..... Masson, Charli, Petersfield, MB  
GRAND CHAMPION LA MANCHA DAIRY GOAT DOE ..... Triple C Farms, Sifton, MB  
RESERVE GRAND CHAMPION LA MANCHA DAIRY GOAT DOE ..... Triple C Farms, Sifton, MB  
GRAND CHAMPION AND RESERVE GRAND CHAMPION  
PERCENTAGE DAIRY GOAT DOE ..... Platinum Livestock, Davin, SK  
GRAND CHAMPION COMMERCIAL DOE ..... Calico Creek Goats, Yorkton, SK  
RESERVE GRAND CHAMPION COMMERCIAL DOE ..... Calico Creek Goats, Yorkton, SK  
GRAND CHAMPION MARKET KID ..... Bundy Livestock, Balcarres, SK  
RESERVE GRAND CHAMPION MARKET KID ..... Bundy Livestock, Balcarres, SK

### **SSBA SHEEP SHOW** **CANADIAN ARCOTT**

GRAND CHAMPION EWE ..... Braebank Stock Farm, Pilger, SK  
RESERVE GRAND CHAMPION EWE ..... The Govan Ranch, Englefeld, SK  
GRAND CHAMPION RAM ..... Braebank Stock Farm, Pilger, SK  
RESERVE GRAND CHAMPION RAM ..... The Govan Ranch, Englefeld, SK

### **DORSET**

GRAND CHAMPION EWE ..... Prairie Rose Dorsets, Drake, SK  
RESERVE GRAND CHAMPION EWE ..... Braebank Stock Farm, Pilger, SK  
RESERVE GRAND CHAMPION RAM ..... Furze Farms Ltd., Maryfield, SK  
RESERVE GRAND CHAMPION RAM ..... Lewis, John, Sarah, and Bethan, Kirkella, MB

### **KATAHDIN**

GRAND CHAMPION EWE ..... Mish Katahdins, Glenavon, SK  
RESERVE GRAND CHAMPION EWE ..... Mish Katahdins, Glenavon, SK  
GRAND CHAMPION RAM ..... Mish Katahdins, Glenavon, SK  
RESERVE GRAND CHAMPION RAM ..... Mish Katahdins, Glenavon, SK

### **SUFFOLK**

GRAND CHAMPION EWE ..... Furze Farms Ltd., Maryfield, SK  
RESERVE GRAND CHAMPION EWE ..... Flying F Ranch, Weyburn, SK  
GRAND CHAMPION RAM ..... Rocking S Ranch, Nokomis, SK  
RESERVE GRAND CHAMPION RAM ..... Rocking S Ranch, Nokomis, SK

### **ANY OTHER BREED**

GRAND CHAMPION EWE ..... Double Bar D Farms, Grenfell, SK  
RESERVE GRAND CHAMPION EWE ..... The Govan Ranch, Englefeld, SK  
GRAND CHAMPION RAM ..... The Govan Ranch, Englefeld, SK  
RESERVE GRAND CHAMPION RAM ..... Georgella Farms, Southey, SK

### **COMMERCIAL SHEEP SHOW**

GRAND CHAMPION SINGLE COMMERCIAL EWE ..... The Govan Ranch, Englefeld, SK  
RESERVE GRAND CHAMPION SINGLE COMMERCIAL EWE ..... Wiens, Clinton, Drake, SK  
GRAND CHAMPION PEN OF COMMERCIAL EWES ..... MacDougall, Kim & Diane, Regina, SK  
RESERVE GRAND CHAMPION PEN OF COMMERCIAL EWES ..... Double L Farms, Fox Valley, SK

### **HORSE PULLS**

HEAVYWEIGHT ..... Amos & Barney – Scott Skinkis, Brillion, WI  
MIDDLE WEIGHT ..... Max & Nic – Kim Hewalo, Pilot Butte, SK  
LIGHT WEIGHT ..... Buster & Digger – Ron Sebastian, Lumsden, SK

### **CHORE TEAM EVENTS**

CHORE TEAM COMPETITION ..... Chris Bertram, Climax, SK  
FEED TEAM RACE ..... Kristina Just, Yorkton, SK  
WATER BARREL RACE ..... Lloyd Smith, Pelly, SK

### **RANCH HORSE**

1st ..... Drylittledually - Michael Belof, White City, SK  
2nd ..... Jessie James Dot - Michael Belof, White City, SK

### **STOCK DOG**

1st ..... Steven Rosovold with Dog Bell  
2nd ..... Campbell Forsyth with Dog Meg

### **BISON**

GRAND CHAMPION FEMALE ..... Silver Creek Bison  
GRAND CHAMPION BULL ..... Sandy Busche

### **CANADIAN JUNIOR BEEF EXTREME**

CHAMPION ..... Nolan Blair, Drake, SK

### **TEAM GROOMING**

SENIOR TEAM CHAMPION ..... Billy Paul, High River, AB  
INTERMEDIATE TEAM CHAMPION ..... Jacey Fellner, Rylan Knupp, Ryley Croal, Weyburn, SK  
JUNIOR TEAM CHAMPION ..... Kylie Willms, Dundurn, SK

### **YOUTH SHOWMANSHIP**

JUNIOR SHOWMAN (9-12 YEARS) CHAMPION ..... Kriselly Webber, Midale, SK  
INTERMEDIATE SHOWMAN (13-15 YEARS) CHAMPION ..... Jacey Massey, Strathmore, AB  
SENIOR SHOWMAN (16-21 YEARS) CHAMPION ..... Brittany Hunt, Rose Valley, SK

### **CANADIAN NATIONAL** **4-H AND YOUTH JUDGING COMPETITION**

GRAND AGGREGATE ..... Cassandra Gorrill representing 4-H Ontario

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# PRODUCTION

## TABLET CONTROLS FOR SEEDER AND FARMER

SeedMaster's new cab interface puts more than just machine in farmers' hands. | **Page 62**



PRODUCTION EDITOR: MICHAEL RAINE | Ph: 306-665-3592 F: 306-934-2401 | E-MAIL: MICHAEL.RAINE@PRODUCER.COM

CROP PROTECTION

## Helicopter drone gets a tank full

Remote controlled aircraft straps on a bottle of chemical and gets into the business of pesticide application

BY MICHAEL RAINE  
SASKATOON NEWSROOM

A remote controlled aircraft maker from China has stepped into small agriculture in a big way.

DJI is taking orders in China for a battery powered, eight-motor helicopter with a 2.6 gallon spray tank.

The company said the drone can cover about 10 acres an hour at low water rates, even with four battery changes per hour.

The Agras MG-1 takes advantage of DJI's experience in flight controllers and precision guidance systems to provide centimetre-level accuracy, company founder Frank Wang said in an email.

The helicopter uses a form of radar to keep itself at a constant distance from the crop or intended target weeds, while GPS based mapping helps determine the right location for application.

The unit maintains as-applied maps, even through battery changes, and is capable of variable rate application based on actual ground speed.

It is selling in China for US\$15,000.

The company claims the Agras is 40 times more efficient than farm workers applying pesticides from a backpack sprayer.



The Agras MG1 is a battery powered, eight-motor helicopter with a 2.6 gallon spray tank that rinses clean after use. | DJI PHOTO

While it is aimed at smaller-scale agriculture, DJI said the drone's ability to target pest problems and control them in small areas could also make it valuable on larger farms.

The helicopter has four ceramic nozzles, but the specifications on those are not yet available. Four pumps run from the rotor motors on which they are mounted.

The downdraft from the rotors

helps ensure the spray reaches the target, the company said.

Cooling for the motors and batteries comes through the tubular frame. Air is drawn in through three sets of filters at the unit's core and sent to the motors, which keeps spray and dust out of the power units.

Operators can let the software fly an application map and take care of the spraying. However, there are

also semi-automatic and fully manual modes, one allowing for autonomous flying and manual application and the other letting the operator do it all.

Wang said the company hopes to show it can provide equipment beyond the hobbyist level that can benefit industries such as agriculture.

DJI said it plans to soon take orders in South Korea as well as

China, but has no firm dates outside of those markets. However, it said it eventually intends to market the new helicopter in other parts of the world.

The company has also partnered with U.S. company FLIR to develop a new, lower cost thermal imaging system for small aerial vehicles for agriculture and forestry.

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MACHINERY

## Case IH automation focus designed to improve efficiency

Company's precision agriculture tools include driverless equipment

BY MICHAEL RAINE  
SASKATOON NEWSROOM

HANNOVER, Germany — One of the world's largest agricultural brands is focusing on providing precision tools with its products.

Case IH president Andreas Klauser told a meeting in Hannover last month that the company is planning rapid moves to greater automation.

Mathew Foster, with the company's European agriculture segment, said Case is planning to accommodate greater use of technology.

"Today we are looking for single-machine management: guidance, application control, yield monitoring, machine control for implements. Today we are looking at telematics and data management," he said.

"The future is automation and automation."

He said farmers are starting to consider using telematics to manage farms rather than just fields, such as driverless equipment and intelligent automation.

He said the company is working with farmers to find ways to do this "safely and efficiently, especially when it comes to repetitive tasks."

Guidance technology has helped producers reduce input costs and operator fatigue, but Foster said they are also now looking at path optimization to reduce machine use and field compaction.

Yield monitoring, while still not fully adopted, is "not just yield from a field, but (can be used) to understand variability of a field and take action to reduce it," he said.

Application and section control in the company's AFS unit has been refined to provide low-cost RTK coverage over England, Northern Ireland, Denmark and

Germany as low as 2.5 centimetres.

"Farmers tell us they are getting five to 10 percent reduction on inputs, six to 12 on fuel, 15 percent more yield and one to two hours per day per operator," said Foster.

Those sorts of savings will prompt producers to invest in new equipment and tools, he added.

"And it helps our customers to improve their sustainability and reduce CO2 use and wasted inputs and the environmental cost of those."

Case IH has trained 2,000 European farmers in the last year to use its precision agriculture equipment.

The company employs nine specialized educators and has had 2,750 downloads of its app for training producers to use AFS to its greatest effect.

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MACHINERY

## Company looks to tap markets with range of size, technology

BY MICHAEL RAINE  
SASKATOON NEWSROOM

HANNOVER, Germany — Case IH is planning for trends that include China and southern Asia's economic evolution to a middle-class, its president told a recent meeting in Germany.



ANDREAS KLAUSER  
CASE IH

Andreas Klauser also said the company is expecting sales to decline in Brazil because of low soybean prices, double digit inflation and interest rates of 14.25 percent.

He said recent, slight improve-

ments to commodity prices in North America are providing hope that producers' margins are beginning to grow.

"North America is very important for (Case IH) as a company," he told.

Klauser said the narrower operating margins and a long, higher than usual profitability period in commodity agriculture left all equipment companies first struggling to meet increased demand for machinery and then overcapacity as farmers' buying slowed due to market saturation.

He said Case IH's full line of farm equipment allows it to take advantage of every market segment where economic, technology and production capacity needs create demand for farm machinery.

The company is also focusing on new technologies through its precision agriculture AFS tools, adding AFS Connect telematics outside of North America and expanding that business in Australia and Europe.

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CANOLA

# Raising seed survival puts money in bin

Seeding depth affects uniformity of emergence

BY ROBIN BOOKER  
SASKATOON NEWSROOM

Producers can expect 40 to 60 percent canola seed survival under average conditions, says the field research manager for Seed-Master.

However, Owen Kinch said there is a significant potential savings for producers who can reach the top end of that range.

"The difference between 40 percent seed survival and 60 percent seed survival, we're looking at a variance of around two pounds per acre of a seed rate, which translates into \$26 per acre," Kinch said.

Check the planting population where a producer has already seeded is an important strategy to increase canola seed survival.

"Very few people go out, throw a ring and count their canola plants. Very few people actually know what they've got," said Kinch.

Producers should make a note when conditions change, whether it's weather, soil type or seeding settings. They should then return to see how the plant population was affected.

Seeding depth must remain consistent and shallow, between half an inch to an inch deep.

"Canola plants that emerge from too deep and too shallow will have highly variable emergence dates, which greatly affects crop uniformity," he said.

Maximum seeding speed depends on soil type, moisture conditions, opener type and row spacing.

Kinch said slower is always better when improving canola's chance of survival.

"(With hoe drills), too high of speeds can cause the rear openers to throw the soil over to where the front openers on the machine have already seeded," he said.

"It will affect the depth of the seed and cause uneven or reduced emergence."

High air speed velocities compromise seed placement in the furrow.

As well, fan r.p.m. must increase as more product is placed with the seed and seeders become wider. However, air velocity increases along with fan r.p.m.

"I'm a very firm believer that if we need to seed-place starter fertilizer, if it's not in the liquid form, it shouldn't be going into the seed row," Kinch said.

"You have to limit air seed velocity because we want that canola seed to be gently dropped into furrow at the slowest seed as possible," he said

Growers also need to adjust packing pressure to match soil conditions. It should be reduced in wet conditions to lessen hard crusting on the furrow and increased in dry conditions to help conserve moisture, seal up the furrow and increase seed to soil contact.

Canola can germinate when soil temperatures are as low as 2 to 3 C, but producers should expect lower germination rates in low temperatures.

Warmer soil helps the pop-up effect, increases seed survival and improves uniformity of emer-

gence. One hundred percent germination takes place in eight days at 6 C, Kinch said.

Producers who are aiming for a proper plant population of five plants per sq. foot should be prepared to increase the seeding rate when seeding under less than ideal conditions.

For example, Kinch said they should expect slightly lower seed survival when seeding into tilled soil and adjust their rates accordingly.

"When the opener is travelling



Producers must adjust seeding rates to soil conditions to achieve five canola plants per sq. foot. | FILE PHOTO

across the field, we aren't creating that consistent ledge or furrow, and basically our depth is being compromised when we are travelling through the soil."

Producers should ideally try to seed between the stubble stand from the previous year.

Kinch said a canola seed survival rate of more than 70 percent is pos-

sible if producers are vigilant in providing the best possible conditions.

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## SEEDING TECHNOLOGY

# Tablet designed to improve seeding efficiency

Farmers can get help from technicians through remote access

BY ROBIN BOOKER  
SASKATOON NEWSROOM

SeedMaster will soon sell a tablet that is designed to help producers seed better.

The company's Axis Tablet comes with apps and capabilities that will help growers calibrate, monitor and service their seeders.

Tim Ottenbreit, who assists with product development at SeedMaster, said the company developed the tablet to be user friendly and help producers be more efficient during seeding.

"It's a nice eight inch touch screen pre-loaded with different apps, some of which we created," Ottenbreit told the recent Farm Forum Event in Saskatoon.

"It comes with a mount and all the necessary tools to keep it charged."

The tablet has a Windows 10 operating system and can be used to surf the internet and check email.

Remote access of the tablet is possible so that SeedMaster employees can help farmers while in the



The Axis Tablet has software that helps producers calculate seed requirements using a cal weight estimator.

field. It also allows technicians to update the tractor's Isobus remotely.

"The only way to put new software onto an Isobus ECU is via computer, so we can log in and you can plug the computer to the machines' Isobus and we can go in and update that ECU remotely."

The tablet comes with software that allows up to eight wireless cameras to be monitored.

"All you need to do is put power and ground anywhere on your machine," Ottenbreit said.

"It's easy to install and use. All you have to do is install the camera."

The cameras are high definition, have infrared ability, come with a heavy-duty magnet for installation and have a range of up to 60 metres.

In early 2016, the tablet will be available with a five-camera package that the company will sell through its dealer network.

Seedmaster has installed some of its own apps on the device, such as a two part rate calculator app.

One part of the app allows producers to calculate a seed rate, how

many pounds of seed are required and the overall seed cost.

It also has a cal weight estimator that provides an estimated calibration number for the product being metered.

Producers can input their product, tank model and width of the tool bar, and the app will provide the cal weight to use when calibrating the seeder.

"What it will do is spit out an estimated cal weight, so rather than trying to guess at what the cal weight is, or looking back in your notebook from last year, we have it built right in," Ottenbreit said.

SeedMaster has included an app that allows producers to find and watch video tutorials on machine operations.

PDF copies of manuals for SeedMaster products are stored on the tablet, "so if you have two SeedMaster machines from different years, you can look up each on the tablet," he said.

A digital media app includes pre-loaded farm news websites, a calculator, calendar and a map app in which operators can enter directions and use as a navigation tool.

Producers can use a weather app to monitor changing weather conditions in their area.

Internet service can be provided by installing an SD card, using a cellphone hot spot or using SeedMaster's Raven Slingshot feature, which provides high-speed connectivity with cell technology through a wi-fi signal to the cab.

SeedMaster will test its new SmartFill feature this spring, which it intends to integrate into the tablet.

SmartFill will regulate conveyor output based on a conveyor load feedback sensor and automatically close truck gates or trailer chutes when the air seeder bin reaches a predetermined weight.

"With our conveyor, we are going to have some predetermined positions where we can get that conveyor to move to a spot, so when you're jumping out of the cab, hit a button and the conveyor is going to start moving and it will be to a predetermined spot," Ottenbreit said.

SmartFill will work with Seedmaster's BinMaster app, an inventory tracker that helps operators keep track of what product has been applied into which field.

More information will be available on Seedmaster's website in early 2016 at seedmaster.ca.

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## HEALTH

## Soil and human body need beneficial microbes

BY BARB GLEN  
LETHBRIDGE BUREAU

The value of organic matter and beneficial bacteria, fungi and microbes in the soil is well known to prairie farmers.

University of Washington professor David Montgomery and his wife, Anne Bikle, discovered that value for themselves while rejuvenating the poor soil in their urban yard.

They wrote a book about it called *The Hidden Half of Nature*.

However, Montgomery has come to believe that the outside bacteria, fungi and microbes have a parallel inside the human body: the "soil" produced from food digestion.

Just as plant roots emit exudates that encourage microbial activity that helps those plants, the mucus in the human gut feeds beneficial microbes that break down fibre, said Montgomery.

In soil, the rhizosphere or root zone makes nutrients available to the plant, just as the gut area in people makes nutrition available to the body.

Fortunately for both plants and people, there is no shortage of microbial life to help with nutrient conversion.

"Fully half of the life on Earth, in terms of its weight, is microbial. Think about that. There's half of the nature that we think that we see and we know is actually invisible to our senses," he said. "Microbes outnumber us radically."

There are more microbes in a handful of soil than there are people who have ever lived, Montgomery added. And again, there's a human parallel.

"There's three to 10 times the number of bacterial, viral and fungal cells within and on your body than there are human cells. They outnumber us in terms of active genes in our own body."

Montgomery suggested that the rise in chronic diseases as a cause of death — illnesses such as Crohns, multiple sclerosis and Type 1 diabetes — are in part caused by a reduction in beneficial microbes that can trigger the gut's regulatory cells to dampen response or encourage action to fight disease.

Antibiotic use can kill beneficial bacteria at the same time as it fights harmful bacteria, he said, which changes the human micro-biome.

"The other source that changed our microbiome, that we've put far less thought into, is what we eat, simply what we put down the hatch," he said. "If you think about all those microbiota in your colon and their communication with your immune system, who's feeding those? ... It's based in great part on what we actually eat."

The colon depends on complex fibre to help it function, and it takes rich microbial life to break down that fibre for use by the body.

Similarly, organic matter in soil encourages a wide variety of bacteria, microbes and fungi to congregate and make nutrients available to plants, said Montgomery.

"Mulch your soil inside and out." That means adding organic matter to the soil and fibre to the diet.

More information on Montgomery and Bikle's research is available at [dig2grow.com](http://dig2grow.com).

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## SEED TREATMENT

# Emergency field pea fungicide registration sought

BY ROBIN BOOKER  
SASKATOON NEWSROOM

Nufarm is again applying for an emergency registration of its Intego Solo seed treatment for use on field peas in Canada.

The Group 22 fungicide includes ethaboxam, the only active ingredient rated for suppression of aphanomyces, a soil born pathogen that Boyd Bergstrom, Nufarm's western Canadian manager, referred to as a kissing cousin of clubroot.

"The latest surveys said the 65 percent of fields tested (in the Prairies) had (aphanomyces) in them," he told the Farm Forum Event in Saskatoon.

"Last year was dry, so it wasn't as much of a problem, whereas the year before it was killing yields by 30 to 50 percent."

Intego is already registered for lentils, chickpeas, dry beans and soybeans in Canada, and was granted emergency use registration in 2015 for use on field peas.

Intego is rated for suppression of aphanomyces by Agriculture Canada.

Bergstrom said an Agriculture Canada aphanomyces study, which used a scale of 0 to 5 with 5 being a dead plant and 0 a healthy plant, found that the untreated check was rated a 4.

"Intego reduced the infection and visual symptoms down to a 2.2, so at the end of the day — from a marketing standpoint suppression isn't a really good word to use — but on the scale it was basically the difference between having a crop and not having a crop."

Bergstrom said the federal studies have found an increase of eight percent in plant emergence over six trials and an increase of plant root length of 10 percent over four Intego trials.

Aphanomyces affects plants at early stages, so seed treatments need to be used to attack the disease.

"Will it protect against a high rainfall event in July? No," he said.

"But will it provide it that three to four week window where it gives you some protection early in the season? Yeah. That's the most vulnerable stage when you need to protect the plant."

Aphanomyces infections often begin when oospores, which can be found either in the soil or in infected plant debris, germinate after receiving a chemical signal from the roots of a new host plant.

Oospore can germinate by direct germination, in which the oospores produce hyphae that directly penetrate host cells at the plant root tips.

In indirect germination, the oospores produce sporangia that release zoospores, which then encyst on the host plant cells and germinate.

Oospores are not mobile — they need to be next to the root to infect the plant. However, the infection, when it does occur, can cause zoospores, which can move in soil moisture toward other plant roots.

More resting spores, or oospores, may be produced once the zoospores infect a plant with their hyphae. These oospores can survive in soil for more than 10 years.

"That's the main problem with this disease: once you have it, it's there," Bergstrom said.

Aphanomyces root rot is a mono-

cyclic disease, which means only one infection cycle per season. However, all of the oospores do not germinate at the same time, nor do all of the zoospores infect plants at the same time.

Intego's mode of action is to inhibit cell division.

"Basically, what that means is that it prevents those penetration hydrates," he said. "They might get into the plant, but once they get a taste of the Intego, they can't continue through the plant and generate more oospores."

Producers reduce the need for inoculants in future years by reducing the amount of oospores.

Intego doesn't come with a colorant, which means it needs to be mixed with another seed treatment.

"We haven't found a seed treatment it won't mix with," Bergstrom said. "It's compatible with all inoculants we've tested with the major inoculant manufacturers."

The use rate is 5.33 millilitres per bushel.

"It costs \$4.23 per bushel, so for a lentil grower, it costs for an investment payback at 34 cent lentils, you need about .2 bu. to pay back your investment," he said.

"Pea growers need about a bushel and a half at \$8.50 bu. peas."

Roots that have a grey water-soaked appearance are an early sign of an aphanomyces infection. However, the roots will eventually turn a caramel colour, which will follow them up to the surface. This is the first visible above-ground

symptom.

It takes about 10 days from the initial infection before visible signs appear on the roots.

Aphanomyces can affect lentils, peas, chickpeas, fababeans, alfalfa and clover.

Isolates from the various aphanomyces species affect host crops differently, so rotating pulse crops can have short-term beneficial effects.

"Unfortunately, in the long term, these isolates are sexually compatible and they can transfer genes," Bergstrom said.

"The genes that they can transfer can include the virulence genes."

Producers can reduce the number of oospores in the soil by using longer crop rotations, especially

with crops that are not susceptible to aphanomyces infections.

Bergstrom said anything that affects root development could increase the risk for aphanomyces, such as wet conditions, cool temperatures early in the season, short rotations, heavy textures soil, compaction and poor nutrition.

As with clubroot, the pathogen can travel between fields on equipment and boots, so cleaning equipment after leaving an aphanomyces-infested field is a wise practice.

Producers who think they have an aphanomyces infection can send a soil or plant sample to a lab for testing.

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# LIVESTOCK

## BEEF TAKES A BATH

Raising beef requires a lot of water and a B.C. researcher suggests it isn't the best use of a precious resource. | **Page 66**



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Many livestock producers are losing more animals to bears and wolves, prompting calls for better compensation and management. Coyotes are also a problem in some areas. | JIM PEACO, YELLOWSTONE NATIONAL PARK | FLICKR PHOTO

ALBERTA BEEF PRODUCERS

## Cattle group tackles budget issue

BY BARBARA DUCKWORTH  
CALGARY BUREAU

Alberta Beef Producers delegates have voted to bring back a mandatory service charge.

A resolution called for the organization to push the provincial government to allow a \$2 non-refundable checkoff, of which 60 cents would be placed in a restricted fund for marketing, research and collaboration.

Delegates also voted to increase the national levy to \$2.50 at their annual meeting in Calgary Dec. 7-9.

One dollar per animal sold across the country is now sent to support the activities of Canada Beef and the Beef Cattle Research Council.

The organization has struggled in recent years since the provincial government ruled all service charges collected by commodity groups must be refundable upon request.

The beef industry collects \$3 every time an animal is sold, which amounted to more than \$11 million in the 2015 fiscal year. Money is allocated for research, payments to the Canadian Cattlemen's Association and other national commitments. That leaves an annual provincial budget of \$5 million a year.

About \$2.5 million was refunded in the last year, of which 87 percent was returned to feedlot operators.

"It is difficult to predict the amount that will be available, and significant adjustments need to be made," said finance chair Roland Cailliau.

The next budget will be drafted in March after the next refund period is over, he said.

The Alberta Cattle Feeders Association has agreed to work with ABP to resolve the contentious issue.

The beef sector has become fractured even though all want the same things, said Page Stuart, president of the cattle feeders association.

"Both your board and our board has committed to keeping this conversation going. We know there has been criticism that we have not been moving quickly enough."

Changing the provincial service charges starts with seeking an alteration through the Alberta Marketing Council, which oversees boards and commissions. A legislative change is required to make it a non-refundable checkoff.

Discussions also need to be held with the cattle feeders association to decide on the best approach to changing the service charge.

"If we are going to get a legislative change, it is easier if we go together to the marketing council and then government asking for a change," said ABP manager Rich Smith.

Raising the national levy to \$2.50 per animal sold is more straightforward, but that will not be changed until 2017.

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ALBERTA BEEF PRODUCERS

# Wildlife pains cattle industry

Producers are losing livestock and feed to predators; call for population control and compensation

BY BARBARA DUCKWORTH  
CALGARY BUREAU

Escalating confrontations with bears, wolves and coyotes have frustrated many Alberta livestock producers.

Compensation packages need to be improved and better management is needed because too often ranchers and farmers bear the costs of problem wildlife, delegates said during Alberta Beef Producers' annual meeting in Calgary Dec. 7-9.

"We are hosts to the oil companies and wildlife. It is getting harder to be good hosts with our own money," said Walt Suintjens of Hanna.

Delegates passed resolutions that asked for coyotes to be listed as predators, the hiring of more wildlife officers with expertise in identifying how livestock died and improved compensation when farm animals are injured or killed.

Coyotes are considered a nuisance under Alberta law, while other jurisdictions consider them predators.

"It needs to happen. The cattle industry is facing the brunt of a lot of dollars lost to coyotes," said Rick McKnight of Jarvie.

"If coyotes go on the predator list, you are still allowed to hunt

them, but we have lost a lot of tools for controlling coyotes. Sometimes coyotes are more of an issue than wolves, especially when they cross with domestic dogs," he said.

McKnight, who is a member of ABP's wildlife committee, called for an updated inventory of wildlife numbers and an evaluation of carrying capacity of the land. Census information is often out of date, but wildlife populations continue to grow out of control.

**As producers, we have to have a louder voice and better voice with all the players dealing with wildlife issues.**

RICK MCKNIGHT  
ALBERTA BEEF PRODUCER

"As producers, we have to have a louder voice and better voice with all the players dealing with wildlife issues," he said.

"Compensation can be part of that, but it is not going to solve the whole situation."

Government has to provide more money for compensation and management as a benefit to all of society.

"We need room for wildlife on the landscape, but other people can help pay for it to manage it," said McKnight.

Two resolutions were referred to the wildlife committee. One requested a survey to document how much livestock is lost to predators and another asked to meet with government to discuss ways to eliminate problem wolf packs.

Other parts of the province are confronted with growing populations of grizzly bears.

They have become more common in southwestern Alberta in the last 20 years as they were pushed out of their traditional habitat. The bears often kill livestock, wreck grain bins and scavenge dead animals.

The provincial government listed the grizzly as a threatened species 10 years ago, and Cardston rancher Jeff Bectell said a monitoring program from 2011-14 found 213 individual bears in the southwest region.

The landscape might be able to support more, but society may not tolerate larger populations, he said.

"How many bears do we need for that population to be sustainable," said Bectell, who is president of the Waterton Biosphere

Reserve Association and coordinator of the Waterton Biosphere Carnivores and Communities program.

"Nobody one wants grizzly bears to go extinct in Alberta."

The biosphere is a UNESCO designation and one of 16 in the world to support sustainable biodiversity, conservation and economic goals.

The carnivore group mainly comprises ranchers, wildlife managers and the public.

It has produced a video called *Sharing the Range*, which features ranchers talking about living with wildlife, and has offered workshops about bear safety and reducing things that attract them.

This may include removing dead stock, cleaning up grain bins, attaching bear proof doors and installing electric fences to protect livestock and feed supplies.

The group has also been involved in relocating problem bears.

Bectell said much of its work could also apply to other species, such as wolves and elk.

"Not everyone has grizzly bear problems, but the principles are the same," he said.

## FEED MANAGEMENT

# Time to cull, not skimp on feed: forage expert

Producers with feed shortages are advised to get rid of older or open cows and those with physical limitations

BY BARBARA DUCKWORTH  
CALGARY BUREAU

ROCKY MOUNTAIN HOUSE, Alta. — Extra planning is needed to control costs and keep cows healthy when feed is in short supply.

“If you skimp and don’t do things right on the feeding program now, it could affect the cows next year and the year after,” said forage specialist Barry Yaremicio of Alberta Agriculture.

Drought caused feed shortages in many areas this year, and although there was some recovery later in the season, pregnant cows may have to eat more straw and alternative feeds, he said at a recent cattlemen’s day sponsored by Clearwater County in west-central Alberta.

Cows will handle this challenge better if they are in good condition. Thin cows struggle through a cold winter, may have calving difficulties and may not produce enough milk.

A cow that is 200 pounds lighter than normal is missing its insulating fat cover and will need 1,400 pounds of hay to stay warm.

Cows that are in poor shape at calving may need assistance because they do not have enough energy or muscle tone to push out the calf. Those in good condition return to estrus sooner than thin cows.

Producers may need to consider reducing the herd to stretch out available feed. Pregnant cows make money, and there is no point in feeding an open cow over the winter that will not produce a calf.

“If you’ve got a crotchety old girl that wants to put you through the fence, she’s gone. If it is a 14- or 15-year-old cow, that is another candidate. Physical limitations like poor udders and poor feet are candidates for culling,” he said.

Also, consider the cow’s size. An 1,800 lb. cow eats more than a smaller one weighing 1,200 lb.

Next, figure out how much feed is available, such as hay, straw, grain and supplements.

The amount of available protein and energy is the first consideration when planning to get a pregnant cow through the winter.

Cows need seven percent protein in the ration at pre-calving, nine percent at calving and 11 percent at lactation. Energy requirements also increase as cows move from early pregnancy to lactation.

Most good hay contains 58 to 60 percent energy, so no grain is needed until after calving.

Producers who feed straw should add six to eight lb. of grain per day,



Producers need to assess available hay, straw and grain and determine how to best meet livestock’s nutritional need. | FILE PHOTO

four ounces of limestone, an ounce of magnesium oxide and trace mineral salt to keep the cows going.

“I feel there should be very little or no straw in an after calving ration,” he said.

“It is too low a quality with not enough energy, not enough protein. If your cows lose weight, they won’t milk properly,” he said.

It takes seven lb. of milk to produce one lb. of gain for a calf.

“If you don’t have good body condition score, she can’t produce that amount of milk at the peak, therefore you are losing that same amount of milk throughout the 250 day lactation,” he said.

Producers who are trying to stretch out feed supplies should consider how much is wasted.

Stacking bales in a pyramid is probably the worst way to store hay because snow and water seeps in and could cause spoilage. The best type of storage, if there is room, is to place single bales in rows 15 to 20 centimetres apart.

Feed waste also comes in other forms.

A bale processor could be responsible for 19 percent feed waste, while an unroller causes 12 percent loss.

Three to 20 percent waste is attributed to bale feeders, depending on the design.

Yaremicio said the outside of the bale feeder should have rods 35 to 38 cm apart at a slope so the cow has to turn its head to get in. Feed

that is dropped will fall into the feeder rather than on the ground, where it is trampled.

Silage on snow causes 25 percent feed loss, so putting feed in tubs or some other container will keep cows from walking over spilled feed.

**I feel there should be very little or no straw in an after calving ration. It is too low a quality with not enough energy, not enough protein. If your cows lose weight, they won’t milk properly.**

BARRY YAREMCIO  
ALBERTA AGRICULTURE

Feeds of all types should be tested for nutrient quality and sulfur and nitrate levels.

Many crops germinated in July this year and were in full bloom in September. As a result, more was turned into green feed or silage. It was a good choice because cows like it and it contains 14 to 16 percent protein.

However, nitrates and sulfur levels need to be monitored because cows could end up with polio and die if sulfur levels are too high.

There should be no more than seven percent oil if pods are starting to fill. Otherwise, the rumen

does not function properly.

Crude protein may be unavailable to an animal if green feed or hay was put up tough. It may smell sweet or similar to tobacco. Green feed bales that are heated to more than 40 C will convert nitrate to nitrite, which is toxic.

Pea straw is high in protein, but cows take a couple days to adjust to the taste. It could be mixed half and half with cereal straw to boost nutrition.

Weeds such as kochia can be fed, but they might accumulate compounds that limit calcium absorption.

Other weeds can accumulate nitrates and alkaloids, which is the same kind of toxin as ergot. For safety’s sake, limit this kind of feed to 20 to 25 percent of the ration.

Reed canarygrass is a potential feed, but some varieties have high alkaloid content early in the year and may kill cows.

Some farmers cut parts of fields this year that they did not usually use and ended up with water hemlock or sea side arrow grass in the hay mix. These contain cyanide and can kill a cow in 30 minutes.

Grazing stubble is always a good option, but cows can overload on grain if too much is spilled in the field during harvest. Cows should also receive high levels of calcium supplements.

Grazing perennials such as alfalfa is a good idea as long as the crop is dormant. Many producers turn

cows out too early while the crop is still growing, which can result in winter kill.

Supplementation is also needed to make sure cows receive essential minerals such as calcium and phosphorous. Trace mineral deficiencies reduce immune function in cows and calves. Deficiencies may also affect fertility and calf growth.

Calcium may be delivered by adding limestone. However, it is chalky and dries out the mouth, so it is not palatable to the animal. Adding six to eight lb. of dried molasses to the mix sweetens the feed, and the cows are more willing to eat it.

However, adding molasses to improve straw intake is probably not worth doing.

“Straw intake is limited by the intake of neutral detergent fibre,” Yaremicio said.

“Putting molasses on it may alter the taste a little bit, but their total feed intake per day will not change.”

Neutral detergent fibre is a measure of lignan, which is hard to digest.

Producers might consider using an ionophore such as rumensin or Bovatec in a year like this one to improve digestive efficiency, especially if cows are on a high fibre diet.

Remember that these products can kill horses and dogs, so they should be used with care.

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## FORAGE PRODUCTION

## New initiative focuses on forage research, environmental stewardship

BY BARBARA DUCKWORTH  
CALGARY BUREAU

A multi-level agreement to revitalize forage research and education has been reached in Alberta.

The Alberta Beef, Forage and Grazing Centre agreement is a five year deal between Alberta Beef Producers, Agriculture Canada and Alberta Agriculture.

ABP is providing \$25,000 a year for this initiative, funds permitting, while both levels of government will offer personnel and facilities to develop the virtual centre.

“There is no direct money from the government, but they are contributing expertise through staff,” said Karin Schmid, a beef production specialist with ABP.

“They are reallocating staff time,

which is significant.”

The proposal replaces the Western Beef Forage Group, which dissolved and left a gap in research.

“The idea is to try and co-ordinate the forage and beef research across the province,” said Schmid.

A management committee from producer groups and the two levels of government will be formed to start co-ordinating work.

Much of the research and extension expertise is located at Agriculture Canada’s Lacombe Research Centre, but other locations and partners could also be involved.

The concept is to improve the forage-beef system’s productivity, competitiveness, sustainability and land and resource use efficiency by:

• building and maintaining re-

- search and extension capacity
- reducing backgrounding and winter feeding costs by 50 percent
- reducing the cowherd’s environmental footprint and cow efficiency by 15 percent
- improving late summer-fall pasture productivity by 30 percent.

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## WATER SUPPLY

# Focus on beef exports not water efficient: expert

Exporting food like potatoes or beans is more economical than growing forage to convert into meat, says professor

BY BARB GLEN  
LETHBRIDGE BUREAU

It's all about water when it comes to food production, and putting Alberta's supply into beef production is not an efficient use, says a University of British Columbia professor.

Hans Schreier, professor emeritus in the land and food systems faculty, said it takes 15,000 litres of water to produce one kilogram of beef.

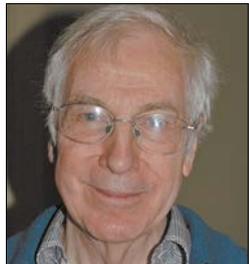
"If we move more and more into a meat based diet, we're going to need massive amounts more water," he said.

"We should look at water efficiency. We should look at the environmental value and we should look at the economic value."

Schreier told the Alberta Irrigation Projects Association water conference that Canada is well positioned to increase its exports and help feed a growing global population.

However, doing it smartly means paying attention to water use and its virtual export in food.

"I would argue that Canada has a tremendous potential to become a much bigger world leader in terms of the way we produce food and help the global situation, and the reason for that is climate change is actually going to help us," he said.



HANS SCHREIER  
UNIVERSITY PROFESSOR

"We're going to have a longer growing season. We're going to have less frost.... We're going to have relatively low-intensive agriculture. You might not think so, but when you look around the world, we are not that intensive as far as production is concerned."

He said southern Alberta, with its

extensive irrigation system, would be better served in water conservation efforts by exporting more potatoes, corn, drypeas, beans and cereals.

Schreier made his remarks in Lethbridge, the most intensive beef production area in Canada.

George Graham, a director for the Eastern Irrigation District and co-owner of the South Slope Feeders beef feedlot operation, questioned Schreier's figures in terms of beef water use.

Beyond that, Graham said the market dictates what Canada produces and exports.

"I think he was missing a key component to the whole picture and that is the marketplace is actually going to dictate what we produce. We're going to respond to market signals. That's how we conduct our business. That's how we make decisions," he said.

"And the market right now is trying to feed the world, and in fact we're going to be looking at producing twice as much food to feed the world over the next 30 years, I think beef is going to be a key com-



GEORGE GRAHAM  
SOUTH SLOPE FEEDERS

ponent to that."

In a later interview Schreier acknowledged that his beef message might not be embraced in Alberta's proverbial "feedlot alley."

"I never said you should go cold turkey on beef," he said. "It's perfectly fine to produce beef for the local market, but I don't think it's a very wise thing for export."

Schreier said the entire industry is at risk from drought and disease, given that Alberta produces 73 percent of all beef exports. He advocated crop diversity.

"If we spend all our effort irrigating forage crops, that's not a very efficient way of actually exporting

food," he said.

"We'd be far better off to use crops which are water efficient, high value, rather than going through these two stages, processes, where first you have to grow the crop and then you have to convert it into meat."

Schreier said water-scarce countries are already reducing crop production in favour of importing food. His figures showed China has significantly reduced rice production as part of its water strategy.

"The data shows that they are saving massive amounts of water by importing water intensive food."

Graham said conservation is part of the crop and beef production picture with significant investments made in better technology at the irrigation district and producer levels.

"I think we've got some challenges ahead of us," he said.

"I appreciate what Dr. Schreier is saying, his viewpoint. That actually helps us, in that we know we have people that are questioning our practices and it helps us raise the bar in producing our product."

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## CROWD DISEASES

## Theory blames major human infectious disease on agriculture

## ANIMAL HEALTH



JAMIE ROTHENBURGER, DVM

A small subset of human infectious diseases are classified as "crowd diseases."

These include smallpox, measles, plague, tuberculosis, flu and whooping cough.

Crowd diseases have similar characteristics, including an acute clinical course with easy transmission between people and two possible outcomes: recovery with establishment of long-term immunity or death.

To avoid snuffing itself out, this type of disease requires large populations of people in relatively close contact. Crowds have suffi-

cient numbers of people who have not yet contracted the disease and gained immunity.

The crowd disease is sustained by spreading among pockets of people in an area before circulating back through previously affected regions when there is a group of susceptible young people.

Scientist Jared Diamond and colleagues propose that crowd diseases are directly related to domestic animals.

It wasn't until 11,000 years ago

that people domesticated animals and developed agricultural practices. Animals such as pigs, horses, sheep, goats and cattle helped these societies transition from small groups of hunter-gatherers to a more stationary way of life.

For the first time in human history, substantial population growth, cities and crowds followed the acquisition of reliable protein sources in the form of meat and milk.

It is Diamond's theory that animal agriculture provided a large, close-knit human population to allow crowd diseases to emerge, while large groups of domestic animals living in close association with people provided the source of these infection agents.

The animal germs may have passed directly from the domestic animals to people through repeated, frequent contact.

As well, domestic animals could also have functioned as a mixing vessel for infectious agents found in wildlife and passed them along through their close contact with people.

Whichever way they arose, these germs successfully transitioned from their primary animal focus to specifically targeting people. Once established and woefully unencumbered by the modern infection control methods of quarantine, sanitation and vaccination, crowd diseases changed the course of human history.

Historians often consider the specific role infectious disease has played in shaping major historical events.

Among these, the most well known is the European conquest of North America. Infections such as smallpox swept through First Nations populations well ahead of invading armies. Untold numbers

of these people succumbed to Old World illnesses to which they had no immunity. With their populations decimated, Europeans invaded and colonized.

## Information lacking

Diamond's intriguing microbial history lesson also highlights shocking knowledge gaps.

Specifically, he points out that we know little about the specific origins of many important human infectious diseases. This is problematic because reservoirs could be ticking along in nature without our knowledge.

A solid grasp of precisely which animals these crowd diseases originated from could inform present-day monitoring efforts for emerging diseases. It might also provide clues as to how new germs develop the characteristics of a crowd disease, including efficient transmission between people.

The germ theory of disease, the discovery of antibiotics, widespread vaccination and eradication of smallpox have allowed civilization to enjoy a short lull in the importance of infectious diseases.

However, we are currently in an age of unprecedented infectious disease emergence, mainly from wildlife reservoirs. It might be pertinent to reflect on and further study Diamond's take on disease emergence while continuing to look forward to the next big threat.

For more on this fascinating topic, read Diamond's book, *Guns, Germs and Steel: The Fates of Human Societies*.

Dr. Jamie Rothenburger is a veterinarian who practices pathology and a PhD student at the Ontario Veterinary College. Twitter: @DrJamieR\_Vet

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## CLIMATE CHANGE

# Healthy soil can reduce greenhouse gas: experts

Increasing plant diversity and a return to mixed farming allows the recycling of nutrients and builds organic matter in the soil

BY JEFFREY CARTER  
FOR THE WESTERN PRODUCER

LONDON, Ont. — Farmers have an obligation to address climate change, said speakers at a recent ecological farming conference.

The way to do that is to build soil health, according to University of Vermont soils expert Heather Darby and long-time Ontario organic farmer Ken Laing.

“There are all kinds of meetings like this happening and we have a better chance of changing the world than the people who met in Paris at the climate talks last week,” Darby told the Ecological Farmers Association of Ontario conference.

“The food system has to be more than about cheap food.”

Laing said a 2.5 percent increase in carbon content in the world’s agricultural soil would go a long way toward resolving the issue.

“You can challenge my math and calculations, but this is pretty hopeful,” he said.

Human releases of carbon dioxide, nitrous oxide and methane over the past two centuries — with agriculture among the heavy contributors — have led to the unprecedented spike in their levels, Laing said.

For example, carbon dioxide levels fluctuated because of natural influences over the past million years but never exceeded 300 parts per million until the 20th century.

Laing has managed to increase soil organic carbon levels on his

***We’ve taken animals away from crop production, but really they need to be closely intertwined and that’s easy to do when you have a local food system.***

HEATHER DARBY  
SOIL EXPERT



own farm near Sparta by a percentage point over the past 30 years. He might have achieved more had he been better informed from the start, he added.

A soil component that’s central to soil structure had yet to be discovered when he began farming.

It was only in 1996 that U.S. Department of Agriculture scientist Sara F. Wright identified globalin, Laing said.

It’s produced in the soil and roots by the hyphae and spores of arbuscular mycorrhizal fungi and is often described as the glue that holds soil together.

Laing and Darby feel agriculture should move toward a system that is much less reliant on chemical fertilizers and other crop management tools that they say have a negative impact on soil biology.

Central to this would be a return to mixed farming enterprises with crops and livestock.

These would combine the nutrient recycling of the past with today’s far greater understanding of the intricate interaction between

plants and soil organisms.

The problem with chemical nitrogen fertilizers is that they interfere with delivery of organic forms of nitrogen to plants through mineralization, Darby said. In simple terms, biological relationships are compromised when crop plants have a smorgasbord placed in front of them.

“It’s not about just feeding your plant. It’s about having good soil to do the job for you,” she said.

#### Society benefits

Darby said agronomic changes may also increase the number of farmers and foster an improved relationship with the broader society.

“We’ve been on this trend, this bigger and cheaper trend, for decades. What’s that’s done is that we’ve lost a lot of farmers, which is really sad,” she said.

“We’ve taken animals away from crop production, but really they need to be closely intertwined and that’s easy to do when you have a local food system.”

Laing and Darby offered other soil-building suggestions, such as increasing plant diversity through wider rotations and the extensive use of green crops and cover crops, using manure, keeping the soil covered and reducing or eliminating tillage.

Darby said most soil and crop requirements can be addressed by the good practices with which most farmers are already familiar.

She is not a big fan of biological sprays as a short cut to crop health and said organic matter is central to the physical, chemical and biological aspects of soil, of which there are three types:

- living organic matter, plants and soil organisms
- recently dead organic matter
- long-dead organic matter or humus

“It’s not that important for me or for you to understand the function of every microbe in the soil,” she said.

“What you need to know is, if you build it, soil organic matter, the microbes will come.”

Providing a diverse array of organic matter, as opposed to what Darby described as a white bread diet, will lead to a diverse array of soil organisms.

Limiting tillage is important to help maintain mycorrhizal fungal organisms, and care needs to be taken to maintain the right balance of soil nutrients.

For example, Darby said many of the organic vegetable operations in Vermont have applied generous amounts of compost made with

poultry manure, which has led to excess levels of phosphorus.

In addition, some organic farmers have made the mistake of adding too much carbon to the soil in forms such as straw or horse manure with sawdust. There’s a long-term benefit, but crops are likely to be shorted of their nitrogen requirements in the short term, she said.

Another fundamental consideration is pH. The ideal range is from 6.2 to 6.8 for optimum access to the full range of nutrients required for soil and plant health.

Darby and Laing feel that a con-

certed effort to build soil carbon levels can turn back climate change if there’s enough time. In the short term, it can help protect what’s already there.

Darby showed a photograph of a conventionally managed corn field in Vermont that was stripped of corn and its topsoil by one of the increasing number of storms in the region.

“We have to take care of our soils to build resiliency to these weather events,” she said.

“Good soil allows us to grow crops with less cost, in terms of money and the environment.”

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**Nathan Shirley, AT**  
Environmental Scientist  
Meridian Environmental Consultants  
Edmonton, AB

Nathan provides remediation and reclamation services for oil/gas facilities and historical wells throughout Saskatchewan and Alberta. He conducts phase 3 work, which includes removal of contaminated materials, drilling to determine the extent of remediation need, and soil and vegetation profiles.

*“Being registered as an agricultural technologist (AT) is a commitment to use my science-based knowledge to be a steward of the environment and ensure sustainability for the future.”*

Nathan was raised in Saskatoon, SK. He received a BSc from the University of Saskatchewan in physical geography. Nathan previously worked with Klohn Crippen Berger and Tera Environmental.



**Brian Slater, AT**  
Environmental Specialist  
Summit Liability Solutions  
Lloydminster, AB

Brian provides pre-disturbance assessments for utilities and oil and gas projects. He ensures that all projects follow their designated permits and provide environmental monitoring services during construction. Brian will also advise companies on erosion control to prevent and fix environmental damage.

*“Being registered as an agricultural technologist (AT) ensures that my science-based education is supported by a professional designation so that the public can trust that I am committed to continual learning and a code of ethics.”*

Brian was raised in Choiceland, SK. He received a diploma in wildlife and fisheries conservation from Lakeland College. Brian previously worked with the Saskatchewan Water Security Agency, Grassland Environmental, and Golder Associates.

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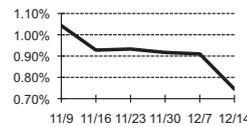
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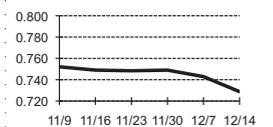


While mouldboard plowing is still a part of Ken and Martha Laing’s organic farm, the couple has found ways to reduce tillage including the recent introduction of a single strip, strip-tillage implement Ken designed. | JEFFREY CARTER PHOTO

## AGFINANCE

CDN. BOND RATE:  
0.745%

Bank of Canada 5-yr rate

CDN. DOLLAR:  
\$0.7288

Dec. 14

AGFINANCE EDITOR: D'ARCE MCMILLAN | Ph: 306-665-3519 F: 306-934-2401 | E-MAIL: DARCE.MCMILLAN@PRODUCER.COM | TWITTER: @DARCEMCMILLAN



Workers prepare organic potatoes for shipment at Pfenning's Organic Farm in Baden, Ont. | JEFFREY CARTER PHOTO

COMMITMENT TO FOOD SAFETY

# Company gives ethics priority

Organic growers favour local foods over imports and appreciate dedication of foreign workers

BY JEFFREY CARTER  
FOR THE WESTERN PRODUCER

BADEN, Ont. — Business acumen lies behind Pfenning's Organic Farm, but another element to success is equally important, if not more so.

"I'd rather lose money than compromise ethics," Jenn Pfenning said.

She and her husband, Ekk, operate the business with other family members. Ekk's mother, Barnhild, is still involved.

The family, which founded the operation in 1981, farms 700 acres of owned and rented land and has developed a distribution network that connects numerous organic farmers in Ontario to retailers, including one of Canada's largest chains. Employment at the business peaked at 130 workers this summer. The focus is on vegetables, including root and cole crops and a range of greens.

"We have a truck on the road every day delivering to Toronto, and we work with smaller acreage farmers," Pfenning said.

"The Big Carrot was one of the first organic retailers in Ontario

and we've sold to them since they first opened."

Business arrangements with retailers are formal, but the Pfenning's use handshake agreements with their farm suppliers.

The family decided to keep the business's food safety certification, even though they no longer work with the large retail chain that required it.

JENN PFENNING  
PFENNING'S ORGANIC FARM

The business also imports organic produce for redistribution.

"We're totally committed to local production above imports, but it makes sense for us to round up our offerings with things we can't grow here," Pfenning said. "It helps keep our people working."

The business has a large payroll, which includes a contingent of Jamaican men hired through the Seasonal Agricultural Workers Program.

"It has flaws, which I think many people have read about, but to me the benefits outweigh the flaws," she said.

"The answer is to fix the program, not to scrap it.... It provides us with people who are very skilled."

Pfenning and her family maintain an interest in the lives of their workers and their families. She cited examples of long-time employees from Jamaica, a job-poor nation, being able to put their children through school.

Besides, the Pfenning's say they have not been able to find enough willing Canadians for the work, although tapping into the area's Sikh-Canadian community has helped.

The Pfenning's also pay close attention to their soil. They work with Michigan crop consultant Joe Scrimger, who focuses on biological health.

They grow small grain and cover crops for rotational purposes, and regularly apply compost made

with various sources of manure.

"This is the United Nations' Year of the Soil and soil biology fascinates me," she said.

"We have a field at the back end of the farm that was hard clay. My father-in-law was three-furrow plowing. He said the ground was so heavy it lifted the tractor when he tried to drop the plow. After 30 years of work, it's in good shape."

The business is profitable, although margins may be slim in some years, Pfenning said.

"We didn't have a money tree so we worked with what was here."

The distribution business was started in the 140-year-old bank barn on the family's home farm. A large warehouse with an energy-efficient system for heating and cooling is a later investment.

Pfenning's Organic Farm is a well recognized name within Ontario's organic farming community.

The operation opened its doors to visitors Dec. 3 in conjunction with the second annual Ecological Farmers Association of Ontario conference.

The Pfenning family traces their farming roots to 17th century Europe.

## AG STOCKS DEC. 7-11

Falling crude oil prices, worries about China's economy and uncertainty about the impact of a U.S. interest rate increase hammered stock markets. For the week the TSX composite fell 4.4 percent, the S&P 500 dropped 3.8 percent, the Dow slid 3.3 percent and the Nasdaq fell 4.1 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

## GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	34.22	35.97
AGT Food	TSX	31.60	31.84
Bunge Ltd.	NY	62.96	64.98
ConAgra Foods	NY	39.31	41.15

## PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.350	0.360
Cervus Equip.	TSX	14.26	14.03
Input Capital	TSXV	1.73	1.76
Rocky Mtn D'ship	TSX	6.57	6.53
Hormel Foods	NY	77.44	77.59

## FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
Maple Leaf	TSX	21.74	22.30
Premium Brands	TSX	37.86	37.68
Tyson Foods	NY	52.52	52.04

## FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
Ag Growth Int'l	TSX	29.23	28.82
AGCO Corp.	NY	49.03	51.44
Buhler Ind.	TSX	5.55	5.55
Caterpillar Inc.	NY	65.43	69.98
CNH Industrial N.V.	NY	7.06	7.33
Deere and Co.	NY	77.16	79.59

## FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	129.27	132.30
BASF	OTC	75.26	79.43
Bayer Ag	OTC	122.38	128.20
Dow Chemical	NY	53.37	53.31
Dupont	NY	70.44	67.75
BioSynt Inc.	TSXV	7.00	7.02
Monsanto	NY	93.63	97.85
Mosaic	NY	29.37	30.88
PotashCorp	TSX	23.84	25.34
Syngenta	ADR	78.11	74.20

## TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	72.47	76.14
CPR	TSX	169.77	180.15

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.

## Glencore eyes ag unit change

Glencore, the global commodities conglomerate that owns Viterro, is considering an initial public offering for its agricultural trading business, Bloomberg reports.

The slowdown in commodities has punished Glencore's balance sheet, and the company wants to reduce its net debt by one-third to \$18 to \$19 billion by the end of 2016. Selling part of its agricultural holdings is one way to do that.

The company plans to sign deals regarding its agriculture business by the first half of 2016.

BEER, WINE

# Ontario plan for wine, beer considered bust for growers

BY JEFFREY CARTER  
FOR THE WESTERN PRODUCER

CHATHAM, Ont. — Government plans to expand wine and beer sales to as many as 300 additional grocery stores threatens an important market for Ontario's farmers, says the president of the Association of Canadian Distillers.

"In Ontario, everything we pro-

duce is produced with things grown in Ontario. Underline that — everything," Jan Westcott told the Kent Federation of Agriculture's annual meeting Dec. 3.

"We're not asking anyone for anything more. We just want to be treated the same .... They (the government) are so focused on the wine industry and craft beers that they're discriminating against the spirit industry and

Ontario's grain farmers."

Windsor is home to North America's largest distillery, and there are others in Amherstburg, Collingwood, Brampton and Grimsby.

Westcott said Canadians have a taste for domestically produced spirits. Sixty percent of the spirits consumed in Canada were produced domestically, and products such as Canadian whisky are appreciated globally.

Ontario's agriculture ministry estimated a few years ago that the industry has a \$1.5 billion impact on the province's economy.

It's connected to 6,000 jobs and represents a market for 40,000 to 50,000 acres of Ontario corn production and smaller amounts of wheat, rye and barley.

Westcott said spirits should also be treated equally when it comes to taxation. Spirits sold in Ontario

are taxed four times higher than wine and three times higher than beer on a strictly alcohol-to-alcohol content perspective, she added.

She said it's a myth that the type of alcohol contained in wine and beer is different from that in spirits.

The alcohol content is about the same whether it's a bottle of beer, a five-ounce glass of wine or a 1.5 ounce shot of liquor, she said.

HUMAN RESOURCES

# Managing farmer's time first step in human resources

## PERSPECTIVES ON MANAGEMENT



TERRY BETKER

It wasn't many years ago that the notion of managing human resources on a farm was a foreign concept. Human resource management was something other businesses did.

But to quote a Bob Dylan song, "the times they are a-changin'."

Management on a farm can be categorized into four main areas: marketing, operations, finance and human resources.

Businesses can benefit from working to achieve and sustain a relative balance, or harmony, among management functions.

This requires that owners and managers take a more holistic approach. They must spend time analyzing business performance to understand how the decisions they make affect the various areas of management. How, for example, does an operations decision affect finance and human resources.

Farmers have traditionally treated management function independently, with a primary focus on operations and marketing.

Many farmers recognize, though, that their management activities must change to ensure long-term sustainability.

Increasing complexity is a key driver of this need for management changes.

The increased complexity typically comes from farms that are getting bigger, working through an intergenerational transition or diversifying into new business units.

More attention must be directed at finance and human resource management.

Money can be a limiting resource, but there is really only one absolute constraining resource, and that's a farmer's time. The saying "time is money" applies.

I've been consulting with farmers and farm families for decades and am detecting a shift. Producers are starting to accept that managing human resources is important, not just for arm's length employees but for every farm worker, including family members.

However, the most important human resource to manage is clearly a farmer's own human resource.

Steven Covey, author of the *Seven Habits of Highly Effective People*, says that "it's incredibly easy to get caught up in an activity trip, in the busyness of life, to work harder at climbing the ladder of success only to find it's leaning against the wrong wall. Is it possible to be busy, very busy, without being effective?"

It makes no sense to continue to do the same things — the busyness things — and expect that changes will happen.

The simple questions that follow are: what can farmers do to effect the change that they determine is needed, and can they make better use of their own human resource.

The answer is more involved.

First, farmers have to know what they do on a day-to-day and month-to-month basis.

However, most of them don't really know what they do.

This isn't a criticism. Until recently, there wasn't a need to know, in any detail, what individual farmers did with their time.

A relatively easy exercise is to write down a list of what gets done and what gets managed on the farm. Allocate each of the activities to one of the four management areas: marketing, operations, finance and human resources.

There's a saying that "you can't manage what you can't measure." How do farmers begin to know how to make adjustments to their management practices if they have not measured how and where they're spending their time?

Farmers should then determine which of the activities that take up

their time are they willing to let go.

It will require a re-focus.

There's a better chance of getting the desired outcomes if the adjustment is purposeful. In other words, determine what it is you are working to achieve.

Next, be a bit selfish with your time. This is about working smarter rather than harder.

I've had farmers tell me in the past few months that they are going to start to be much more selective about the events they attend. Do you have the time to attend the event? Where might you better spend that time?

Terry Betker is a farm management consultant based in Winnipeg, Manitoba. He can be reached at 204.782.8200 or [terry.betker@backswath.com](mailto:terry.betker@backswath.com).

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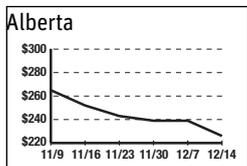


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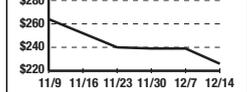
**THE WESTERN  
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# CATTLE & SHEEP

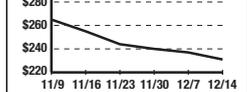
## Steers 600-700 lb. (average \$/cwt)



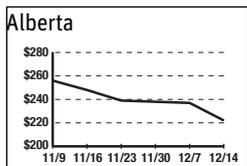
## Saskatchewan



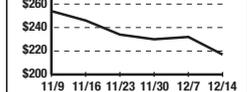
## Manitoba



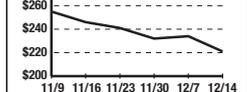
## Heifers 500-600 lb. (average \$/cwt)



## Saskatchewan



## Manitoba



## Canadian Beef Production

million lb. YTD	% change
Fed	1728.6 -2
Non-fed	239.7 -8
Total beef	1968.3 -3

Canfax

## EXCHANGE RATE

DEC. 14  
\$1 Cdn. = \$0.7288 U.S.  
\$1 U.S. = \$1.3721 Cdn.

## Slaughter Cattle (\$/cwt)

Grade A	Live		Previous		Year ago	Rail		Previous	
	Dec. 4-Dec. 10	Nov. 27-Dec. 3	Dec. 4-Dec. 10	Nov. 27-Dec. 3		Dec. 4-Dec. 10	Nov. 27-Dec. 3		
<b>Steers</b>									
Alta.	n/a	160.00	n/a	n/a	n/a	n/a	257.00-264.50		
Ont.	144.48-158.56	142.56-161.82	178.33				260.00-265.00		
<b>Heifers</b>									
Alta.	n/a	156.00-160.00	n/a	n/a	n/a	n/a	257.00		
Ont.	143.41-156.83	144.22-157.63	171.45				259.00-264.00		

\*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

## Feeder Cattle (\$/cwt)

	Sask.				Man.				Alta.				B.C.			
	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700	900-1000	800-900	700-800	600-700
<b>Steers</b>	187-200	175-200	191-205	no sales	187-200	175-200	191-205	no sales	187-200	175-200	191-205	no sales	187-200	175-200	191-205	no sales
<b>Heifers</b>	177-200	165-192	189-200	170-200	177-200	165-192	189-200	170-200	177-200	165-192	189-200	170-200	177-200	165-192	189-200	170-200

## Average Carcass Weight

	Dec. 5/15	Dec. 6/14	YTD 15	YTD 14
Canfax				
Steers	942	901	893	861
Heifers	855	810	821	794
Cows	712	678	723	684
Bulls	989	938	1005	930

## U.S. Cash cattle (\$/cwt)

Slaughter cattle (35-65% choice)	Steers		Heifers	
	National	Kansas	Nebraska	Nebraska (dressed)
	118.69	119.00	116.36	n/a
	n/a	n/a	n/a	190.00

## Feeders No. 1 (800-900 lb)

	Steers	Trend
South Dakota	139.00-151.50	-8/-15
Billings	n/a	n/a
Dodge City	161.50-163.00	-2/-8

## Cattle / Beef Trade

	Exports	% from 2014
Sltr. cattle to U.S. (head)	461,598 (1)	-33.0
Feeder C&C to U.S. (head)	285,008 (1)	-31.8
Total beef to U.S. (tonnes)	194,658 (3)	+6.1
Total beef, all nations (tonnes)	266,578 (3)	+1.5

	Imports	% from 2014
Sltr. cattle from U.S. (head)	n/a (2)	n/a
Feeder C&C from U.S. (head)	29,016 (2)	-23.5
Total beef from U.S. (tonnes)	119,496 (4)	-8.4
Total beef, all nations (tonnes)	189,007 (4)	-2.3

(1) to Nov 28/15 (2) to Oct 31/15 (3) to Oct 31/15 (4) to Dec 5/15

Agriculture Canada

## Exports % from 2014

Sltr. cattle to U.S. (head) 461,598 (1) -33.0

Feeder C&C to U.S. (head) 285,008 (1) -31.8

Total beef to U.S. (tonnes) 194,658 (3) +6.1

Total beef, all nations (tonnes) 266,578 (3) +1.5

Imports % from 2014

Sltr. cattle from U.S. (head) n/a (2) n/a

Feeder C&C from U.S. (head) 29,016 (2) -23.5

Total beef from U.S. (tonnes) 119,496 (4) -8.4

Total beef, all nations (tonnes) 189,007 (4) -2.3

(1) to Nov 28/15 (2) to Oct 31/15 (3) to Oct 31/15 (4) to Dec 5/15

Agriculture Canada

## Exports % from 2014

Sltr. hogs to/fm U.S. (head) 1,031,508 (1) +33.8

Total pork to/fm U.S. (tonnes) 366,608 (2) +15.5

Total pork, all nations (tonnes) 939,757 (2) -1.9

(1) to Nov 28/15 (2) to Oct 31/15 (3) to Dec 5/15

Agriculture Canada

## Chicago Hogs Lean (\$/cwt)

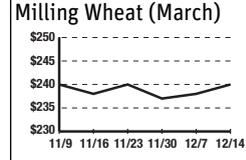
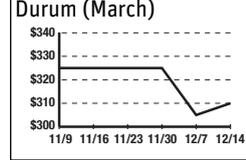
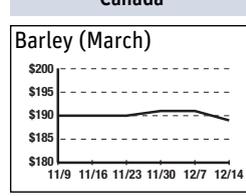
	Close		Trend	Year ago	Close		Trend	Year ago
	Dec. 11	Dec. 4			Dec. 11	Dec. 4		
Dec	56.00	57.05	-1.05	87.53	Jun	76.18	74.38	+1.80
Feb	60.55	59.10	+1.45	83.25	Jul	76.45	75.13	+1.32
Apr	64.70	63.23	+1.47	84.35	Aug	76.10	75.83	+0.27
May	72.00	70.28	+1.72	89.00	Oct	67.65	67.05	+0.60

## (000 tonnes) Dec. 6 Nov. 29 YTD Year Ago

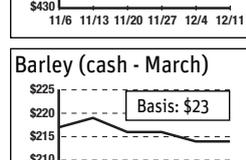
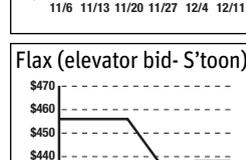
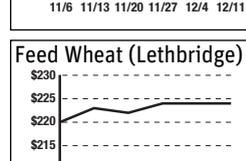
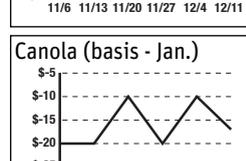
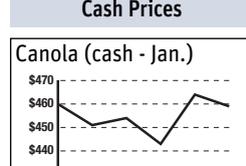
Alta.	329.3	260.6	4970.3	5405.4
Sask.	418.7	449.8	8353.4	8045.8
Man.	171.8	150.4	2992.5	2312.3

# GRAINS

## ICE Futures Canada

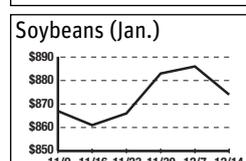
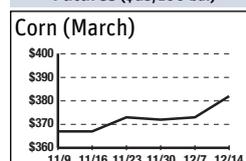


## Cash Prices

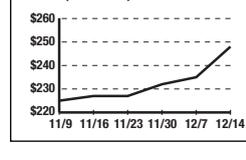


Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

## Chicago Nearby Futures (\$/100 bu.)



## Minneapolis Nearby Futures (\$/100bu.)



## Pulse and Special Crops

Source: STAT Publishing, which solicits bids from Maviga N.A., Legumex Walker, CGF Brokerage, Parrish & Heimbecker, Simpson Seeds and Alliance Grain Traders. Prices paid for dressed product at plant.

	Dec. 11	Dec. 4	Nov. 13
Laird lentils, No. 1 (c/lb)	66.00	61.50	55.00
Laird lentils, Xtra 3 (c/lb)	55.00	48.50	43.00
Richlea lentils, No. 1 (c/lb)	60.00	56.00	48.00
Eston lentils, No. 1 (c/lb)	53.00	50.00	44.00
Eston lentils, Xtra 3 (c/lb)	41.00	41.00	33.00
Sm. Red lentils, No. 2 (c/lb)	57.00	51.00	45.00
Sm. Red lentils, Xtra 3 (c/lb)	47.00	45.00	39.00
Peas, green No. 1 (\$/bu)	8.75	8.75	8.50
Peas, large, yellow No. 1 (\$/bu)	11.00	10.50	10.00
Peas, sm. yellow No. 2 (\$/bu)	10.50	10.50	9.30
Feed peas (\$/bu)	6.60	6.60	4.85
Maple peas (\$/bu)	8.50	10.00	10.00
Mustard, yellow, No. 1 (c/lb)	53.00	52.00	51.00
Mustard, Oriental, No. 1 (c/lb)	53.00	52.00	49.00
Mustard, Brown, No. 1 (c/lb)	36.00	36.00	36.00
Canaryseed (c/lb)	29.00	29.00	29.00
Desi chickpeas (c/lb)	27.00	27.00	27.00
Kabuli, 8mm, No. 1 (\$/mt)	903.90	771.60	771.60
Kabuli, 7mm, No. 1 (\$/mt)	551.20	507.10	507.10
B-90 ckpeas, No. 1 (\$/mt)	595.20	551.20	551.20

## Cash Prices

	Dec. 9	Dec. 2	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	164.23	161.35	150.74
Sfnlwr NuSun Enderlin ND (c/lb)	17.05	17.40	18.70

## U.S. Grain Cash Prices (\$/bu.)

USDA	Dec. 11
No. 1 DNS (14%) Montana elevator	4.68
No. 1 DNS (13%) Montana elevator	4.35
No. 1 Durum (13%) Montana elevator	6.75
No. 1 Malt barley Montana elevator	4.80
No. 2 Feed barley Montana elevator	2.40

## Grain Futures

	Dec. 14	Dec. 7	Trend	Year ago
<b>Wpg ICE Canola (\$/tonne)</b>				
Jan	477.50	469.40	+8.10	440.00
Mar	487.30	478.80	+8.50	436.80
May	494.90	486.80	+8.10	436.50
July	500.20	493.00	+7.20	437.60

	Dec. 14	Dec. 7	Trend	Year ago
<b>Wpg ICE Milling Wheat (\$/tonne)</b>				
Mar	242.00	238.00	+4.00	238.00
May	245.00	242.00	+3.00	240.00
July	249.00	246.00	+3.00	243.00

	Dec. 14	Dec. 7	Trend	Year ago
<b>Wpg ICE Durum Wheat (\$/tonne)</b>				
Mar	315.00	305.00	+10.00	357.50
May	320.00	315.00	+5.00	357.50

	Dec. 14	Dec. 7	Trend	Year ago
<b>Wpg ICE Barley (\$/tonne)</b>				
Mar	191.00	191.00	0.00	177.00
May	197.00	197.00	0.00	179.00

	Dec. 14	Dec. 7	Trend	Year ago
<b>Chicago Wheat (\$/bu.)</b>				
Mar	4.9350	4.8275	+0.1075	6.1900
May	4.9925	4.8975	+0.0950	6.2125
July	5.0350	4.9500	+0.0850	6.2025
Sep	5.1325	5.0500	+0.0825	6.2775

	Dec. 14	Dec. 7	Trend	Year ago
<b>Chicago Oats (\$/bu.)</b>				
Mar	2.3275	2.3525	-0.0250	3.1375
May	2.3125	2.3225	-0.0100	3.1725
July	2.3300	2.3325	-0.0025	3.1900

	Dec. 14	Dec. 7	Trend	Year ago
<b>Chicago Soybeans (\$/bu.)</b>				
Jan	8.7425	8.8225	-0.0800	10.3950
Mar	8.7600	8.8575	-0.0975	10.4600
May	8.8200	8.9175	-0.0975	10.5100
July	8.8850	8.9800	-0.0950	10.5600

	Dec. 14	Dec. 7	Trend	Year ago
<b>Chicago Soy Meal (\$/short ton)</b>				
Jan	275.5	278.0	-2.5	365.4
Mar	277.6	279.9	-2.3	353.9

SITTING PRETTY

A blue jay sits on a frosty branch during a light snowfall near Killarney, Man. | LILLIAN DEEDMAN PHOTO



# THE WESTERN PRODUCER

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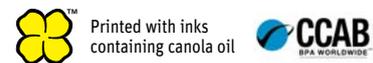
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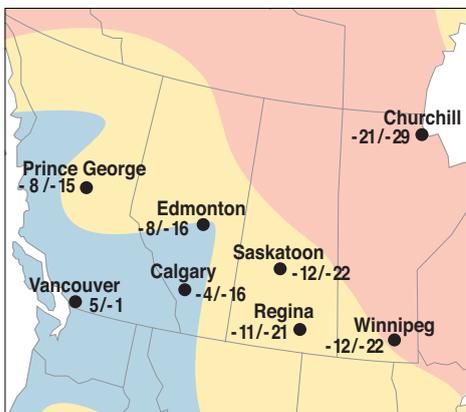
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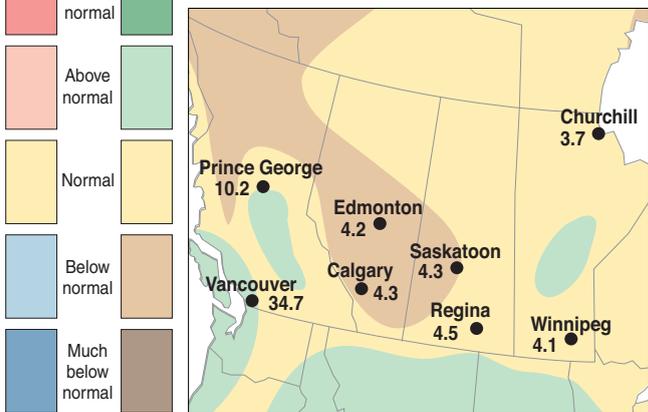


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**TEMPERATURE FORECAST**  
 Dec. 17 - 23 (in °C)



**PRECIPITATION FORECAST**  
 Dec. 17 - 23 (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.weather Tec.mb.ca](http://www.weather Tec.mb.ca) n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

**LAST WEEK'S WEATHER SUMMARY ENDING DEC. 13**

**SASKATCHEWAN**

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Assiniboia	9.9	-6.8	7.2	19.8	110
Broadview	6.9	-9.7	4.9	19.6	68
Eastend	7.8	-9.0	4.1	19.5	78
Estevan	10.4	-8.0	4.7	18.6	73
Kindersley	6.0	-9.0	11.2	36.3	210
Maple Creek	12.9	-6.4	2.1	24.3	107
Meadow Lake	0.9	-13.5	1.9	6.9	25
Melfort	0.8	-13.3	1.4	20.7	87
Nipawin	-0.9	-11.7	1.7	22.4	82
North Battleford	3.5	-10.3	2.2	15.4	63
Prince Albert	2.4	-14.4	3.3	28.1	107
Regina	9.8	-7.7	8.0	20.3	96
Rockglen	9.3	-7.7	8.2	20.9	108
Saskatoon	3.6	-8.7	1.4	20.4	94
Swift Current	11.5	-7.4	7.2	24.4	125
Val Marie	12.3	-12.3	6.9	22.5	122
Yorkton	4.3	-9.8	11.0	41.5	141
Wynyard	4.0	-14.5	10.0	39.2	151

**ALBERTA**

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brooks	11.3	-7.9	5.4	13.5	78
Calgary	9.0	-7.2	2.8	11.9	66
Cold Lake	-0.3	-8.0	5.0	25.9	94
Coronation	8.4	-9.5	4.9	13.3	77
Edmonton	4.1	-11.6	4.9	19.5	80
Grande Prairie	4.4	-13.0	5.4	40.6	118
High Level	-2.9	-17.7	3.4	6.6	18
Lethbridge	10.6	-6.7	2.5	17.0	81
Lloydminster	1.6	-9.1	1.8	14.2	57
Medicine Hat	10.6	-7.9	7.8	23.5	119
Milk River	10.8	-11.6	0.1	16.7	69
Peace River	2.7	-13.4	6.0	23.9	70
Pincher Creek	9.2	-8.4	29.9	49.8	120
Red Deer	7.5	-14.4	12.3	31.3	149
Stavely	8.4	-8.9	8.5	39.4	150
Vegreville	5.1	-11.1	3.0	20.5	91

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: [www.agr.gc.ca/drought](http://www.agr.gc.ca/drought). Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: [www.weather Tec.mb.ca](http://www.weather Tec.mb.ca)

**MANITOBA**

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Brandon	8.2	-10.6	13.8	32.2	110
Dauphin	5.6	-8.0	2.6	28.9	98
Gimli	3.3	-9.1	0.2	14.4	42
Melita	10.0	-15.4	4.6	19.8	66
Morden	11.6	-5.1	4.8	20.6	56
Portage La Prairie	8.6	-5.8	8.2	24.2	64
Swan River	0.1	-7.3	2.1	21.0	59
Winnipeg	5.6	-8.0	0.9	16.0	45

**BRITISH COLUMBIA**

	Temperature last week		Precipitation since Nov. 1		
	High	Low	mm	mm	%
Cranbrook	5.1	-7.4	35.0	97.5	143
Fort St. John	-1.5	-13.9	4.2	29.2	74
Kamloops	12.4	-3.5	8.3	42.0	102
Kelowna	11.9	-3.8	8.4	46.2	85
Prince George	8.2	-11.0	12.3	38.8	52

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