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WATCH AND LEARN | Rite Way's One Till shows off its ability to manage residue and soil during the live field demonstrations at Ag In Motion near Langham, Sask., last week. | ROBIN BOOKER PHOTO

CANADIAN AG PARTNERSHIP

Provinces balk at late participation in AgriStability

BY KAREN BRIERE
REGINA BUREAU

ST. JOHN'S, N.L. — Saskatchewan won't give farmers the option to enrol in AgriStability after yearly deadlines, and Agriculture Minister Lyle Stewart says other provinces will likely follow suit.

The provision was one of the changes announced in the new five-year policy framework, now known as the Canadian Agricultural Partnership, after last week's federal-provincial-territorial ministers' meeting in St. John's.

The CAP will take effect April 1, 2018, and remains at \$3 billion.

Stewart said ministers agreed on many aspects of the policy, but this was one he couldn't support.

"It's a piece that the feds were committed to; I don't understand it," he told reporters after the meeting.

"I respect (federal Agriculture) Minister (Lawrence) MacAulay for his stated goal of trying to increase participation in AgriStability,

SEE LATE PARTICIPATION, PAGE 5 >>

WEATHER

Dry summer, early harvest

Harder-hit farmers are baling their crops for livestock feed as hot temperatures hammer yields

BY BRIAN CROSS
SASKATOON NEWSROOM

It's shaping up to be a dry and early harvest across much of Western Canada this year, particularly in the southern grain belt.

High temperatures, extremely dry field conditions and lack of rainfall have caused crops to mature quickly and will result in

lower-than-average yields in many areas, particularly south of the Trans-Canada Highway.

Crop development across much of the southern Prairies is a week to two weeks ahead of normal with combining of pea and lentil crops already underway in some areas.

"It's definitely dry and definitely early," said Mike Carefoot, a grower from Swift Current, Sask.

"There will be some yield loss for sure, but I guess we should be thankful for what we have out there, considering the very low rainfall that we've had this year."

Carefoot said he was hoping to start harvesting early seeded field pea crops July 24-25.

That's an early start, but not the first time that Carefoot has taken off

pulse crops in late July.

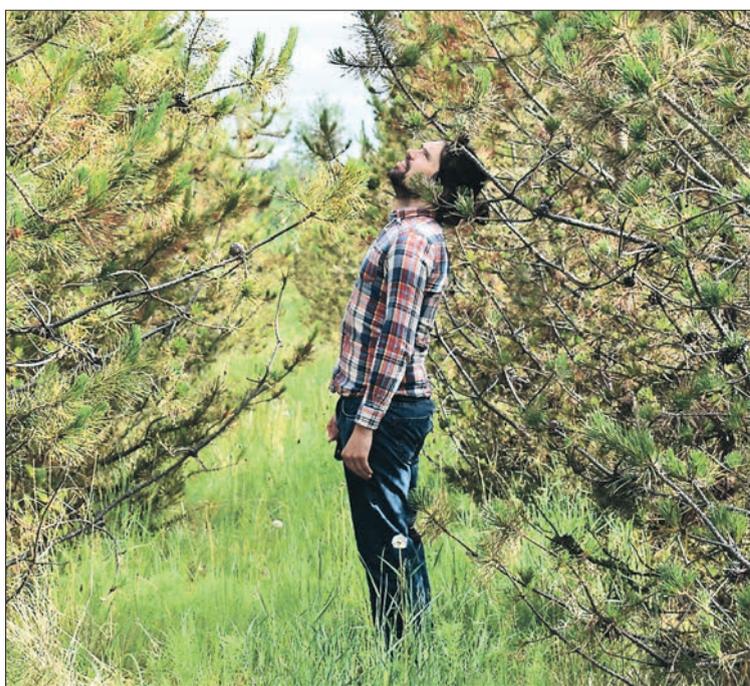
"We've had to combine this early before when it's this dry, but it seems to (be) about a week ahead of normal," he said.

Carefoot's farm, about 15 kilometres west of Swift Current, has had about 50 millimetres of rain over the past eight to 10 weeks.

SEE DRY SUMMER, PAGE 4 >>

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The Carbon Farmer: An Alberta farm grows forests to offset carbon production. See page 41. | BARB GLEN PHOTO

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WHAT'S HAPPENING @ PRODUCER.COM

FEATURES



Crop Tour Video
D'Arce McMillan talks to Bruce Burnett about the recent crop tour he conducted, where he looked at crops across the Prairies.



AIM Photo Gallery
Ag In Motion was held last week near Langham, Sask. Check out images from the farm show.



Dog Training Video
Stock dog trainers Dawn and Dale Montgomery put one of their border collies through the paces on their farm near Maple Creek, Sask.

VIDEOS

AIM Innovations
Mike Raine and AIM show director Rob O'Connor chat about ag innovation.



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



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MERIDIAN

HANDLING OPPOSITION

Animal rights activists begin targeting 4-H

Members at the Global 4-H Network Summit were given advice on how to respond if confrontations occur

BY KAREN MORRISON
SASKATOON NEWSROOM

OTTAWA — Be prepared, have a plan and avoid strong reactions when dealing with animal rights activists, delegates heard at the Global 4-H Network Summit in Ottawa earlier this month.

“Calm is the key,” said Cory Gooch, chair of the Calgary Stampede’s 4-H on Parade.

He and Leah Jones, chief executive officer of the 4-H Foundation of Alberta, say activists have moved from targeting events to sponsors to 4-H.

“They are very organized, strategic, and now are starting to come to 4-H,” said Jones.

She cited the 42,800 online shares received when a 4-H alumni posted, “nine reasons why kids should never join 4-H.”

Delegates also learned of 4-H cases where activists have untied animals in barns or disrupted

steer auctions.

When confronted with such incidents, Gooch and Jones said to call security services, do not confront or engage protesters, remove animals and young people if possible and assume the scene is being recorded.

“Thirty seconds are worth a million hits,” said Jones.

Jones said the momentum against livestock production is growing, fed by fewer people being raised on farms and a large group of millennials with easy access to information online and questions about how food is produced.

Giving human characteristics to animals further muddies the agricultural story and makes it emotional.

“When you see pictures of (animals) with sunglasses and cucumbers on their eyes, it’s hard to see them as protein on your plate,” said Jones.

Gooch said building the “social



CORY GOOCH
CALGARY STAMPEDE 4-H ON PARADE CHAIR

licence” to farm comes from building trust between producers and consumers.

“If we don’t do a good job, we get out of balance. That’s where the consumer has power,” he said.

“When looking for that social responsibility (to farm), if you’re not making genuine efforts, they can see right through that.”

4-Hers have a role to play as agriculture ambassadors, explaining the industry and food animal production and sharing positive

images of animal husbandry via social media.

Jones said activists have a strong consolidated message, so groups representing agriculture need to counter with information about their programs, policies and codes of conduct for animal care.

“Agriculture has a voice, but they’re either not hearing it or understanding it,” said Jones.

Tarilyn Mikel, a 4-H member with the Denim N Dust Club in Wisconsin, said why animals are handled a certain way or what the 4-H program offers is often misinterpreted.

“We have to share with everybody, activists and fence sitters, what it is about and maybe it would change minds,” she said.

Joshua Goede, 4-H and youth agent with the University of Wisconsin extension department, said 4-Hers are on stage from the time they load their animals at the farm until they leave the fairgrounds.

“Any kid in a livestock project

needs to understand they are in a position to teach and change minds, but more importantly they are there to take good care of their animal,” he said.

“You need to do the right thing every minute of every day.... This is where people are watching, this is where people are getting their information.”

Goede said 4-Hers can help the public understand that farmers want the best for their animals and have to take care of them for the business side to work.

Gooch and Jones advised bringing animals to shows in good condition, ensuring facilities, housing and handling facilities are prepared before bringing in stock and treating animals requiring care out of the public eye.

“Show the public we are conducting our business of agriculture and raising food responsibly,” said Jones.

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YEE HAW — FOR LITTLE ONES | Two-year-old Annalise Phillips is all smiles in the lead line barrels event at the Nanton Junior Rodeo held in Nanton, Alta., July 15-16. | MIKE STURK PHOTO

MANITOBA OUTBREAK

PED jumps across Red River, but expert confident spread is under control

BY ED WHITE
WINNIPEG BUREAU

Porcine epidemic diarrhea has spread to the west side of the Red River in Manitoba for the first time.

However, it has just barely crossed and the Manitoba Agriculture veterinarian overseeing control efforts thinks there is no reason it can’t be contained to that one tiny beachhead.

However, a risky time is approaching for many hog farmers who have had infected herds but will soon need to move market hogs.

“There will be scenarios where

pigs from infected premises will have to go to non-infected premises for finishing,” Glen Duizer said last week in a conference call “town hall” with Alberta hog farmers.

However, those pigs will be moving mostly within farmers’ operations: from their sow and nursery barns to finishing barns and staying within the already-infected regions.

PED infections have now been found in 59 Manitoba sites, although no new ones had been found in the week of July 19, which was a relief after the 16 found two weeks previously.

With new infections dropping from 16 to four to zero, Duizer said officials are hopeful the peak of the epidemic is past and that control methods are working.

The new outbreak zone is west of the Red River, in the Altona-Gretna area, and there are only two other hog farms near the one discovered to be infected with the virus.

The five kilometre special control zone around that farm, bringing with it special biosafety control measures, should be enough to stop it being the source of problems for other farms, Duizer said.

A multitude of measures are

being used to control the infection. Dead stock are being buried on-farm or transported to a landfill rather than being rendered.

Control zones have been set up around infected farms and along transportation routes so that little contact occurs between infected and uninfected areas and facilities.

Trucking companies and feed suppliers are operating dedicated lines of transport, making sure to not mix up the trucks that are servicing infected farms with those that are visiting uninfected farms. Packers are segregating ship-

ments from infected and uninfected areas and considering anything from a control zone to be possibly infected.

“We’re looking at segregated slaughter times, segregated management with specific transportation vehicles dedicated to those movements, with follow-up testing,” said Duizer.

Hogs moving off previously infected sites to finishing barns or to slaughter will be shown to be “non-shedding,” so they shouldn’t spread the disease any further.

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AG IN MOTION

Farm show sets new attendance record



BY ROBIN BOOKER
SASKATOON NEWSROOM

LANGHAM, Sask. — The Ag in Motion farm show set a new attendance record of 25,787, up 53 percent from last year.

There was also a drastic increase in exhibitor participation.

“In the first year of the show we had 200 exhibitors, the second year we had 302 and this year we had 409,” said show director Rob O’Connor.

The launch of the autonomous platform DOT turned out to be a show highlight as large crowds gathered to watch it move around and switch between seeding, spraying and seed tender modes.

There were also demonstrations that involved combines on a fall rye crop, tillage implements, sprayers, rockpulverisers, grain handling, new agricultural tire offerings and low stress cattle handling techniques.

Biotech, seed and crop input companies provided tours of their plots, which showcased the latest varieties and technologies. These were a major draw for farmers.

Ted Regier, who owns a small certified organic grain farm near Laird, Sask., said he grows varieties of fall rye and triticale that he was introduced to at Ag In Motion in previous years.

There were harvest demonstrations of fall rye crop at Ag In Motion this year. Here, farmers gather around a New Holland CR90 combine to monitor its performance at the show site near Langham, Sask. | ROBIN BOOKER PHOTO

CONTINUED ON NEXT PAGE >>

DRY SUMMER, EARLY HARVEST

>> CONTINUED FROM PAGE 1

Yield potential in his area and throughout southwestern Saskatchewan will be below average, although some growers will fare better than others, depending on soil moisture conditions at seeding time.

“We’re lucky we had fall moisture to start us off,” Carefoot said.

The situation is more desperate in other parts of southern Saskatchewan and Alberta.

Yield potential in many areas is expected to be well below normal as crops continue to suffer under extremely hot and dry growing conditions, said Brent Flaten, integrated pest management specialist with Saskatchewan Agriculture.

Grain growers are baling annual cereal crops for cattle feed in areas most severely affected by drought.

Hay supplies are also expected to be extremely short this year, so in some instances growers will be further ahead baling their crops and selling them as feed rather than harvesting grain where yields have been severely compromised.

Flaten said crop conditions and yield potential are variable across much of Saskatchewan.

In general, however, crops north of Highway 16 are in pretty good shape, those south of Highway 16 are more variable and those south of the Trans-Canada are suffering.

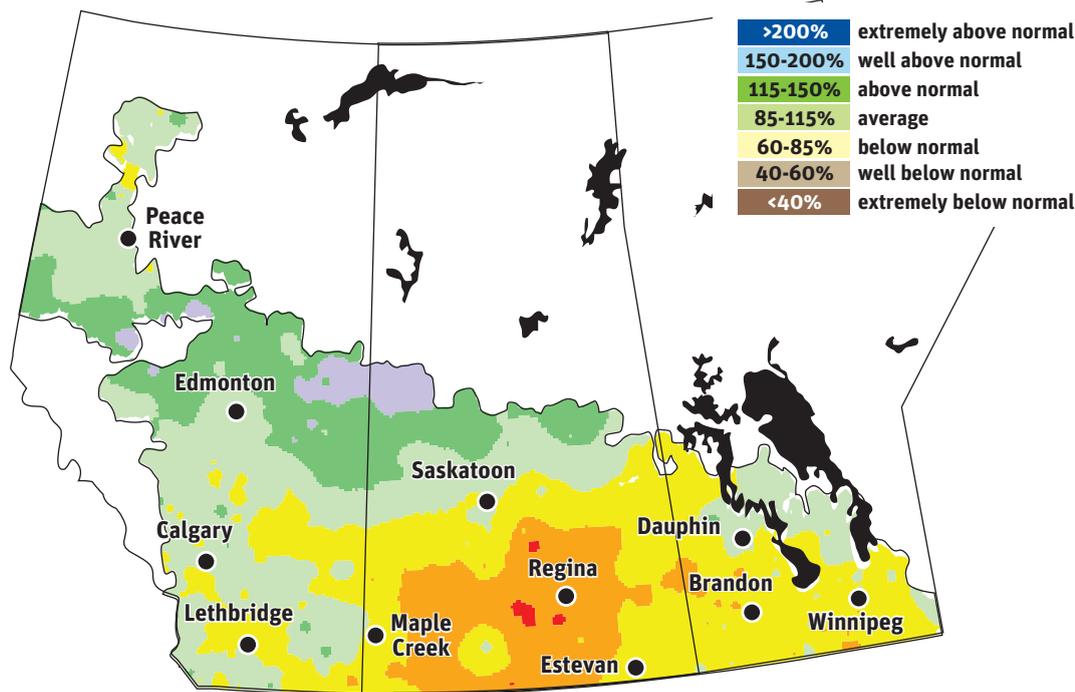
“The northern grain belt is generally in a lot better shape than the southern grain belt,” Flaten said.

“The worst hit areas are... south of Highway 1, west of Regina toward Leader and west of Weyburn,” he said.

In contrast, growers in the Saskatchewan’s far northeastern and far northwestern crop producing

DRY ON THE PRAIRIES

Percent of average precipitation, April 1-July 23, 2017



Source: National Agroclimate Information Service | MICHELLE HOULDEN GRAPHIC

areas have received more than enough rain this year and are coping with flooded fields and extremely wet crop conditions.

In southern Alberta, dryland harvest is already underway, said Lynn Jacobson, a grower from Enchant, Alta., southeast of Calgary.

Jacobson said early harvested pea crops in his area are yielding 14 to 15 bushels per acre and winter wheat is coming in at 10 to 20 bu.

“It’s dry, dry, dry,” he said.

“It’s going to be a below average

crop, for sure.”

Jacobson said yield potential on dryland farms will vary from area to area, depending on localized rainfall amounts.

In general, however, the 2017 crop will be smaller than average across much of southern Alberta.

Crop conditions and potential yields are generally better in the province’s central and northern grain growing regions, but crops in some parts of the province were late going in.

An early frost could cause considerable damage in some areas.

Despite variable rainfall amounts over the past two weeks, Manitoba has also been dry this year.

According to Manitoba Agriculture’s most recent crop weather report, only three of 95 reporting locations across the province recorded normal or above normal precipitation amounts between May 1 and July 16.

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A HOT, DRY WEEK

Temperature and precipitation data collected from Environment Canada reporting stations across the Prairies show it was a scorcher of a week from July 17-23 with very little rainfall reported at most stations. Here are the top 30 hottest, driest stations that week:

Location	max. temp (C)	rain (mm)
1. Medicine Hat, Alta.	35.2	0.0
2. Milk River, Alta.	35.2	0.0
3. Assiniboia, Sask.	34.7	1.4
4. Maple Creek, Sask.	34.5	0.4
5. Val Marie, Sask.	34.3	1.0
6. Lethbridge, Alta.	34.2	0.5
7. Coronach, Sask.	33.8	10.8
8. Rockglen, Sask.	33.6	7.6
9. Brooks, Alta.	33.3	0.2
10. Swift Current, Sask.	33.1	0.5
11. Regina, Sask.	32.8	0.5
12. Eastend, Sask.	32.3	0.0
13. Coronation, Alta.	31.1	0.9
14. Pincher Creek, Alta.	30.8	0.0
15. Calgary, Alta.	30.6	1.8
16. Stavely, Alta.	30.0	3.1
17. Estevan, Sask.	29.9	1.8
18. Saskatoon, Sask.	29.6	9.5
19. Broadview, Sask.	28.2	0.0
20. Wynyard, Sask.	28.2	21.0
21. N. Battleford, Sask.	28.2	34.7
22. High Level, Alta.	28.1	20.5
23. Yorkton, Sask.	28.0	42.7
24. Melita, Man.	27.8	7.8
25. Swan River, Man.	27.8	14.6
26. Melfort, Sask.	27.6	20.5
27. Brandon, Man.	27.2	19.8
28. Portage La Prairie	26.9	17.6
29. Dauphin, Man.	26.8	27.1
30. Morden, Man.	26.8	35.6

Source: National Agroclimate Information Service

SEE MORE WEATHER ON PAGE 55 >>

"The reason I do like the show is that we can see the different varieties, the newer varieties of grains, especially cereals and pulses that we do grow quite a bit of, and see how they actually perform in actual circumstances," Regier said.

Danny Chescu was shuttled to the show from Roblin, Man., by Crop Protection Services, and he said it would take days of visiting plot tours to see the number of varieties grown at the show.

"Plots are good to see, they are," he said. "It is a little disheartening to think I have such nice beans until I see the beans that are here. But at the same time, it is interesting to see new varieties and to talk to reps. I also was looking for a yard security system, and I found one here that I bought."

David Lavenders, who raises cattle near Edam, Sask., said he was interested in the corn plots because he grows lots of the crop for feed. He is also interested in trying cover crops on his farm, so he was looking to see what crops work in this region.

"To take a day off haying to come here was not something I really wanted to do, but I'm glad I did in the end," he said.

"I'm still going home to make hay until I'm done because it's going to rain tomorrow."

He also liked how the cattle handling equipment from different companies were laid out beside each other so they could be easily compared.

The show also had international visitors, which surprised O'Connor because it hadn't been advertised outside the Prairies.

However, he said a goal for the



After a tiny Kubota side-by-side took a load-on-the-go from a giant Claas Lexion 760 after the AIM combine field demonstrations, farmers came by to check out the new Bono hybrid rye that the machines were harvesting. | MICHAEL RAINE PHOTO

show is to facilitate international business for its participants.

"We're working with Saskatchewan Trade and Export Partnership

on how to refine that in terms of what we need to offer to both those international visitors and the companies wanting to export to those

countries," O'Connor said.

He said show attendees can expect an even larger event next year because there has already

been interest in more exhibitors who want to be part of the show.

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PROVINCES BALK AT LATE PARTICIPATION

» CONTINUED FROM PAGE 1

but I think this will have the opposite effect."

Sources said the federal government was adamant about including the late payment mechanism, but few provinces understood why.

Participation in the program, which is designed to cover income shortfalls, has dropped from about two-thirds of producers to one-third under the changes made for the current Growing Forward 2, and Ottawa was intent on turning that around.

According to the communique issued after the meeting, the late participation mechanism is designed to make sure all producers can access the program. However, it would be triggered only when a significant event occurs and would pay out 20 percent less than it does for those who enrolled on time.

Stewart said Saskatchewan has spent a lot of time and energy to convince farmers to proactively manage their risk by using available programs. He said allowing producers to enrol after they have a wreck, even if it is at 80 percent funding, and after others took those measures to protect themselves, will negatively affect enrolment.

"Late participation will not be available for Saskatchewan producers, and I believe a number of other provinces are going to take the same tack with that," he said.

Alberta minister Oneil Carlier said he had "some misgivings" over the mechanism but thought the overall agreement was a good one.

MacAulay said each province had to give up a little for the sake of

the agreement.

"Everybody had to put a bit of water in their wine to make sure that we come up with a policy that moves the agriculture sector forward," he said.

Manitoba's Ralph Eichler agreed, saying everyone had to do what was best for producers.

Other changes to business risk management programs for the 2018-23 period include altering the AgriStability reference margin limit to guarantee producers at least 70 percent of their reference margin.

"I think the reference margin shift was a great asset," MacAulay said.

"It allowed certain commodities to be able to access the program more. The fact is that it lets people in cow-calf operations and maple syrup farmers and blueberries and other sectors have more fair access to the program."

Stewart said that was one point on which everyone agreed.

Funding will be reallocated to make the programs cost-neutral, resulting in a reduction of the maximum allowable net sales eligible under AgriInvest to \$1 million from \$1.5 million. Government matching contributions will drop to \$10,000 per account, down from \$15,000.

Ministers noted that AgriInvest accounts currently contain about \$2.2 billion, which gives producers quick access to funds if needed.

Minimum payments under both AgriInvest and AgriStability will increase to \$250 from \$75.

As expected, ministers also agreed to a one-year review of BRM programs, with a specific focus on AgriStability.

An external expert panel that includes producers and academics will inform the review, and the ministers said broad industry consultation will take place. They are to consider options that would improve program efficiency, timeliness, predictability and cost-neutrality at their next meeting in Vancouver.

Ontario minister Jeff Leal, who pushed for the review at a May ministerial meeting, said he was pleased it will happen.

"Our particular focus in Ontario is seeing it from the producers' view, the folks that are on the back concessions and the kitchen tables, and to make sure as we go forward that BRM programs and the potential reform of BRM programs match the very laudable goals that have been outlined in the Barton report," he said, referring to the report that named agriculture as a main economic driver for Canada's future.

Ontario also wants the review to address coverage for regional disasters under AgriRecovery.

Each province still has to sign bilateral agreements with Ottawa for its non-BRM programming under CAP.

Stewart said Saskatchewan already offers programs that address the new priority area of environment and climate change, for example, so a bilateral should be fairly straightforward.

The Western Livestock Price Insurance Program will continue, although Stewart said it wasn't clear if it was a permanent part of CAP or still a pilot.

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CANADIAN AG PARTNERSHIP

Farm groups have lukewarm response to federal farm program changes

BY KAREN BRIERE
REGINA BUREAU

ST. JOHN'S, N.L. — The changes to AgriStability that were announced last week as part of the next policy framework have met with lukewarm response.

Government officials were to hold a stakeholder briefing this week to explain changes to business risk management programs under the Canadian Agricultural Partnership. The changes take effect April 1, 2018, and federal and provincial funding remains capped at \$3 billion for the five-year term.

However, some said they weren't sure how changing the AgriStability reference margin limit improves the program.

"Who knows?" said Todd Lewis, president of the Agricultural Producers Association of Saskatchewan. "At the end of the day I don't think fiddling with the reference margin is going to make a difference. It won't improve a bad program."

The RML change will guarantee all participants 70 percent of their reference margin. Currently, the benefits are calculated using the lower of a producer's reference margin or average allowable expenses in the years used to calculate that margin.

For example, a producer with a reference margin of \$100,000 and allowable expenses of \$40,000

under Growing Forward 2 is limited to using \$40,000.

Under CAP, a producer with those same numbers would have a margin of \$70,000 and use that figure in benefit calculations.

Federal Agriculture Minister Lawrence MacAulay said this change will allow low-cost producers who previously didn't qualify for AgriStability to participate.

To make the BRM programs cost-neutral, however, AgriInvest will be cut. The maximum allowable net sales will be \$1 million, down from \$1.5 million, and government-matching contributions will drop from \$15,000 per account to \$10,000.

Grain Growers of Canada president Jeff Nielsen said that will concern producers who thought AgriInvest worked well.

Ron Bonnett, Canadian Federation of Agriculture president, said the cut is disappointing.

"The reduced annual contribution limit under AgriInvest raises new questions about the adequacy of available BRM support," he said.

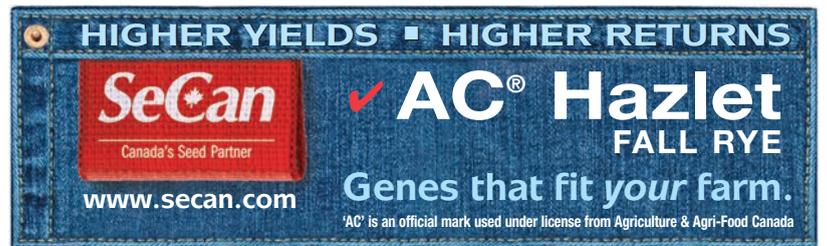
The Canadian Cattlemen's Association said it was still evaluating the changes.

All said they are looking forward to participating in the BRM review over the next year.

"Maybe there can be further tweaks," said Nielsen.

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MARKETS



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PRICE OUTLOOK

Durum up, but still behind spring wheat

Production of the crop is concentrated in the driest areas of Canada and the United States

BY SEAN PRATT
SASKATOON NEWSROOM

It took a while, but durum prices are finally catching up to spring wheat prices because of shrivelling North American yield prospects.

Durum is grown in the heart of the U.S. drought area of North Dakota and Montana. The hot and dry conditions have taken a heavy toll on the crop.

In Canada, reduced acreage and dry weather will shrink the crop here as well.

The U.S. Department of Agriculture has issued its first official forecast. Its July report pegged production at 57.5 million bushels, a 45 percent decline from 2016.

Average yield for the United States is estimated at 30.9 bushels per acre, the lowest since 2006.

"It came in even lower than most of us were expecting," said Erica Olson, marketing specialist with the North Dakota Wheat Commission.

She described the situation in southwestern North Dakota as "dire." Some farmers have already baled the crop for hay.

In the northwest it's a mixed bag. Scorching heat last week knocked the amount of the state's durum in good to excellent condition down to 14 percent from 24 percent the week before. In Montana, only four percent is good to excellent.



ERICA OLSON
NORTH DAKOTA WHEAT COMMISSION

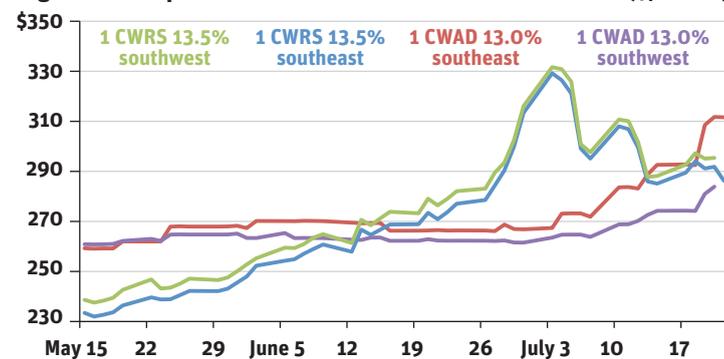
"Most of their production area is in a very, very dry situation, so their yield potential is probably even lower," said Olson.

Durum prices did not follow the spring wheat bull run for a while because millers thought there was

DURUM PRICES LAG

Spring wheat cash prices were rallying strongly by the second half of May as the drought took hold in the Dakotas, Montana and southern Saskatchewan. However, the durum cash market lagged behind. Durum has rallied only in July. These are regional prices collected by PDQInfo.ca. In southeastern Saskatchewan, durum is now a little stronger than spring wheat but in the southwestern part of the province, it still lags behind.

Regional cash price of No. 1 CWRS 13.5 vs No 1 CWAD 13 (\$/tonne)



Source: PDQInfo.ca | MICHELLE HOULDEN GRAPHIC

plenty of low quality carryout that could be blended with what is expected to be a good quality crop in 2017.

That was before they fully realized how much damage the drought has caused. On top of that, the USDA reported 36 million bushels of durum stocks as of June 1, down from the initial projection of 50 million bu.

"Your ability to blend is a lot less than the expectations were a few months ago. It has been a bit of an eye opener," said Olson.

Old and new crop prices have responded, rising about US\$2 per bushel in the last six weeks or so.

Bruce Burnett, director of markets and weather with Glacier FarmMedia, thinks the U.S. crop could turn out to be smaller than the USDA estimate.

"I wouldn't be surprised if it's less than that because the drought area is the durum area," he said.

Canadian durum acreage is down 17 percent from last year, and yields will also be lower. Burnett believes production will drop by about 20 percent and maybe more depending on how the rest of the growing season evolves.

Your ability to blend is a lot less than the expectations were a few months ago. It has been a bit of an eye opener.

ERICA OLSON
NORTH DAKOTA WHEAT ASSOCIATION

Agriculture Canada forecasts 5.7 million tonnes, down 27 percent from last year.

Prices for No. 1 durum in Canada are approaching prices for No. 1 CWRS. Durum usually trades at a premium to spring wheat.

Burnett said demand should be good this year.

Strategie Grains is forecasting 8.6 million tonnes of European production, down 13 percent from last year because of drought in Spain and Italy. However, it will be a better quality crop than last year.

North Africa's crop will be bigger than last year but still below average because a much-improved Moroccan crop is partially offset by poorer crops in Algeria and Tunisia.

Burnett believes there is still



Canadian durum acreage is down 17 percent from last year and Agriculture Canada forecasts a 27 percent drop in production.

| FILE PHOTO

potential for durum prices to rise if the North American crop continues to deteriorate from heat and dry weather or runs into trouble with rain at harvest.

He expects much-improved quality and higher protein levels than last year unless there are poor harvest conditions.

Olson said prices have temporar-

ily stabilized, but there is plenty of uncertainty in the market and a lot will depend on farmer selling.

"Some producers might be hesitant to sell, especially if they have a smaller crop," she said.

"They're going to be waiting for a higher price to make up for some of that yield drop."

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DURUM

Italian labels to create big hassle

Italian farm group says country-of-origin labelling will give it a 'competitive tool'

BY ED WHITE
WINNIPEG BUREAU

Canadian durum on Italian supermarket shelves will probably face discriminatory labelling in early 2018.

The country's agriculture and industry ministers have announced that the government is imposing a country-of-origin-labelling (COOL) scheme on packaged pasta that will require listing the origin of grain and where it was milled.

At the same time, Italy's largest farmers' organization has been campaigning against imported Canadian durum, describing it as "toxic" and insisting on import controls.

"We are putting Italy in the vanguard of Europe when it comes to labelling as a competitive tool," Italian Agriculture Minister Maurizio Martina said in a statement after announcing the intention to require COOL.

The requirements will probably go into force by about early February, following typical Italian regulatory timelines.

While the protectionist move is not a welcome one for Canadian farmers, exporters and marketers, it is expected to be limited both in terms of Italian imports and especially within the world market.

"We've seen this movie before," said Bruce Burnett, market analyst with Glacier FarmMedia.

"It might change our (export) destinations more than anything else."

Burnett and other analysts said Italy can't do without imported durum. Also, Canadian durum might be able to backfill in other markets if Italy consumes more of its own durum because of the new labels.

Italy was Canada's second-largest durum customer in 2016-17, having imported almost 700,000 tonnes by May. Its millers and processors are significant exporters and rely upon foreign durum to blend with domestic durum in order to stay competitive in world pasta markets.

The labelling rules will force food companies to say whether the durum was grown and milled in Italy, within the European Union, from outside the EU or from a combination of sources.

Italian millers and processors have fought the move, which threat-



If labelling rules are imposed, food companies will be required to say if the durum was grown and milled in Italy, the European Union or from outside the EU. | GETTY PHOTO

ens to make their products more expensive and hurt their ability to export to foreign markets.

The Canadian embassy and Canada's international trade and agriculture ministers have been lobbying against the threatened move for months and were not pleased to see Italy move ahead with COOL.

It's of great concern, and my officials are dealing with our officials in the European Union and to make sure that we have continual trade and that trade continues freely.

LAWRENCE MACAULAY
FEDERAL AGRICULTURE MINISTER

"It's of great concern, and my officials are dealing with our officials in the European Union and to make sure that we have continual trade and that trade continues freely," said federal Agriculture Minister Lawrence MacAulay.

"As you know, we have a history of this issue and we certainly don't like it."

Where the dispute goes from here is unclear because Italy has not followed EU rules on how to impose a regulation like this. The country is supposed to propose a

regulation, then have the European Commission assess whether it is acceptable under EU rules.

Italy proposed its rule, passed it onto the EU, but then imposed a differently worded regulation before the EU had commented on the original proposed rule.

Italy's COOL regulations could face a challenge from both the EU and at the World Trade Organization.

However, neither will likely stop the rules coming into force by early 2018, said Cam Dahl, president of Cereals Canada.

"These are not quick processes," said Dahl about the EU and WTO.

That means Canadian exporters and Italian processors will probably face complications within the year.

"This will impose additional costs on using Canadian durum because of segregation," said Dahl.

Saskatchewan Agriculture Minister Lyle Stewart said the COOL rules are a bad development, but Italy's decision to jump past the EU process might actually lead to the issue being resolved sooner.

"Italy is being very aggressive on this," said Stewart. "They've bypassed the EU process now and gone straight to the WTO, and I guess maybe that isn't altogether negative, although we had hopes the EU would stop this thing before it ever got to the WTO."

Market impact will likely be muted because of Italian millers' need for foreign grain. Burnett said Italy is a "value customer," buying lower grades of Canadian durum in order to blend with expensive Italian durum to keep product prices competitive. Previous Italian actions against Canadian durum have not had a major effect.

"Farmers get ticked (at seeing foreign durum being imported), they put some pressure on and the authorities suddenly 'find' things and try to block imports," said Burnett.

Dahl described the Italian government's action as "a very dangerous game for them to play" because Italian millers and pasta makers export a lot of their product, and the requirements of segregation will add costs for them.

"They have relied upon outside product to maintain a ... reasonable cost for their pasta products," said Dahl.

North Dakota Wheat Commission market analyst Erica Olson said protectionist moves such as COOL aren't good for North American exporters, but the commercial reality of Italy's milling and pasta industry suggest the impact won't be huge.

"They are a net importer of durum," said Olson.

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CROP OUTLOOK

Some get rain but heat fried many crops

MARKET WATCH



D'ARCE McMILLAN

Crop prices have rallied to a new, higher range, but the volatility within the range has increased as traders react to each changing weather forecast.

Prices rose last week as corn entering its reproductive stage in the U.S. western corn belt fried in temperatures in the mid 30s C.

They dropped back as cooler weather entered the forecast for this week.

Models show Midwest temperatures could stay moderate through the first week of August.

However, large parts of Iowa, Indiana and Nebraska, the top three corn states, still have significant rainfall deficits. In the eastern corn belt of Indiana and Ohio, there is too much rain.

The July 24 U.S. crop condition report's good-to-excellent rating for soybeans fell four percentage points, more than expected, to only 57 percent, compared to 71 percent last year.

Corn fell two percentage points to 62 percent, down from last year's 76 percent.

The northern Plains have been hot and in drought all through the growing season, and the spring wheat crop's good to excellent rating is only 33 percent, down one point from the previous week. Last year it was 68 percent.

The annual U.S. spring wheat tour that started early this week will issue a yield and production forecast to compare against the U.S. Department of Agriculture's forecast of 40.3 bushels per acre and 422.9 million bu., down 21 percent from 2016.

Our website will have the results of the tour and its forecast of production.

CONTINUED ON PAGE 8

WESTFIELD

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CROP TOUR

Patchy rain, drought produces mixed bag of crop conditions

BY D'ARCE MCMILLAN
SASKATOON NEWSROOM

After a 4,500 kilometre tour of the Canadian Prairies, Bruce Burnett, director of markets and weather with Glacier FarmMedia, confirmed what many suspect.

Crop yield potential in Western Canada is highly variable, and production will be less than in recent high production years.

"Variable is the word this year," he said.

Burnett covered large parts of Manitoba, Saskatchewan and Alberta, but did not make it to the Peace River region.

"For central and northern areas, we're probably looking at average, but when I say average, average is not the past couple of years. It will be significantly below the last couple of years, depending on the region that you are in," he said.

"There will be below average yields in the south for sure."

If the weather remains stressful, crop prices could see another rally.

In northern areas of Alberta and Saskatchewan that were wet in the spring, many fields show poor crop establishment. There is more unseeded area than usual. However, the area has been on a storm track that has delivered rain

through the growing season, and that is benefitting crops.

Crops in Manitoba, broadly speaking, are OK, but they will not produce the types of high yields seen in the past two years, he said.

In southern Saskatchewan, where heat and drought have been punishing, crops are under serious stress.



BRUCE BURNETT
GLACIER FARMEDIA

Generally, central areas that had good moisture reserves are hanging in, but with the recent heat are showing stress.

"July has been 2 to 3 C above normal. We are seeing quite a few days up in the 30s so we are seeing stress to the crop," he said. "For the most part, we are living off of last year's big rains. If it is dry for the next two or three weeks, it is not going to be an average crop there."

In the July 21-23 period, rain fell in a large area roughly north of a line running from Winnipeg to Saskatoon to Edmonton. Part of southwestern Manitoba also received rain, but otherwise, most areas south of the Winnipeg to Edmonton line did not get significant rain.

Areas south of the Trans-Canada Highway in Saskatchewan have among the most serious problems.

Burnett saw heat blasting in canola, and likely a number of canola crops in that region are going to be cases for crop insurance.

Because durum acreage is concentrated in this area, overall production could be severely hit.

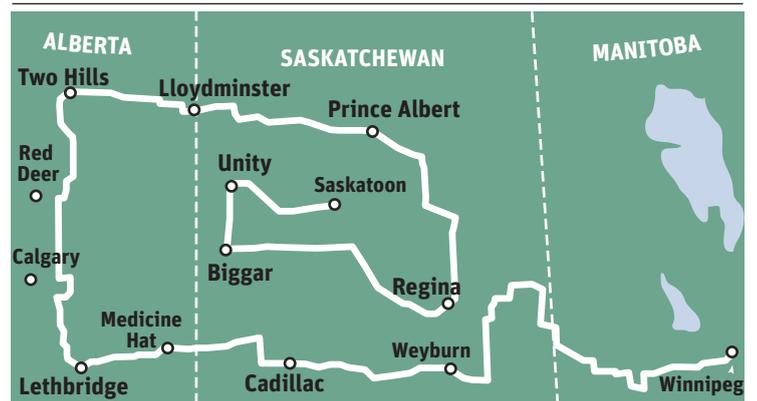
Crop maturity in large parts of the Prairies is where it should be for this time of year, but there are crops in northern areas where seeding was delayed that are behind and will need frost-free weather until Labour Day to fully mature.

However, if recent heat continues, that could help those areas catch up, he added.

As for crop prices, Burnett thinks there is room for a rally if the heat and dryness continue.

The potential size of the price increase would rise a lot if heat and dry weather stress the western part of the U.S. Midwest, which already has less than average moisture.

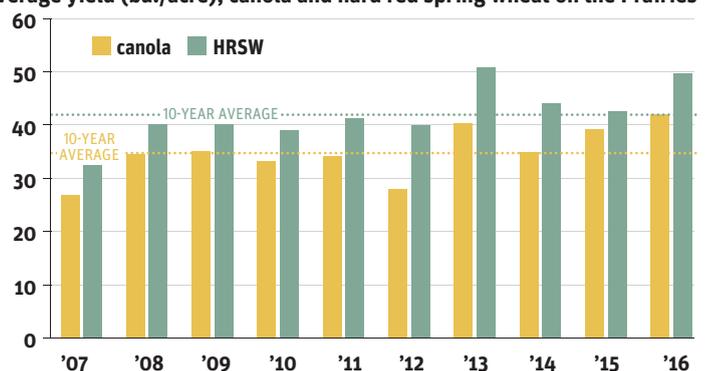
ON THE ROAD WITH BRUCE BURNETT



YIELDS EXPECTED TO DECLINE

Western Canada's crops are highly variable this year because of a wide range of weather conditions. Official forecasts for 2017 are not yet available, but Bruce Burnett, director of markets and weather with Glacier FarmMedia, believes yields in southern Saskatchewan will be below average. Based on conditions in the first half of July, Burnett believes average yields in other parts of the Prairies have the potential to be similar to long-term norms, but there will be significant variation.

Average yield (bu./acre), canola and hard red spring wheat on the Prairies



Source: Statistics Canada | MICHELLE HOULDEN GRAPHIC

Spring wheat has rallied a lot, largely because of the severe drought in the northern U.S. Plains. "Their crop is beyond salvation," Burnett said.

Spring wheat has a huge premium over hard and soft winter wheat. The winter wheat types are not in short supply so it is more difficult for them to rally.

Wheat futures generally would have more upside if the American corn crop got into trouble. So far, though, corn has not rallied much.

"The market is dialing in somewhere around 166-167 bushels an acre for U.S. average corn yield," he said, noting that with the below normal rain in the western Midwest, that yield target might be hard to reach.

"The yield is being set in the next two to three weeks. If you see corn (prices) take off, wheat will, too."

Burnett has written a report on his crop tour. To receive a copy, email him at bburnett@farmmedia.com.
darce.mcmillan@producer.com

MARKET WATCH

» CONTINUED FROM PREVIOUS PAGE

Spring wheat fell hard as this column was written July 24, perhaps because the premium of Minneapolis spring wheat over Kansas hard winter wheat, which topped \$2.50 a bu. last week, was seen as excessive.

Also, grain from the winter wheat harvests in the United States and Europe is starting to hit the market.

In Canada, recent rain has generally benefitted crops north of a line roughly from Winnipeg up through Saskatoon and on to Edmonton, although the unsettled weather also produced hail in some areas. Southwestern Manitoba also had luck with recent rain.

However, areas south of that line in Saskatchewan and Alberta generally got little to no rain and crops have suffered from above normal temperatures.

The other big factor affecting crop prices in Canada has been the rapid rally of the Canadian dollar.

As this column was written, the loonie was trading above US80 cents for the first time since May 2016. Only seven weeks before, in early June, the loonie was trading at less than 75 cents.

The loonie is rising even as crude prices are in the doldrums.

The spark for the loonie was the

Bank of Canada, which raised its key rate by a quarter of a percentage point July 12 and spoke optimistically about the economy's recovery from the effects of weak oil prices. However, just as the Bank of Canada turned more bullish, there is speculation that slower than expected inflation in the U.S. might cause the Federal Reserve to be less aggressive in its planned round of interest rate hikes.

The inflation rates in both countries remain well below the target of two percent held by both central banks. Further interest rate increases in Canada will depend on the Fed sticking with its increases.

CORRECTION: The July 20 Market Watch column had an error regarding the dry parts of the Prairies this growing season.

The column should have said that in the period from April 1 to July 16, much of Saskatchewan south of Saskatoon and almost all of Manitoba have had less than 85 percent of normal rainfall. Within that area a large region has had only 40 to 60 percent of normal rainfall and within that there are pockets that have had less than 40 percent.

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



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CANFAX REPORT

FED CATTLE STEADY

The Canfax weighted average steer price was \$144.02 per hundredweight, down 15 cents. Heifers were \$143.18.

Fed cattle prices have traded in a narrow range for three weeks. Packers are slaughtering at an aggressive pace, which is supportive to prices.

Packers are enjoying healthy operating margins, encouraging them to slaughter on Saturdays.

Steer slaughter in Western Canada topped 32,500 head two weeks ago, the most in the past eight years. The bid spread between the two major Alberta packers was \$5 dressed at the beginning of last week, but the difference narrowed as the week progressed.

Cattle bought last week were scheduled for delivery in the first half of August.

Carcass weights are rising, but grades are not improving. Canadian AAA and Prime as a percent of all A grades was just over 50 percent compared to about 62 percent last year.

The fed export pace in the last nine weeks has exceeded last year's pace. Exports have exceeded last year by a total of 20,000 head since mid-May.

Cash cattle in Kansas and Texas sold at US\$120 per cwt. July 21, steady with the previous week.

COWS DOWN

D1, D2 cows ranged C\$95-\$112 to average \$102.29, down \$4.71.

D3 cows ranged \$85-\$100 to average \$91.58.

Rail grade cows ranged \$193-\$198 delivered. Slaughter bulls averaged \$120.33, down \$5.17.

Weekly non-fed slaughter to July 15 rose 26 percent to 6,729 head. Slaughter is up nine percent for the year. Weekly exports to July 8 were 3,285. Exports are down 26 percent for the year.

Producers are concerned about dry weather. However, there has not been a lot of culling.

FEEDERS DOWN

Feeders lighter than 700 pounds, which would be sold into the second quarter of 2018, were sharply lower.

Feeders heavier than 700 lb., which would be sold in the first quarter of 2018, were steady.

There was buying interest from the United States and Eastern Canada.

Volumes at auction have been seasonal even with the hot, dry weather, which has caused pastures to deteriorate. Sales are up 18 percent for the year.

Exports in the holiday-shortened week to July 8 were small at 1,418 head. Exports are down 42 percent for the year.

The usual summer auction slowdown should end soon, and numbers should start to climb.

Issues such as feed costs and the value of the loonie will as usual determine price trends.

Barley prices have rallied about 50 cents a bushel in the past four weeks with an estimated \$10 per cwt. impact on 550 lb. steer prices.

Cow-calf pairs ranged \$1,800-\$2,700.

U.S. FEEDLOT NUMBER JUMPS

The monthly U.S. Department of Agriculture report was considered bearish. The drought in the U.S. Plains forced more cattle off grass, and feedlots, enjoying good profit margins, were happy to buy.

The number of cattle in American feedlots was 10.821 million, up four percent. The market expected a 2.9 percent increase.

The last time there was a month-over-month increase of more than four percent was in 2011.

Placements in June were 1.77 million, up 16 percent from last year. The market expected an increase of only 6.1 percent.

It was the largest June increase since that month in 2006.

Marketings in June were 1.989 million, up four percent. The market expected a 4.7 percent increase. That was the largest for the month since 2011.

Feedlots are buying lighter animals as placements increase. Placements under 800 lb. were up 27 percent.

BEEF EDGES LOWER

The July 20 Choice cutouts partly stabilized at US\$207.65, down only \$2.20, and Select was \$195.58, down \$1.68.

U.S. retailers prominently fea-

tured grilling items, which has helped to encourage more meat dining at home. Summer beef sales at restaurants have suffered as a result.

In Canada, the AAA price July 14 was C\$277.46, down \$8.76, and AA was \$255.74, up \$11.37.

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.

WP LIVESTOCK REPORT

HOGS PEAK

Hog prices appear to have peaked for the season as supplies increase.

The U.S. national live price average for barrows and gilts was US\$67.85 per hundredweight July 21, down from \$68.30 July 14.

U.S. hogs averaged \$83.33 on a carcass basis July 21, down from \$86.40 July 14. The U.S. pork cutout was \$102.78 per cwt. July 21, down from \$104.48 July 7.

The estimated U.S. weekly slaughter for the week to July 22 was 2.213 million, up from 2.195 million in the previous week.

Slaughter was 2.141 million last year at the same time.

In Canada the average Signature Five price for the week to July 22 was C\$202.47 per 100 kilograms, down from \$208.56 the previous

week. The average price on a per hundredweight basis was \$91.84, down from \$94.60 a week earlier.

BISON STEADY

The Canadian Bison Association said Grade A bulls in the desirable weight range sold up to C\$6.30-\$6.50 per pound hot hanging weight. U.S. buyers are offering US\$4.75 or more with returns dependent on exchange rates, quality and export costs.

Grade A heifers sold up to C\$6-\$6.30. U.S. buyers are offering US\$4.50. Animals outside the desirable buyer specifications may be discounted.

LAMBS STEADY

Ontario Stockyards Inc. reported

that 862 sheep and lambs and 92 goats sold July 17. New lambs sold at lower prices. All other classes of lambs, sheep and goats sold steady.

Beaver Hill Auction in Tofield, Alta., reported that 384 sheep and 148 goats sold July 17.

Wool lambs lighter than 54 lb. were \$245-\$300 per cwt., 55-69 lb. were \$257-\$300, 70-85 lb. were \$252-\$282, 86-105 lb. were \$215-\$254 and 106 lb. and heavier were \$215-\$228.

Wool rams were \$100-\$130 per cwt. Cull ewes were \$90-\$141.

Hair lambs lighter than 54 lb. were \$220-\$260 per cwt., 55-69 lb. were \$230-\$270, 70-85 lb. were \$240-\$269, 86-105 lb. were \$210-\$235 and 106 lb. and heavier were \$200-\$221.

Hair rams were \$107-\$120 per cwt. Cull ewes were \$85-\$152.



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Roto-Shear is now owned and manufactured by Free Form Plastics. Roto-Shear owners know that when harvesting lodged or tangled crops like canola and peas, this is an essential piece of equipment that they would never be without again. When time matters most, Roto-Shear has proven itself to be dependable in the toughest harvests, cutting through tangled and lodged crops with speed and efficiency.



PRODUCT PROMOTION

Successful Year of Pulses campaign offers valuable tips

The United Nations' 2016 International Year of Pulses was a smashing success. There's a lot to be said for a focused and dedicated effort to educate consumers about food and farming.

We can learn from this success.

First, let's take a look at just how well this initiative worked. The UN launched the International Year of Pulses to "raise awareness about the protein power and health benefits of all kinds of dried beans and peas, boost their production and trade, and encourage new and smarter uses throughout the food chain."

Pulses have a heck of a story to tell: high in fibre, protein and B vitamins, they also are considered environmentally sustainable because they leave nitrogen in the ground, and they are inexpensive compared to meat proteins.

The International Year of the Pulses targeted 18- to 34-year-olds — the millennials — who might have grown up seeing lentils tucked in the back of their pantry to be used by the cook of the house for making soup.

Using social media, advertising and the health media, the campaign blew past its goal of 500 million media impressions, rolling up 3.44 billion. Incredible.

The U.S. Department of Agriculture estimates domestic consumption of pulses increased by 157 percent in 2016-17 to 900,000 tonnes over the previous year.

It's important to note that there are other benefits to this initiative. Increased demand for pulses gives farmers another viable crop in the rotation and another opportunity for export, as well as encouraging more research spending and more investment in infrastructure. (For example, earlier this year Roquette announced a \$400 million pea processing plant to be built in Portage la Prairie, Man.)

This was no fluke. The UN's International Year of Quinoa in 2013 also yielded great results.

Canada is now responsible for 35 percent

of the world's pulse market and is the world's largest exporter of pulses. Yet there is much more room to grow.

So, what did we learn?

First, this campaign showed that getting farmers and industry experts out there promoting farm products — whether it be the crops themselves or the food benefits — can work extremely well, especially when you do it in a big way. So think big. Someone came up with an audacious idea to get the UN to proclaim a year of the pulses. It might have seemed a bit out there at the time, but it sure worked.

And when you're targeting health conscious consumers, social media is exceedingly fertile ground when it's used well.

As well, get the health industry onboard. Celebrity chefs are popular. Engage them. That's not a new idea, but it's a good one. Wolfgang Puck and Michael Smith are popular today, but the Galloping Gourmet, Graham Kerr, would have been successful promoting ideas back in the day.

Also, engage all aspects of the food chain: farmers, food processors, government and retailers. Together, they are a powerful force.

And plan ahead. The UN made the decision to name 2016 the International Year of Pulses back in 2013 to give the industry plenty of lead time to organize.

Focus on social movements such as health and environmental sustainability. They gain traction.

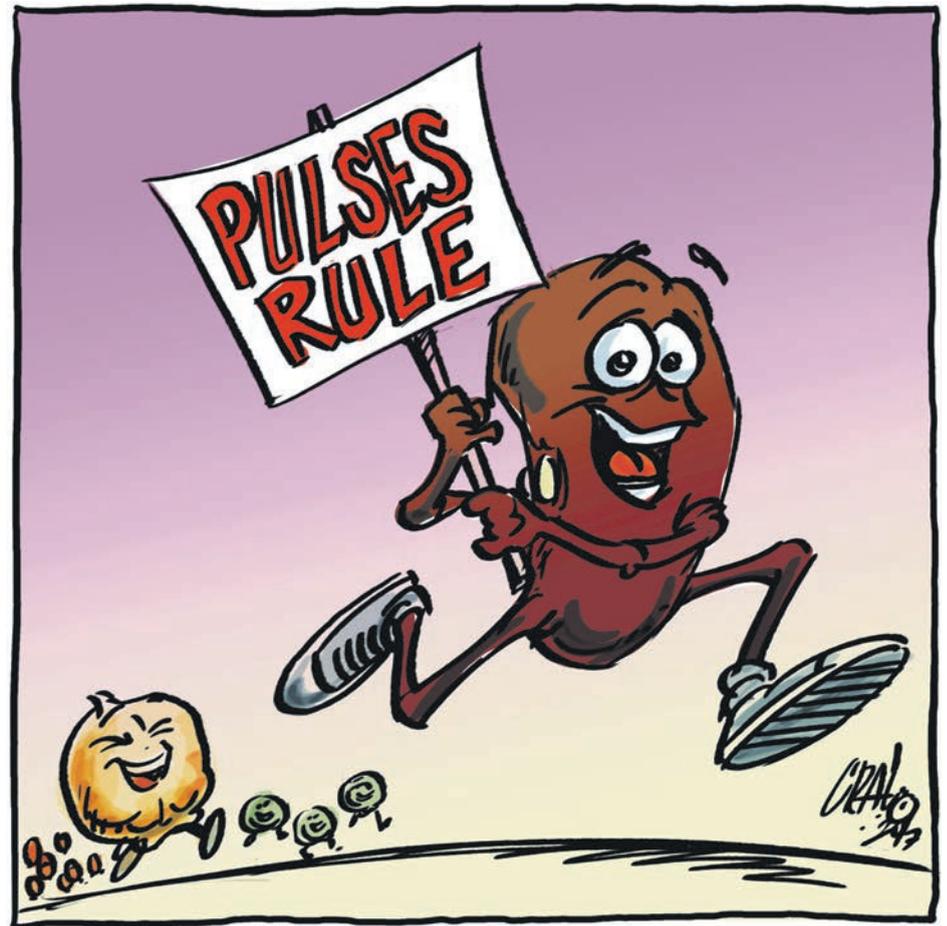
Find ways to make it attractive — there are lots of good recipes out there with pulses.

And, as U.S. Dry Pea and Lentil Council chief executive officer Tim McGreevy noted, identifying pulses as a solution to people's fears about weight gain and heart disease helps to capture consumers' attention.

The success of the International Year of Pulses is a good blueprint for future communications on agriculture.

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

CRAIG'S VIEW



4-H AND ANIMAL RIGHTS ACTIVISM



Any kid in a livestock project needs to understand they are in a position to teach and change minds, but more importantly they are there to take good care of their animal. You need to do the right thing every minute of every day.... This is where people are watching, this is where people are getting their information.

JOSHUA GOEDE,

4-H AND YOUTH AGENT, UNIVERSITY OF WISCONSIN, PAGE 3

PREPARING FOR NAFTA NEGOTIATIONS

Canadian politicians on mission touting ag trade benefits

CAPITAL LETTERS



KELSEY JOHNSON

The steady stream of Canadian cabinet ministers flowing south to the United States shows no signs of slowing.

Agriculture Minister Lawrence MacAulay is the latest to make the journey with a trip to Oregon and Idaho, which included stops in Portland, Sun Valley and Boise.

The latest trip is meant to highlight how important trade between the two countries is to their respective agricultural sectors, officials at Agriculture Canada told reporters. MacAulay is also scheduled to make the keynote address at the Pacific Northwest Economic

Region Summit and the Western Association of State Departments of Agriculture annual meeting.

The interconnectedness of Canada-U.S. agriculture is well-known within the sector. It's a \$47 billion relationship with Canada the top agricultural export destination for 29 U.S. states.

The average Canadian consumes \$629 worth of American agricultural and food products compared the \$69 Americans spend on Canadian goods, Agriculture Canada data shows.

Our long winters and short growing seasons mean we're a key destination for U.S. fruit, vegetable and nut exports, as well as processed goods, beef, pork and beverages.

"Don't mess with our current access" was the main message U.S. farm groups sent to Washington during their consultations over the North American Free Trade Agreement negotiations, which are slated to start soon.

It's a plea that's been echoed

north of the border.

American trade officials have promised to maintain current duty-free and tariff-free access, one of several priorities outlined in the U.S. trade department's list of priorities for the upcoming renegotiation of NAFTA.

Under American trade rules, officials are required to release a list of priorities to Congress before formal talks can begin. Canadian negotiators are not required to do the same.

The first round of NAFTA talks has been scheduled for Aug. 16 in Washington with Canada, Mexico and the U.S. all reportedly eager to finish negotiations before the Mexican presidential election in 2018. Seven rounds are planned, with meetings scheduled every three weeks.

Whether that timeline is achievable remains anyone's guess. Trade negotiations have an uncanny ability to go sideways.

Then there's the ongoing bureau-

cratic vacancies south of the border. U.S. President Donald Trump's pick for chief agricultural negotiator Gregg Doud still hasn't been confirmed by the Senate — a delay Canada's own chief agricultural negotiator Frédéric Seppey recently highlighted in trade updates to Canada's agriculture ministers and industry.

No stranger to agriculture, Doud is currently the president of the Commodity Markets Council, a position he's held since 2013. He currently lives on a horse farm in Maryland and has worked for the National Cattlemen's Beef Association as well as the U.S. Wheat Associates.

Washington has flagged improved American access to Canada's wheat market as a trade priority. Canada's wine and dairy sectors have also been tagged.

Ottawa has remained tight-lipped on its NAFTA hopes to the dismay of opposition groups. Conservative and NDP MPs on the

House of Commons trade committee have triggered a special summer meeting ahead of the NAFTA talks to try and figure out what the Liberals hope to achieve.

Foreign Affairs Minister Chrystia Freeland has agreed to appear in front of the committee Aug. 14, two days before the formal Washington talks are expected to start. She will be accompanied by unnamed Canadian trade officials. The meeting will last two hours.

Opposition parties had requested Finance Minister Bill Morneau, International Trade Minister François Philippe Champagne, Prime Minister Justin Trudeau and NAFTA chief negotiator Steve Verheul also to appear before committee. The Liberals rejected those requests.

In the meantime, expect that cabinet ministers to continue visiting as many influential American policy makers as they can.

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

& OPEN FORUM

SAFETY ASSURANCE

Food standards trigger trade benefits

BY FOOD AND AGRICULTURE ORGANIZATION

Developing international food standards for trade is essential if countries are to reap the benefits of booming global trade and prepare for imminent technological changes.

Developing countries, in particular, should invest in the capacity and skills to achieve effective engagement in institutions and multilateral bodies such as the World Trade Organization and Codex Alimentarius, the world's primary international food standards setting body.

The *Trade and Food Standards* publication offers a concise explanation of how international food standards are set and applied.

It advocates for deeper involvement by developing countries in both the harmonized food standard setting processes in Codex Alimentarius and the WTO's sanitary and phytosanitary and technical barriers to trade committees.

"When food standards and international trade work hand-in-hand, they help to ensure food safety, as well as improved nutrition across the globe. This can help to promote growth and development and to deliver on many of the new sustainable development goals," said WTO Director-General Roberto Azevêdo.

More effective engagement also has the potential to make the \$1.7 trillion international market in agriculture products more inclusive, allowing small-scale food producers and processors to participate in large-scale value chains.

To achieve this, governments



A man works on a banana plantation on Nicaragua's Ometepe Island earlier this month. Developing countries are urged to take the steps that will allow them to participate in the international organizations that set food standards. | REUTERS/OSWALDO RIVAS PHOTO

must devote attention and muster national consensus on their food policy priorities.

Such an approach is increasingly imperative in a time of growing consumer concerns about microbes, pesticides, food additives and nutrition and of greatly increased technological abilities to control the quality, safety and origins of food products.

"Food safety and food standards are crucial to unlock the potential of an important tool to fight hunger, which is trade," said FAO Director-General José Graziano da Silva.

"Public and private sectors, operators from all parts of the food

value chain, civil society organizations, academic and research organizations — all have essential roles in developing sound and credible systems of food safety management."

While emerging economies have recently begun to increase their participation in key Codex and WTO committees, levels of participation by many least-developed country members remain low.

One key message of the book is that countries will get most value from participating in such work if they bring together government officials and agriculture, health, industry and trade experts, as well as consumer and producer

groups, to identify national food safety and quality priorities and identify possible means to address them.

The publication also illustrates some of the drivers of change in the area of food regulation — digitalization, new production and processing technologies and e-commerce, as well as labelling trends, new trade deals and changing dietary and consumer preferences — that will all have an increasingly profound impact on the food trade and food safety landscape.

Traceability of food products is increasingly obligatory to allow for the rapid response to outbreaks of food-borne disease.

Methods to measure radiation, pesticides and other chemical contaminants in food are increasingly sensitive and underline the growing importance for developing countries' capacities to assess associated risks and to appropriately manage and communicate them.

Such developments pose formidable challenges to many developing countries, where food control, inspection and certification systems are often in their infancy and supply chains are often fragmented and not well developed.

The WTO, FAO and others have created the Standards and Trade Development Facility to disseminate best practices and support projects to help developing countries enhance market access by complying with international standards.

The Food and Agriculture Organization is an agency of the United Nations.

CARBON TAX

The new carbon economy

EDITORIAL NOTEBOOK



MICHAEL RAINE
MANAGING EDITOR

Our recent series of carbon stories, coverage of the Agricultural Producers Association of Saskatchewan's Prairie Carbon Summit and my last week's column seem to have sparked a few of you to reach out to me.

That's what we like at *The Western Producer*, and I know that APAS's goal was also to inform and involve prairie farmers. So, good-on-ya, as they say Down Under, where they abandoned carbon taxes but kept market-based carbon pricing that farmers can sell.

I received several emails, phone calls and a few texts that suggested our coverage failed to discuss whether climate change is real.

In my mind that would be like wading into a slough to find out how deep it is. Does it really matter? It's still a slough and unless I have a drainage permit, I can't change that.

However, if it's big enough, I could irrigate from it, and that is how we need to approach carbon taxes and pricing going forward.

The war over climate change and global warming is over. So continuing to encourage skirmishes is not time or money well spent for Canadian farmers. Best to focus on creating public policy that mitigates new costs that have a cooling effect on farms' balance sheets.

If Canada were a room with 100 folks in it, farmers would take up one chair. Food and ag combined would get a small table of four, depending on how you count them.

Even if all of ag believed that climate change isn't caused by greenhouse gas emissions, which they don't, the vast majority of Canadians do. And that is all that matters. Some might change their minds when gas goes up to \$1.35 per litre, but for the moment we need to get on with being seen to do the right things and mitigating exposure to the expense.

Despite President Donald Trump's bravado, the U.S. will at some point be meeting the Paris Accord's requirements for market reasons. For now it creates opportunity for Canada to show that we can deliver on our promises and market our clean image: clean air, clean water, clean food production.

Let's go get some market share, but first we need the other 96 folks in the Canadian room to allow some public policies that let us profit from our efforts.

Debates over climate change won't put silver in producers' pockets, but they will tarnish our shiny industry in consumers' minds.

mike.raine@producer.com

AGRICULTURE POLICY FRAMEWORK

AgriStability reference margin change a good start

HURSH ON AG



KEVIN HURSH

There won't be many accolades and certainly no victory parades, but federal and provincial agriculture ministers are doing a number of things right when it comes to the business risk management programs.

Starting in 2018, the next five-year agriculture policy framework will officially be called Canadian Agricultural Partnership, and while funding for farm safety nets isn't being increased, at least it isn't being cut.

Crop insurance funding is being maintained. It's the most important of the farm safety nets and the one most used, understood and

appreciated by producers.

It was good to see the Western Livestock Price Insurance Program maintained. It's a great tool to protect against dropping market prices.

The only program cost for government is administration because the guaranteed prices along with currency fluctuations are hedged, making this a great service for a government program to provide.

The insurance programs are attractive as long as market prices are strong. That won't always be the case. When prices drop, the other safety nets are supposed to kick in.

Chief among those is the much maligned AgriStability, and on this program an important change is being made. Starting in 2013, AgriStability program benefits have been calculated based on a producer's reference margin, or average allowable expenses, whichever is less. This decreased the value of the program to many producers, especially those with low costs.

A producer's reference margin is determined by excluding the high-

est and lowest program margins in the previous five years and averaging the remaining three.

Many producers had their current year's margin fall below 70 percent of their reference market, but they didn't have a claim or as large of a claim because of the limited reference margin rule.

The allowable expenses from the three years used to calculate the reference margin were averaged. If that amount was less than 70 percent of the reference margin, that number was used instead.

This limited reference margin is being eliminated starting in 2018. It is a positive move, but unfortunately it won't likely be enough to bring producers back into AgriStability. Lack of participation will be a big problem when the farm economy hits its next big speed bump.

To pay for the change to AgriStability, a minimum payment of \$250 is being implemented for both AgriStability and AgriInvest. More significantly, the net sales eligible for AgriInvest are being reduced

from \$1.5 million to \$1 million. With the one percent government contribution, the maximum payment per farm will be \$10,000 rather than \$15,000.

Governments are undertaking a review of business risk management programs with a specific focus on AgriStability. Why the heck this sort of review wouldn't have been conducted years ago is a mystery, but better late than never. The agriculture ministers want options brought forward to their 2018 summer meeting to improve timeliness, simplicity and predictability, but any changes will have to be cost neutral.

AgriStability and the whole suite of business risk management programs will be in the spotlight at some future date when agriculture is in a serious economic downturn. The time to make these programs as effective as possible is now.

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

LETTERS POLICY:

Letters should be less than 300 words. Name, address and phone number must be included for verification purpose.

Open letters should be avoided; priority will be given to letters written 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 WP.

CANADIAN RESOURCES

To the Editor:

Re: *The Fraser Institute of Canada Debt Report*

Interesting and shocking. The Fraser institute delivered a stunning combined monetary debt report, a total of \$4.1 trillion. Included is federal, provincial, municipal and household debt.

If the Fraser Institute could somehow balance those numbers against Canada's northern wealth in natural resources, a much brighter financial picture would surface. Canada is sitting on one of the most productive energy deposits in the world, along with unlimited markets.

Rest assured future generations with strong fortitude will pass legislation where sufficient transportation is attainable to the nearest seaport for delivery of Canada's land-locked production to overseas markets.

Developing Canada's north is a must, and forget about the thousands of uninhabitable square miles of worthless, tundra thus harvesting valuable natural resources below the surface would become a reality. A strict limit must be enforced upon work stoppages

of projects approved by government.

Compare Canadian pipeline construction with that of the United States: in the time it took to reject 1,400 kilometres of Keystone XL Pipeline, 19,200 kilometres of American pipeline was constructed.

In a worldwide oil play, where every other country does whatever it can to develop its oil and gas reserves, how is it that Canada is the only player actively taking itself out of the game?

Every province and territory in Canada has benefited tremendously from northern oil extraction. Over the next short while, the north has the potential of generating \$1.5 trillion in federal and provincial taxes and royalties and 500,000 direct and indirect jobs, if progress is permitted to continue.

OPEN FORUM

Across the country, do you realize how many roads, bridges, hospitals, schools and research facilities that money could build?

Hopefully complete elimination of irresponsible protest groups will disappear.

John Seierstad
Tisdale, Sask.

BEE POPULATION

To the Editor:

I am not certain of the timeline but a number of years ago we witnessed the decline of our bee populations. A few years following that our scientific world came to state that a certain chemical was to blame.

Following behind, or perhaps in tandem of our bee population decline, I also noticed our flying insect population in general was falling. This year I noticed next to no flying insects. I used to drive any road or highway and the windshield and radiator would be inundated with flying insect hits such that regular windshield washing was required. Not this year.

Last week I was working in my garden. Years ago while doing that I would be surrounded with a constant hum from all our insects.

The last two weeks our farming community has been very active with applying disease spray on heading or blooming crops, more so than other years.

More farmers spraying more chemicals each year on more acres. Spray for weeds before seeding, spray for weeds after crop is up, spraying for diseases, spraying for certain insects, spraying before harvest and finally spraying for weeds before freeze up. How many times was a certain field sprayed?

If a certain chemical uses was causing our bee population to nose dive, maybe using all those chemicals has polluted our environment to the point that all our little flying friends are telling us to stop and think deeply very soon. Killing off all our insects can not be good.

Delwyn J.J. Jansen
Humboldt, Sask.

COMMUNITY HOSPITALS

To the Editor:

Re: small town hospitals are a lifeline for the community

I am writing this letter from the Roblin hospital waiting to be discharged having spent the night here. At 4:30 p.m. on Friday I received multiple wasp stings at the Lake of the Prairies. My EpiPen was more than 100 kilometres away. By the time I arrived to the Roblin Hospital the allergic reaction was in full force. Thanks to Dr. Maluka and the nursing staff for saving my life.

This example illustrates why all communities must maintain their health facilities. In 1996, hospitals across Canada centralized because Jean Chretien cut \$13 billion from health. Paul Martin followed and left Stephen Harper a \$12 billion surplus, which he wasted. In 2016 the Canada health accord expired and Harper refused to renew it.

Justin Trudeau didn't do much better. He played the divide and conquer game with the provinces. Manitoba still hasn't signed on.

Politicians of all stripes have cut health care under the guise of saving money. Is saving money more important than saving lives?

As one becomes a senior citizen one realizes that all the money in a bank account cannot buy back health. When governments close hospitals, cut nursing care, cut ER access and response, they are putting your life on the line.

Municipal governments and citizens must stand up against these detrimental cuts. Remember, only the squeaky wheel gets the grease. Don't wait until it's too late. Write letters, telephone and lobby your MP and MLA and local government.

Inky Mark, former MP
Dauphin, Man.

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PULSES 2017

Pulse safety becomes more urgent

BY SEAN PRATT
SASKATOON NEWSROOM

VANCOUVER — Food safety is becoming a more pressing issue now that pulses are being incorporated into packaged foods, says a safety expert.

In the past, pulses were largely sold whole or split. The end user provided the “kill step” when they cooked the product at home, killing off any dangerous bacteria.

However, pulses are now increasingly being consumed in ready-to-cook or ready-to-eat products. They are being incorporated into pastas, snack bars, vegan meat substitutes and baby food, which shifts the safety onus onto food processors and manufacturers.

“This is the biggest challenge that the industry is facing,” said Beatrice Conde-Petit, food safety officer for the Buhler Group.

The industry has to ensure the pulses are free of harmful bacteria such as E. coli, salmonella and bacillus cereus.

It was once thought that food-borne illnesses were the domain of animal-based food, but now it is known that they can also be caused by plant-based food.

There have been massive recalls of nuts, sesame seeds, wheat, spices and sprouts.



BEATRICE CONDE-PETIT
BUHLER GROUP

Conde-Petit said food safety starts with getting clean product from farmers using good agronomic practices.

One big misconception held by farmers and grain handlers is that there is a kill step somewhere down the line, so they don't have to worry about food safety.

“No. You need to care,” she told a small group of delegates from the Pulses 2017 conference.

The kill step typically involves a cooking or roasting process, but what about pulses used in cereal bars or other ready-to-eat food?

Buhler has screened many non-thermal technologies and has decided on ebeam, which uses accelerated electrons to kill bacteria. It is a low-energy beam that gently touches the surface of dry food materials. Conde-Petit said it allows for decontamination without the use of steam or chemicals and it doesn't produce wastewater.

A prototype is being tested in Germany on spices. It can decontaminate one tonne of food per hour. Buhler hopes to have a commercial launch of the product next year.

The final food safety protocol is maintaining proper hygiene after the kill step so the food isn't re-contaminated with bacteria.

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PULSES 2017

Pulse group says label rules hinder marketing

Promoting the crops' high protein and low glycaemic index is not allowed in Canada and the U.S.

BY SEAN PRATT
SASKATOON NEWSROOM

VANCOUVER — Government regulations are preventing pulses from meeting their full market potential, says Pulse Canada.

Chris Marinangeli, director of nutrition, science and regulatory affairs with the organization, said food labelling regulations in Canada and the United States are overly restrictive.

Half a cup of black beans, chickpeas or lentils contains about nine grams of protein, which is a significant amount.

Yet food manufacturers in North America are not allowed to adver-

tise that pulse-based products are a good source of protein because they don't meet a certain protein quality threshold.

“I could not make a protein claim on the food, but I could in Europe and Australia,” Marinangeli told delegates attending Pulses 2017.

“This is a good example of how the regulatory environment is a hard stop from tapping into those messages that are actually mattering to the consumer.”

Another example is the regulatory roadblock preventing food manufacturers from advertising that pulse-based food has a low glycaemic index. High glycaemic food can cause a spike in blood sugar levels.

The International Carbohydrate Quality Consortium recently said there is an urgent need to communicate glycaemic index information to the general public through dietary guidelines, food composition tables and food labels.

In Australia, companies can make glycaemic claims as long as the food meets a certain nutrient density threshold.

Diabetes Canada is working with Pulse Canada to help convince Health Canada to adopt a similar model as Australia.

“The good news is that Health Canada has opened the door a crack and is investigating permitting carbohydrate quality labelling

on food,” said Marinangeli.

The other thing Pulse Canada would like to see is more countries adopting modern dietary guidelines.

“What we are seeing with the development of new dietary guidelines is that interplay between environmental sustainability and nutrition are creeping their way into the mix,” he said.

Countries such as Holland and Norway have food guidelines that incorporate sustainability goals that encourage consuming pulses, which don't require a lot of water and fix their own nitrogen.

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DAIRY FARMERS OF CANADA

Dairy farm signs up with sustainability program

ProAction consists of several production modules that carry operating procedure standards

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — The Crozier family has been on the same farm for 120 years and has always been willing to change and adapt.

Owned by Leonard, Jason and Brett Crozier, Cheslen Dairies west of Edmonton was among the first in Alberta to adopt robotic milkers.

As a result, it wasn't a stretch for the farm to say yes when it was asked to test ProAction, a wide-ranging sustainability program initiated by Dairy Farmers of Canada.

Quality milk, animal welfare, environmental care, biosecurity and food safety modules are being introduced over time with standard operating procedures set down for every aspect of a modern dairy.

"All this stuff is good for a farmer. It is a lot of extra paperwork and it takes more time, but consumers want to know where their food is coming from and they want people to be environmental stewards, so we have to give them what they



JASON CROZIER
CHESLEN DAIRIES

want," Jason Crozier told a tour group hosted by Dairy Farmers of Canada.

"It is a lot of common sense."

Like many farmers, he wants a program with consistent operating procedures so that everyone takes the same approach.

"If we can make a template that is easier for the farmers, it is not so time consuming," he said.

"There is nothing in the standard operating procedures that you shouldn't be doing."

The farm has introduced a computer network that monitors the operation from a smartphone, an environmental farm plan and new guidelines for animal care such as pain treatment for procedures such as dehorning.

"It is a changing dynamic and everybody has to get on board with it," Crozier said.

Animal traceability is the newest component in ProAction. It requires a double ear tagging sys-



A calf at Cheslen Dairies wears two ear tags as mandated by Dairy Farmers of Canada. The dairy uses the tagging system to activate robotic feeders identifying each animal and portioning out food.

BARBARA DUCKWORTH PHOTO

tem and records filed with the Canadian Cattle Identification Agency.

Every animal must receive two tags by the time it is seven days old. Bull calves that are leaving the farm can wear the yellow button radio frequency identification tag from the CCIA.

The tag has an electronic component embedded with a unique 15 digit identifying number attached to a plastic dangle tag. One is inserted to face forward and the other is backward.

The last four numbers of the identifier are visible on the dangle tag so

they can be read at any time.

The Croziers attempt to tag their heifers within hours of birth. They receive an extra yellow management tag once they are bred to ensure that their 170 milking cows are well identified.

They also use the tagging system to activate robotic feeders with a panel reader that identifies the individual and determines how much feed it can have.

The traceability component also requires a premise identification number, and nearly all dairies have complied, said Melissa Lalonde of Dairy Farmers of Canada, who

handles traceability within the ProAction program.

"We are at 99 percent compliance in Canada. That is the highest level of compliance of the commodity groups," said Lalonde.

Tagging is proceeding well partly because all the breed associations want the animals to wear two tags as part of the registration process.

"The herd right now is 75 percent dual tagged already," she said.

Double tagging is mandatory by Sept. 1, although it is already mandatory in Quebec.

barbara.duckworth@producer.com

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DAIRY FARMERS OF CANADA

Animal care, traceability first topics in ProAction initiative

BY BARBARA DUCKWORTH
CALGARY BUREAU

EDMONTON — Continuous improvement is a farmer's goal, and for dairy producers that could be achieved through an initiative called ProAction.

The national program sets standards for quality milk, animal care, traceability, biosecurity and environmental care.

However, rather than imposing it on farmers in one fell swoop, modules are being introduced slowly.

"In September of this year we are going to be implementing the animal care module and traceability," David Wiens told the Dairy Farmers of Canada annual meeting held in Edmonton July 18-19.

Animal care includes assessments that measure body condition and producer efforts to reduce lameness and injuries to feet, hocks and necks. More than 1,200 farms have been assessed in this area so far.

Another pilot project involves ways to prevent animal abuse.

"We will work with DPAC (Dairy Processors Association of Canada) to set up a pilot project which enables us to set up a team of independent veterinarians who would ask and look into maltreatment of animals. This tool would allow us to intervene more quickly," Wiens said.

"These modules will continue to evolve and we will continue to see improvement both with the pro-

gram and we will see continuous improvement on the farms as well."

A new manual is set for release in September on food safety, while training for on-farm biosecurity starts around the same time.

Farms are evaluated and validated by trained classifiers from Holstein Canada.

A pilot program is also underway to test how well each module has been integrated into a single on-farm program.

"We want to have one program on the farm and we want to streamline as much as possible and make it as easy as possible for farmers and validators," he said.

The environment module is in development, said Karen Clark of DFC.

The pilot module relied heavily on the current environmental farm plans. Clark is part of a committee working on a national program to standardize plans across the country, which means the ProAction module may be delayed until this is formulated.

"That way we would at least ensure we would have a level of uniformity," she said.

She is also involved in developing a life cycle analysis to assess the dairy sector's environmental and carbon footprint.

A symposium on dairy sustainability will be held in Ottawa Nov. 7-8.

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FARMLIVING

HEALTH FORCES CHANGE

An Alberta farm family has switched to growing less conventional crops after one member developed a gluten intolerance. | Page 16



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GLOBAL 4-H NETWORK SUMMIT

4-H 'saved me as a child': gay speaker

Awareness and acceptance are improving, but delegates at 4-H summit warned to learn about laws when travelling

BY KAREN MORRISON
SASKATOON NEWSROOM

OTTAWA — Bed-wetting was part of the emotional turmoil Jeff Howard endured as a child dealing with his homosexuality.

He said he knew he was gay by age seven but never shared it.

"I would pray to God to please make this stop.... 'I want you to fix me,'" the state director of University of Maryland Extension 4-H Youth Development said during a session at the Global 4-H Network Summit in Ottawa this month.

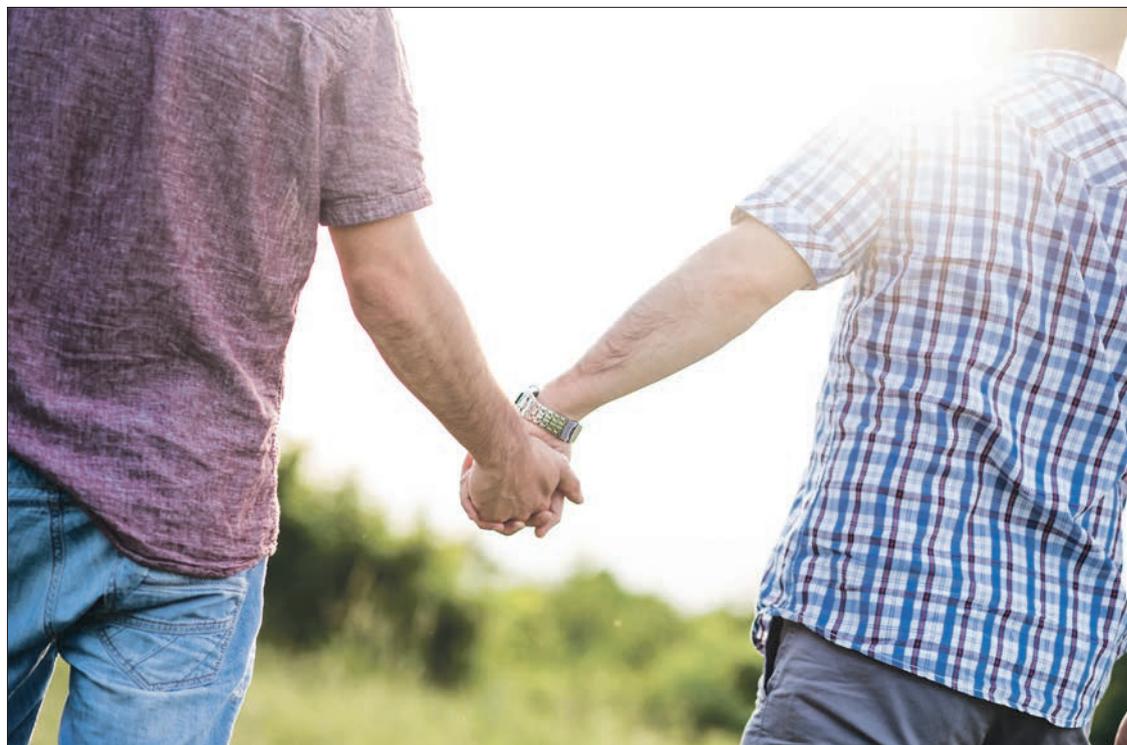
Raised in an ultra conservative Christian farming family in Texas, he said his father used corporal punishment when he wet the bed. He believed his father didn't like him and was often referred to as a sissy.



JEFF HOWARD
UNIVERSITY OF MARYLAND

It was in 4-H that Howard found solace and positive activities that he could do with his family.

"I found an outlet where I was celebrated for the things I could do rather than what I couldn't do. The leader accepted me uncondition-



Homosexuality is illegal in **76** countries, including Tanzania, where the next global 4-H summit will be held in 2020

ally," he said. "I believe that saved me as a child."

A Centre of Disease Control study on youth risk behaviour reported higher rates of suicide and self-harm in the homosexual population than among heterosexuals.

LGBTQ (lesbian, gay, bisexual, transsexual, queer) youth are at a

higher risk of violence from bullying and teasing than their straight counterparts. They are also twice as likely to attempt suicide.

4-H delegates discussed ways to create "safe and same" environments that are inclusive and nurturing for all young people.

"As we reach out to new audienc-

es, there is a larger possibility of including LGBTQ so you have to be prepared to nurture and understand them as they come into the program," said Howard, noting many are coming out earlier because of improved awareness and acceptance.

Howard said language and forms

should be gender neutral, listing words like parents instead of mother and father.

Be aware of signs of bullying for all young people and educate members that homosexuality cannot be cured, caught or chosen.

"When you're born, you're either straight or gay," said Howard.

He warned leaders and young people to be aware of the laws when travelling, noting homosexuality is illegal in 76 countries, including Tanzania, where the next global 4-H summit will be held in 2020.

"Social media is a connection, there is knowledge about you," he said.

Participants agreed that if children reveal their sexual orientation to 4-H leaders, it should not be shared.

"It's inappropriate for us to tell the parents. It's their (children's) decision," Howard said, noting many gays are not comfortable coming out to their own families.

He suggested educational workshops for volunteer leaders to increase awareness.

Cera Youngson, 4-H Saskatchewan's executive director, plans to work with her provincial 4-H counterparts to create policies to address inclusiveness.

She said it will help them prepare for situations that might arise, such as rooming options for persons identifying by gender.

"Even though we don't have a specific policy in place, it's always been our intent that 4-H is a place for all youth," she said.

karen.morrison@producer.com

GLOBAL 4-H NETWORK SUMMIT

Undies tell all — about soil health

BY KAREN MORRISON
SASKATOON NEWSROOM

OTTAWA — 4-Hers were challenged to use critical thinking skills to debunk bad science and wade through the infinite virtual world of information during a presentation at the Global 4-H Network Summit in Ottawa earlier this month.

Clayton Robins, executive director of the Manitoba 4-H Council, told young people to dig deep.

"Seek out the truth and help change the conversation so we can do better going forward," he said.

Critical thinking involves making judgments based on reasoning, considering options, drawing conclusions and making judgments in addition to reflecting on your own and others' thinking about infor-

mation that is received.

Robins encouraged young people to view information on debates about topics such as climate change from a more scientific perspective to weed out what is legitimate.

"When you see charts describing what's going on, it's easy to make it look like it's related or causing something else but it might not be. It might be complete bunk," Robins said. "This is stuff you might be able to interpret as legitimate if you don't do your homework and critical thinking."

International delegates raised challenges faced in their own countries, including food security, pests and soil degradation.

As homework, Robins gave them two cotton 4-H face cloths to bury

in separate locations when they returned to their farms and communities. They will be dug up in September to see how much they change.

This Soil Your 4-H Face Cloth experiment mirrors the Soil Conservation Council of Canada's Soiled Undies campaign, which determines if soils have a healthy amount of microbes, bacteria, minerals, earthworms and fungi by the state of the underwear.

The more microbial activity in the soil, the more it breaks down and the better the condition of the soil.

"We need to do a better job of managing our soils going forward for building regenerative food production systems and resilient systems that we know we can rely on."

karen.morrison@producer.com



The Soil Conservation Council of Canada's Soiled Undies campaign was designed to show how healthy soil, alive with microbes, bacteria, minerals and fungi, breaks down and regenerates soil.

| KAREN MORRISON PHOTO



ABOVE: Kevin, June and Kole Lundie switched to growing specialty crops from conventional ones. RIGHT: June, who is the president of the Lacombe Art Guild, created this painting of the Lundie farmhouse. In July, she purchased a local art gallery, which she renamed Main Gallery and Framing Studio.

| MARIA JOHNSON PHOTOS



ON THE FARM

Health issue forcing switch to niche crops reaps rewards

Growers learn how to grow and market gluten-free crops

BY MARIA JOHNSON
FREELANCE WRITER

LACOMBE, Alta. — A diagnosis of severe gluten intolerance in 2003 forced central Alberta grain farmers to make some radical changes in their farming operation.

Kevin Lundie and his wife, June, and son, Kole, 21, no longer grow gluten based crops on their 500 acre farm.

"My family physician said I shouldn't even be exposed to the (grain) dust," said Kevin.

This spring, they planted canola, flax, peas and canaryseed.

"None of these crops had ever been planted on our farm. It's been a horrendous learning curve," said Kevin.

"Specialty crops require different treatments, different nutrients," said Kole.

He said half of the seed is purchased in Saskatchewan because it's not available in Alberta.

"People share what works and what doesn't. Then we modify for our own needs and abilities," said Kole, who spends hours researching online and talking to people by phone.

The Lundies employ minimum till strategies to reduce their carbon footprint and trade land with a nearby seed potato farmer who employs a four-year rotation.

"Potatoes put a lot of nutrients into the soil," said Kole.

The family has not yet been affected by Alberta's recent heat wave.

"We're in good shape so far. Nothing is suffering yet," said Kevin.

While their markets are more limited than with traditional cereal crops, the Lundies use a grain marketer and secure sales themselves.

"We are working in a niche market. We can stay small and be successful," said Kevin, noting land is expensive and not readily available.

June, a city girl turned farm wife, compared her life to socialite Lisa Douglas's from the 1960s TV sitcom *Green Acres*.

The men manage the fieldwork while June, unlike Douglas, is a master in the kitchen. Her culinary expertise elevated her to the top 40

nationwide on CBC's *Recipe To Riches* in 2013.

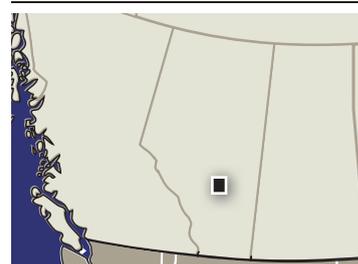
June said cooking without gluten is challenging.

"It's hidden in so many things. I can't just walk up and down the aisle in the grocery store. I have to stop and read the list of ingredients," she said.

Kole is the fourth generation of Lundies to farm the gently rolling parkland situated between the Rocky Mountain foothills to the west and flatter prairie to the east.

His great-grandfather, John Lundie, acquired the property through the Soldier's Settlement Board, which assisted returned soldiers to set up farms.

ON THE FARM



THE LUNDIE FAMILY
Lacombe, Alta.

Grandfather Richard and a great uncle took over the farm, which eventually passed to Kevin and June.

Kevin's parents, Richard and Peggy, saw the farm as a lot of hard work and unpredictability with little return and discouraged Kevin and June from farming.

The land was rented out for a period of time but they reconsidered a couple of years after Kole's birth in 1996.

June attributes this to Kole's love of farming.

"He was born with it. It's all he talks about 24-7," she said.

All three work off farm. Kevin does road and rig construction in the Alberta oil patch, where he has seen a welcome increase in activity over the past year.

June recently purchased and manages a Lacombe art gallery and framing studio while Kole works in the aviation industry.

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FAR LEFT: Jake Holodniuk, left, plays a giant Kerplunk game with Hilary Block at the 4-H Fun Zone at Ag in Motion July 20.

LEFT: Kaisley Hrabarchuk aims a plastic horseshoe at hooped targets as Hailey Hogg looks on.

ABOVE: Ezra Block focuses on putting together a tiger puppet.

4-H FUN ZONE

Crafts and games drew children to the 4-H play area at the Ag in Motion farm show held near Saskatoon July 18-20. | KAREN MORRISON PHOTOS

ENTREPRENEURS

Cheese enterprise booming for former munitions expert

Venture has family scrambling to meet demand for its flavoured cheese and curd

BY BARBARA DUCKWORTH
CALGARY BUREAU

VERMILION, Alta. — The Old School Cheesery at Vermilion, Alta., is turning into a destination for connoisseurs of locally produced artisan foods.

“The plan was to make some goat cheese, but when I did my market research I found out that Canadians only eat two kinds of cheese: cheddar and mozzarella. So we changed our business plan to make cheddar and cheese curd,” said owner Patrick Dupuis.

He was looking for a business opportunity before he retired from the Canadian military in 2015. He was based at CFB Wainwright as a munitions and explosives expert and realized he needed a new career as he transitioned to civilian life.

He had completed bachelor and masters degrees in commerce and wanted his own business.

Originally from Quebec, he and his wife, Josee, loved homemade cheeses and decided that could be the right opportunity for them.

Working with a business mentor from Calgary as well as taking training courses in cheese-making at the University of Guelph and milk processing at the Leduc food processing centre, they opened for business last fall.

The Dupuis family gets raw cow's milk from Alberta Milk and plan to add 50 goats this fall to expand their product line.

They live on an acreage near Vermilion and started work last March to convert a Quonset into a milk processing and cheese-making facility. They picked up equip-

ment from a closed cheesery at Kitscoty.

Their daughter, Valerie, works with them full time, while their son, Sebastien, helps at the farmers markets. Their daughter, Victoria, works on a sheep station in Australia.

The family sees the business as a long-term enterprise for the adult children to take over in the future.

The business has taken off beyond their expectations and Patrick attributes much of that to the changing demographics in Alberta.

He said 7,000 to 8,000 people leave Ontario and Quebec and come to Alberta every year.

“They bring their taste buds with them and they like cheese curds.”

They started advertising the plant by word of mouth and roadside signs. Local media covered the opening and the customers started to flock to their farm.

Fresh cheese curds have a rubbery-like texture that makes it squeak when you eat them.

Social media changed everything with encouragement from Valerie.

“I really had to prod him. He was really against Facebook for so long and I finally told him this was the number one social media account,” she said.

Added Patrick: “The power of it is unbelievable and people are sharing information.”

Their main outlets are farmers

markets and pop-up markets.

Every week, they go to Alberta farmers markets at Bonnyville, St. Paul, Lloydminster, Vegreville, Vermillion, Sherwood Park and two Edmonton markets.

Dupuis also struck a deal with a local Fas Gas outlet with a corner store. No one was sure if people would buy cheese curds from a gas station but demand is strong.

They started by offering four 450-gram bags and now deliver 14.5 kilograms every few days.

Working with a local meat processor, they have developed a pepperoni and cheese curd snack that is sold at the corner store and a local school. Local restaurants, a golf club and four retail outlets also take their cheeses.

Patrick starts the morning with cheese-making at 4 a.m. and finishes with packaging at 9 p.m.

“In the business plan for the first year, I had included that I would not make money this year,” he said.

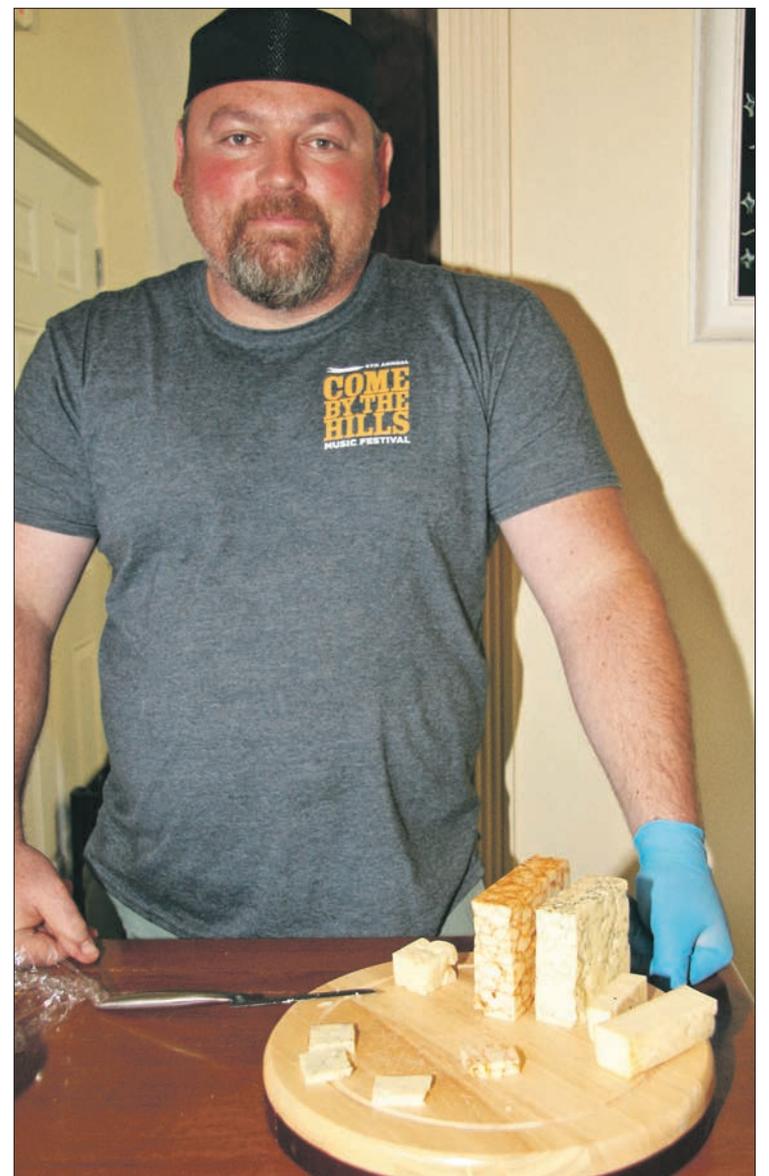
“The goal was to get to three batches a week in a year to be in the black. It took me three and a half months to get to three batches and now I am up to five batches,” he said.

Patrick also did not expect to buy a second vat for another three years.

The Dupuis couple pasteurizes 2,500 litres of raw milk per week, up from 1,000 litres when they started. Patrick plans to double production when a new cheese vat arrives.

“We will be able to make in two days what we make in one week,” he said.

The product line continues to grow. Besides fresh curds they



TOP: Patrick Dupuis, who opened the Old School Cheesery at Vermilion, Alta., last year, says he cannot keep up with the demand for his product line. The cheesery adds flavours such as dill, peppercorn and chipotle. | BARBARA DUCKWORTH PHOTO

make cheddar, brie, mozzarella and camembert.

They have created their own recipes, and product lines include cheese with dill, chipotle and garlic and a smoked cheddar.

“Our goal is to follow the seasons: herbs in the summer, peppercorn in the fall and cranberry or berries of any kind for Christmas time,” said Patrick.

No preservatives or artificial

colours are used.

“It is basic cheese like Mom and Grandma used to make,” he said.

Their cheese is sold in Canada, the United States and France.

“I was selling some cheese (at a farmers market) and a lady bought a big brie and came back and said that was the best cheese she ever had,” said Patrick.

barbara.duckworth@producer.com

GARDEN PRODUCE

Reap what you sow — garden flavours to savour

TEAM RESOURCES



BETTY ANN DEOBALD, BSHEC

Nothing compares with the taste of fresh, locally grown produce, especially young peas, carrots, beans, potatoes and onions. Enjoy them in salads, on the barbecue or in a sauce or preserve the flavour in a batch of baby vegetable pickles.

MARINATED CARROTS AND PEAS SALAD

1 lb. baby carrots	500 g
4 oz. edible pod peas	115 g
1-2 green onions, sliced or 1/4 of a red onion	
1 green or yellow pepper, cut into stripes	
1/4 c. sugar	60 mL
1/2 c. canola oil	125 mL
1/2 c. balsamic vinegar	125 mL
1/2 tsp. dry mustard	2 mL
1/2 tsp. Worcestershire sauce	2 mL
1/2 tsp. salt	2 mL
1/4 tsp. pepper	1 mL
2 tbsps. toasted sesame seeds	30 mL
fresh mint	

Wash carrots and cut large ones into long strips. Wash and remove the tips of the edible pod peas. Combine with the carrots, then add onion and pepper.

Whip the sugar, oil, vinegar, mustard and Worcestershire sauce together until well blended and add salt and pepper. Mix and pour over the vegetables.

Toss to coat vegetables. Cover and refrigerate overnight. Lift vegetables out of dressing into a salad bowl, sprinkle with sesame seeds and fresh mint and serve.

Leftover salad can be returned to the dressing and refrigerated for another day. Serves eight.

BARBECUED BABY VEGGIES

1/4 c. canola oil	60 mL
1/4 c. lemon juice	60 mL
1 tbsp. fresh dill chopped	15 mL
1 tbsp. fresh basil, chopped	15 mL
ground fresh pepper	
1/2 clove garlic, crushed	
small potatoes, baby carrots, young beans, young edible pod peas, green onions	



Combine canola oil, lemon juice, fresh herbs and pepper in a sealable plastic bag. Add the garlic and fresh picked and washed vegetables of your choice. Seal bag, massage the vegetables with the liquid and allow to marinate at room temperature for one hour.

Place potatoes on a grill sheet on a barbecue, cook for three minutes, then add carrots and turn potatoes and cook two minutes. Turn vegetables and add beans, peas and onions. Grill until vegetables are done and slightly charred.

A grill sheet is placed on a barbecue to prevent smaller pieces of food from slipping through the grill bars.

CREAM PEAS ON TOAST

This is a family favourite that I have enjoyed since childhood.

3 tbsps. flour	45 mL
1 1/2 tbsps. butter/margarine	22 mL
1/2 tsp. salt	2 mL
1 c. milk	250 mL
1-2 c. fresh green peas	250-500 mL
5-6 slices of toast	

Melt butter, add flour and salt, then stir to form a paste. Add milk, stir, and cook until thick.

Add raw peas and cook five minutes until tender. Stir often to prevent sticking. Add milk if too thick.

Scoop peas and sauce onto toast and garnish with fresh ground black pepper.

Baby carrots, beans or potatoes can be added to create a vegetable dish.

A milk-free version can be made by substituting almond or soy milk for the milk.

QUICK FRESH-PACK DILL PICKLED CARROTS/BEANS

8 lb. 3- to 5-inch carrots,	4 kg
green or yellow beans	
1 1/2 qt. pickling vinegar	1.5 L
(5 percent acid)	
1/2 c. canning or pickling salt	125 mL
2 qt. water	2 L
1-2 heads garlic	
14 heads fresh dill	
(1 1/2-3 heads per jar)	
or 4 1/2 tbsps. dill seed	
(1 1/2 tsp.-1 tbsps. per jar)	

Fill a canner half full of water, place sealers on a rack in the canner and heat. Wash vegetables. Combine vinegar, salt and water, then heat to boiling. Place snap sealing lids in a pan of hot water.

Using a jar lifter, remove a hot sealer from the canner and place on a plate.

Place 1 1/2 to three heads fresh dill and two garlic cloves in the bottom of the jar. Fill jar with vegetables, cover with boiling pickling solution, leaving 1/2-inch (1 cm) head



Use fresh vegetables to grill on the barbecue or for carrot and bean salad. Beans and carrots can also be preserved for a winter day. |

BETTY ANN DEOBALD PHOTOS

VARIETIES TO TRY

Considering how vegetables will be used and stored may determine the variety of seeds planted. Here's some favourite vegetable varieties:

- Derby green beans have long flavourful pods up to seven inches (18 cm) long that stay tender when cooked, frozen or canned.
- Green Arrow peas have nice long, full pods that produce well. They are an early crop and excellent fresh or frozen.
- Oregon Giant edible pod peas are picked when the pods are slim and the peas are just beginning to form inside. They are eaten pod and all.
- Newer varieties of sugar snap peas are picked when the pods are plump and round with formed peas inside. They are eaten whole pea and pod or the peas can be shelled out.
- Scarlet Nantes coreless carrots are an heirloom variety. The carrots are long, sweet and tender and are good fresh, raw, cooked, frozen or pickled and store well.

space. Wipe the edge of the sealer to clean, place on heated sealing lid and screw band, tighten to fingertip tight and place sealer back into the canner.

Once all jars are filled, add enough extra boiling water to cover the tops of the sealers by one to two inches (2-4 cm).

Cover the canner and bring to a full rolling boil. This is when the processing time begins. Heat for the time specified below:

Process time at altitudes:
0-1,000 ft — 15 minutes
1,001 - 6,000 ft — 20 minutes
above 6,000 ft — 25 minutes

At the end of the processing time, turn off heat and remove canner lid and allow water to stop boiling. Use a canner jar lifter to remove jars without tilting to a folded towel to cool. Do not disturb for 24 hours and do not retighten the screw bands.

It yields seven to nine pint (500 mL) sealers.

Source: Adapted from the *Complete Guide to Home Canning* — USDA.

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

LACK OF ORGANIZATION

Help spouse with tasks if seeking tidy home for children

SPEAKING OF LIFE



JACKLIN ANDREWS, BA, MSW

Q: My wife works hard but she is not organized. She starts a

job in the kitchen and then moves into the living room with another project before she is finished in the kitchen. The living room is not quite finished before she is off into another project.

The problem is our young children. I think that if they lived in a neat house that they would more likely grow into neat and tidy adults. The way things are at the moment, that is not likely to happen. They may well be as messy as

their mom is. What do you suggest?

A: Children who have been raised in neat and tidy homes are more likely to settle into similar homes when they leave home. Children learn more from modelling than from the lectures we give them.

It would appear that you are counting on your wife to carry the major part of the responsibility for raising neat and tidy kids.

Your wife, for whatever reasons, is presenting all of you with a home that is not quite as organized as you might like it to be. She is not going to change no matter how much you complain.

If you want to present to your children a home that is a little neater, you are going to have to figure out some way of helping your wife finish her tasks.

The house is most often seen as a joint responsibility. Both parents

keep it tidy and encourage the children to help in the whole process. This is an opportunity for you and your wife to learn to work together more effectively.

During the busy times on the farm when everyone has to help, the foundation for a good partnership will already be there.

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

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ANTIQUES

ANTIQUE AUCTIONS 0701

UNRESERVED AUCTION: Sunday, August 20, Smoky Lake, AB. All 1 owner: Kubota M6800 tractor, 117 hrs.; Kubota L3830, 41 hrs.; Kubota BX2600, 45 hrs.; NH LS170 skid steer, 189 hrs.; 2003 GMC 2500 w/hydra deck, 16,830 kms.; 5 lama's w/handling equipment and more! Internet bidding: www.prodanikauctions.com

THREE DAY COLLECTOR AUCTION: September 8, 9, & 10 in Abbotsford, BC. **Granny & Grumpa's Antiques.** View online at www.prodanikauctions.com

ANTIQUE EQUIPMENT 0703

WANTED: Straight cutting attach for Vers. Model 42 PTO combine. Would purchase components or complete header. Grant 204-761-6884, grant.tweed@gmail.com

1962 MASSEY 410 combine, new frt tires, cab, AC, radio, enclosed hopper ext., new paint. Serious collector or small farmer. 204-248-2040, 9-10:30 PM, Rathwell, MB.

WANTED: VOLKSWAGON AIR cooled motor used in small research plot combines; Also wanted 1960-1965 VW bug. 306-549-4073, Hafford, SK.

ADRIAN'S MAGNETO SERVICE. Guaranteed repairs on mags and ignitors. Repairs. Parts. Sales. 204-326-6497. Box 21232, Steinbach, MB. R5G 1S5.

WANTED OLDER TRACTORS: Deutz Deca, Fahr D800, F4L514, 8005, 9005, 13006. Wanted: Lanz Bulldog & stationary engines. Call 705-927-7519.

MOTOR PARTS: MH55 & 555: 1 crankshaft, 1 cylinder sleeve, 2 pistons, 1 motor block. Good cond. 403-556-2703, 403-586-2703, Olds, AB. Meldoddil@gmail.com

RESTORED JD TRACTORS: 420 Hi-Crop, (rare); B wide front, 42" tires; MTN, single front wheel. 403-660-8588, Calgary, AB.

WANTED: MH MODEL 27 or 90 combine, in restorable condition. 306-567-7967 or gary.allan@sasktel.net Davidson, SK.

1966 FORD THUNDERBIRD Convertible, 390 auto., always shedded, phone for more details. 306-259-4430, Young, SK.

1928-1978 CARS & PARTS: Coupes, Hardtops, Crowns and Convertibles. Call 306-859-4913, Beechy, SK.

1948 IHC KB5 Truck, w/steel box and hoist; **Wanted:** 1956 Pontiac Laurentien. 780-305-4106, Barrhead, AB.

1972 CADILLAC ELDORADO Convertible, new tires and top, nice drivable car, \$12,500. 306-746-7307, Semans, SK.

1965 GALAXY 500 LTD, 4 dr. hardtop, body damage in back, 352 eng., trans. 100 miles since OH, vg. 2- 1966 Mercury 4 dr. black sedans, sliding back windows, 390 eng., auto., red interior, PS, power brakes. 204-248-2040, 9-10:30 PM, Rathwell, MB.

ANTIQUE Misc. 0710

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

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ANTIQUE EQUIPMENT 0703

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JIM'S CLASSIC CORNER - We buy or sell your classic/antique automobile or truck. Call 204-997-4636, Winnipeg, MB.

1928 PONTIAC TRUCK for parts, wheels and body in fair cond. Pics available if interested. Call 306-378-2668, Elrose, SK.

1947 FARGO 1/2 ton, all original. Tires, motor, upholstery & body in vg condition, \$6000 OBO. 204-764-2739, Hamiota, MB.

1975 CORVETTE STINGRAY, T-top, 3 spd auto; 1962 Vauxhall Envoy, good cond., little restoration needed; 6 1/2' Dodge truck box, fits 1994-2002, c/w spray in box liner and lights, available w/5th wheel hitch. 306-648-3557, Bateman, SK.

ANTIQUE Misc. 0710

OLDER FIREARMS WANTED. Have valid firearms license and cash for older firearms. Also buying antiques. Call 306-241-3945, Kyle, SK. dennistfalconer123@gmail.com

ANTIQUE SALES 0900

FARM AUCTION for Gerald, Jody, & Jocelyn Hugo. Wednesday, August 2nd at 10:00 AM at Kisbey, SK. A large sale, a few highlights: 1985 Vers. 876; Belarus 710; JD 4430 and 4010; Case 580 Super L back hoe; IHC 5600 45' deep tillage w/Degalman harrows; Bourgault 2155 air seeder w/IHC 44' cult.; CIH 2388 combine, shedded; (2) IH 1460 combines, shedded; IHC S-2500 highway tractor; Castleton grain trailer; Various flatdeck trailers; Kubota 2920 yard tractor w/snow blower; Ford 8N; Model R J D; Model AR Tractor. Key "M" Auction Services, 306-452-3815, www.keyauctions.com PL# 304543.

ONLINE AUCTION: 2 bedroom, 1 bathroom Diplomat mobile home, 690 sq. ft., Location: Forest Grove, Heritage Estates, Saskatoon, SK. **Bids close July 31st.** Ideal for first time buyers, future landlords and temporary residents. Contact Chad 306-380-1115 for more details or visit: Mcdougallauction.com PL #331787.

ANTIQUE SALES 0900

Myrna and the Estate of Lawrence Pister, Sunday August 6th at 10:00 AM Runnymede, SK. 2011 Fun Finder Xtra XT 245 toy hauler; 2010 PJ deck over 22'x8.5' trailer; 1971 Marquis Brougham, 2 dr hard top, 429 eng, 93,292 miles (mint cond); 1950 MH 44 tractor; 1951 Chev 1 ton w/metal B&H; PJ 7712 flat deck trailer 8x12; Glascon 4G-11009 boat & trailer, 55HP Chrysler motor; JD 316 riding mower; JD tiller; 1972 Ski-Doo Olympic 399 & matching Ski-Doo caboose; Guns; Royal Albert Dimity Rose dinnerware set; Affinity Frigidaire stackable washer/dryer; Oak table/4 chairs; Oak china cabinet; Large assortment of carpentry/hand tools, kitchen items, etc. Karla's Auction 306-621-8051. www.ukrainetzauction.com PL 310056.

PBR AUCTIONS Farm and Industrial Sale last Saturday of each month, great for farmers, contractors and the public. www.pbrauctions.com 306-931-7666.

ANTIQUE SALES 0900

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Unreserved Public Farm Auction

Frances Deynaka

High Prairie, AB | August 1, 2017 - 10 am

2002 John Deere 9750STS **1989 Case IH 9180**

AUCTION LOCATION: From HIGH PRAIRIE, AB, go 11.6 km (7.2 miles) West on Hwy 2 to RR 182 (Snipe Lake Rd), then 3.2 km (2 miles) South to Twp 742, then 1.6 km (1 mile) East. Yard on South side. **GPS:** 55.4029368, -116.6519308

A PARTIAL EQUIPMENT LIST INCLUDES: 1989 Case IH 9180 4WD Tractor · 1984 Steiger Panther KM325 4WD Tractor · 1978 John Deere 4840 2WD Tractor · Massey Harris 44 Special Antique 2WD Tractor · 2002 John Deere 9750STS Combine · 2001 MacDon 972 30 Ft Draper Header · 1995 Prairie Star 4900 30 Ft Swather · 1986 Case IH 4000 24 Ft Swather · 1997 Western Star 4884FT/A Grain Truck · GMC 6500 T/A Tag Grain Truck · Chevrolet C65 S/A Grain Truck · Kenworth T/A Dump Truck · 1982 Chevrolet C20 Custom Deluxe Service Truck · Cancar 45 Ft T/A Hiboy Trailer · Flexi-Coil 5000 39 Ft Air Drill · Case IH 6200 24 Ft Double Disc Seed Drill · John Deere 1600 27 Ft Deep Tillage Cultivator · Degelman 3000 35 Ft Medium Duty Cultivator · Morris L320 34 Ft Field Cultivator · John Deere 335 27 Ft Tandem Disc · John Deere 3600 8 Bottom Plow · Farm King 56 Ft Diamond Harrows · 1990 John Deere 535 Round Baler · 2004 John Deere 936 Hydra Swing Disc Mower Conditioner · (17) Grain Bins ...**AND MUCH MORE!**

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Alan Deynaka: 780.523.7661 aldeynaka@yahoo.ca

Ritchie Bros. Territory Manager – **Mike Slon:** 780.518.6249 800.491.4494

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AUCTION SALES 0900

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LIVE & ONLINE AUCTIONS
 Refer to Website for Terms & Conditions
REGINA: Unreserved Live Farm Auction for The Estate of John Bessey near Cupar, SK - Aug 1; Patio Stone/Lumber Event - Aug. 2 Plus 8 Wheel All Terrain Vehicle w/ Enclosure; Odyssey; 1999 Targa Tournament Fishing Boat; 1987 Ford L9000 Heavy Semi Truck; 1985 Kenworth W900 Dump Truck; 1992 Mack Water Truck; 2002 Bobcat 863 Skidsteer; 2010 Southland Dump Trailer.
SASKATOON: Wholesaler's Blowout - Corral Panels & Unused Industrial Supplies; Mobile Home - Forest Grove Heritage Estates; 2015 GMC Sierra 1500 SLT Z71; Vehicles & Trailers; Barreto Hyd. Rototiller/Tilt Deck Trailer; 36'x36' Portable Dance Floor; Quality Brand Full Gym Equip; Unused Basins/Toilets; City of Sask Lost & Found. Next Monthly Agriculture Equip. Auction - Aug 30: Call Ken to Consign: 306-250-0707.
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UNRESERVED LIVE FARM AUCTION:
FOR THE ESTATE OF JOHN BESSEY
TUESDAY, AUGUST 1 - 10AM IN CUPAR, SK
 Live Internet Bidding will start at noon on sale day
 2012 MF 6480 MFWD Tractor w/MF 968 Loader; 1985 Case IH 1460 Combine w/IH 810 Header; 1982 NH TR85 Combine w/ NH 970 Header; 1964 Chev 60 S/A Grain Truck; 1982 Ford F1700 Utility MFWD Tractor; 1988 JD 2755 Tractor w/ JD 148 Loader; 2003 NH BR 780 Round Baler; 1979 NH SP 1069 Bale Wagon & More!
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FARM AUCTION

LEONARD & ROSE GESIOROWSKI, JOE GESIOROWSKI
Monday, July 31st @ 10:00 am (local time)
GUERNSEY, SASK

Owner's Phone: 306-365-7037 & 306-338-8220

Directions: From Guernsey go North 5 miles (8kms) on Range Road 2233 yard on West side, From Humboldt Jct. of Hwy 5 Hwy 20, go South 26.7kms on Hwy 20, then West 2 miles, then 1 1/2 South
 Internet bidding starts at 12:30 sharp on machinery

TRACTORS* 1982 Versatile 835, 4 hyds, PTO, std trans* 1977 JD 8430, 3 hyds., PTO, quad trans* 1977 IH 1586* 1967 JD 2510, 2 hyds, PTO, 4 cyl Gas eng.* Case 830 Comfort King c/w Leon FEL w/bucket* 1964 IH 706, c/w Do-All FEL w/bucket* IH 350* **COMBINES*** 1983 MF 860, 6 cyl D eng., std trans.* 1979 MF 750* 1978 MF 750* **SWATHERS*** 1983 Versatile 4400, 22ft* 1978 Versatile 400, 20ft* 1977 Versatile 400 18ft* **AIR SEEDER*** Bourgault 8800, 36ft, c/w Bourgault 2155 4 wheeled tow behind cart* IH 4700 Vibra tiller, 33ft c/w Concorde 1002 2 wheeled tow behind cart* **SPRAYERS*** Flex coil System 62, 72ft* **GRAIN TRUCKS*** 1981 IH S1724, 404 V8 gas eng., 5 Spd trans.* 1967 IH Loadstar 1600* **CULTIVATORS*** Case 1900, 40ft, DT* **LIGHT TRUCKS*** 2000 Chev Silverado, Ext cab* 1983 Chev Silverado 10* 1976 Chev Scottsdale 10, regular cab, long box* **GRAIN DRYER*** Grain Chief 300* Tox-o-wic 370* **GRAIN CLEANING EQUIPMENT*** Carter Disk Separator* **AUGERS*** Sakundiak HD7x41* **HARROW PACKER BAR*** Flexicoil 60ft, System 90, P-20 packers* **GRINDER MIXER*** IH 1050* **ROCK PICKER*** 1981 Degelman R570S* **VDITCHER*** Doepker V ditcher* **MANURE SPREADER*** IH 550, single beater* JD 40, rear beater* **HAYING EQUIPMENT*** AC 6ft PTO drive, hay conditioner* **STOCK TRAILER*** Custom built 13 1/2ft, tandem axle* **BALE WAGON*** 1979 NH 1037* **SQUARE BALER*** IH 440* **ROUND BALER*** JD 375* **GRAIN VAC*** Walinga 510 grain vac* **PROPANE TANK*** 500 gal 250PSI* **OTHER FARM EQUIPMENT*** Shulte 3-yard pul scraper* JD 12ft dozer blade fit JD 8430.



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BERG'S GRAIN PUP 20' single hopper, spring ride, chip guarded hoppers, hitch and front, Michel's tarp and Berg's quality finish, \$28,600. 204-325-5677, Winkler MB



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2012 WILSON 3-AXLE hog trailer Model PSDCL-408P, side load, aluminum rims, new MB safety, 75,000. Call anytime 204-743-2324, Cypress River, MB.

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2008 CIMARRON 4 horse living quarter trailer, Sierra custom interior pkg., electric over hydraulic jack, new tires, \$44,500. 306-441-7680, Battleford, SK.



2017 FEATHERLITE 7'x24', #HC143380. \$26,500. 3 compartments. Edmonton/Red Deer. Call 1-844-488-3142 or shop online 24/7 at: www.allandale.com

LIVESTOCK TRAILERS 1510



NEW WILSON BUMPER PULL MODEL Desert Sales Inc. now stocks the Wilson Ranch Hand bumper pull. With over 15 years of sales and service, we will not be undersold. Bassano, AB., 1-888-641-4508. www.desertsales.ca

Misc. Trailers 1515

24' GOOSENECK 3-8,000 lb. axles, \$7890; Bumper pull tandem lowboys: 18', 16,000 lbs., \$4750; 16', 10,000 lbs., \$3390; 16', 7000 lbs., \$2975, 8000 lb Skidsteer, \$1990 Factory direct. 1-888-792-6283. www.monarchtrailers.com

2009 PRECISION 20' tilt deck tridem trailer, new fender & torsion axles, \$9000 OBO. 250-833-4706, dandgutters@gmail.com

FRUEHAUF 37K pintle hitch tandem trailer, new 35' deck, c/w road load ramps, certified. \$19,500 OBO. Call 306-921-7583 or 306-752-2873, Melfort, SK.

FLAMAN HEADER TRAILER, dbl. wide, will haul 24-30' headers, elec. brakes, spring-ride \$4000 OBO. 306-843-7021 Cando SK

1995 DOEPKER 48', 102", tandem machinery trailer, single drop, hyd. tail/flap, alum. outriggers, 12,000 lb. winch, good cond., \$35,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.



BIG TEX TRAILERS: Goosenecks, Bumper Tow, Mission Alum. Enclosed, Stock and Horse Trailers. Big Tex 20-40' Goosenecks, 23,900 lbs. GVWR, start at \$12,995. Free spare & 3 yr. warranty. Jason's Agri-Motive 306-472-3159. www.jasonsagri-motive.ca

COMPONENTS FOR TRAILERS. Shipping daily across the prairies. Free freight. See "The Book 2013" page 195. DL Parts For Trailers, 1-877-529-2239, www.dlparts.ca

100 MISC. SEMI TRAILER FLATDECKS/stepdecks, \$2500 - \$30,000. 10 heavy loadbeds, \$10,000 - \$70,000; Belly & end dumps and alum. tankers. 306-222-2413, Saskatoon, SK. www.trailerlady.ca

COMBINE TRAILER TRI-AXLE, 2000 Janzen, 12' wide, Sask. safety, \$18,700. Call 306-222-2413, Saskatoon, SK. www.trailerlady.ca



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2002 TRAIL-EZE TA machinery trailer, 48', hyd. tail, certified, pull out steel extensions, \$38,000. 780-753-2550, Provost AB.

GRAVEL TRAILERS, END dumps, clam dumps, cross dumps, side dumps. Check prices on: www.trailerlady.ca Call 306-222-2413, Saskatoon, SK.

Sterling TRUCK & TRAILER SALES LTD.



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2018 Featherlite 8413-7024 24'x7' Combo, Tac Package, Saddle Racks, Polyast Floor

2018 Featherlite 8413-7020 20'x7' Combo, Tac Package, Saddle Racks, Polyast Floor

2016 Featherlite 9409-673H 3 horse Slant Load, Saddle Racks, Gravel Guard, Bumper Pull

2016 Featherlite 9409-672H 2 horse Slant Load, Saddle Racks, Gravel Guard, Bumper Pull

EQUIPMENT TRAILERS

2018 Felling XF-AG-80-3 HDG 53'x10' Detachable, Aluminum Pull-outs, Flip Neck, 20k Winch

CAR TRAILERS

2017 Featherlite 4926-0022 22' Car Hauler, 2-4.8 k axles, Front Ramp, Fuel Doors, Nudo Floor

Misc. Trailers 1515



2017 FEATHERLITE LIBERTY LQ 9821-4118, #HC146274. \$98,900. Booth Dinette! Call 1-866-346-3148 or shop on-line 24/7 at: allandale.com

BEHNKE DROP DECK semi style and pintle hitch sprayer trailers. Air ride, tandem and tridems. Contact SK: 306-398-8000; AB: 403-350-0336.

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2004 LOEDELIN gravel trailer \$30,000; 2001 Doepker grain trailer \$27,000; 2009 Doepker end dump gravel trailer \$40,000 2011 Doepker step deck trailer \$37,000. 306-487-7799 306-487-2633 Lampman SK

TRUCKS

NEWEST TO OLDEST 1595

2017 GMC CANYON CC 4x4, 3.6L V6, loaded, all-terrain pkg., starting \$41,795, 6 in stock, #H1592. 1-800-667-0490 DL#907173 www.watrousmainline.com

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

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

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

2017 CHEV AND GMC 1/2 ton Crewcab Dualy, 6.6L v8 dsl, loaded, cloth, #H1566, call 1-800-667-0490 for pricing! Or visit www.watrousmainline.com DL#907173

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

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

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

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

FEATHERLITE TRAILERS Renn FELLING TRAILERS



GOOSENECK TRAILERS

2017 Featherlite 8127-7032 32'x7' 3-7k axles, 2 gates w/sliders, Plexi Glass Closures

2017 Featherlite 8127-7632 32'x7'6" 3-7k axles, 1 Rolling Gate, 1 Std Gate slider, Plexi Glass Closures

2017 Featherlite 8127-7020 20'x7' 2-7k Axles, 1 Gates w/slider

2017 Featherlite 8127-7024 24'x7' 2-7k Axles, 2 Gates w/sliders, Plexi Glass, Gravel Guard

2017 Featherlite 8117-6720 20'x6'7" 2-6k Axles, 1 Std Gate, Running Board

BUMPER PULL LIVESTOCK

2017 Featherlite 8107-6716, 16' x 6'7" wide 7' high, 1 std gate, Plexi Glass, Rubber Mats, Gravel Guard

LIVESTOCK

2016 Featherlite 8270-0053 Aluminum Ground Load, Semi-Trailer, Alum Wheels, 7'6" Interior

2016 Featherlite 8270-0053 Aluminum Ground Load, Semi-Trailer, Steel Wheels, 7' Interior

NEWEST TO OLDEST 1595

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

2016 RAM 1500 Limited Crew Cab 4x4. Absolutely loaded, only 700 km's. Original Retail \$73,558, now \$51,900! Blue in color, Stock #U192. DL#331445. 306-542-8130, Kamsack, SK. www.redlinechrysler.com

2015 GMC 1/2 ton Crewcab SLT, 4WD, 5.3L V8, loaded, NAV, silver, 64,790 km., #M

GRAIN TRUCKS 1675

AUTOSHIFT TRUCKS AVAILABLE: Boxed tandems and tractor units. Contact David 306-887-2094, 306-864-7055, Kinistino, SK. DL #327784. www.davidstrucks.com

CAB AND CHASSIS: 2010 Chev 3500 1 ton dually, will take 10'-12' deck, 6L gas, 195,000 kms., fresh Sask. safety, \$8900; Call K&L Equipment, 306-795-7779, Ituna, SK. DL #910885. ladimer@sasktel.net

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GRAVEL TRUCKS 1676

1999 MACK MIDLINER, S/A, double frame w/12' Loadline gravel BH&T, 363,500 kms, 220 HP, 6 spd., air ride, 12,000 frts, 23,000 lb. rear axle, AC, tires like new, safetied, like new cond., \$34,500 OBO. 204-791-9950, Stonewall, MB. Email: djkinv@hotmail.com

2012 IHC TRANSTAR, low pro, Max 300 HP diesel, Allison auto. trans., single axle, loaded cab, 13' Armstrong landscape dump, \$39,900; 2010 CHEV 1 ton dump truck w/10' gravel dump, \$14,900. K&L Equipment and Auto. Call Ladimer, 306-795-7779, Ituna SK. DL #910885.

ATTENTION GRAVEL HAULERS: 5 tandems in stock, 1998-2007; Tri-axle 18' dump. Yellowhead Sales, 306-783-2899, Yorkton, SK

CANUCK NEW End and side dumps. IH 9200 Detroit, 10 spd., 16' gravel box; 2013 Decap tri-axle belly dump. Ron Brown Imp. 306-493-9393, Delisle, SK. DL 905231 www.rbisk.ca

TANDEM AXLE GRAVEL trucks in inventory. New and used, large inventory across Western Canada at www.Maximinc.com or call Maxim Truck & Trailer 1-888-986-2946

SEMI TRUCKS 1677

1981 IHC F2574 671 13 spd., 240 WB, 20' B&H c/w silage gate, \$22,000. During the day, call 403-932-2131, Cochrane, AB.

2005 FREIGHTLINER COLUMBIA, tri-drive, Series 60 Detroit, 515 HP, 18 spd, triple diff. lock, air ride suspension, 20,000 lb. front axle, 282" wheel base, 20' bed w/5' beaver tail. 780-983-0936, Clyde, AB.

2005 WESTERN STAR Low Max, Detroit 515, 18 spd., 40 rears, 1.2M kms, good 11x22.5 tires. 306-634-9324, Estevan, SK.

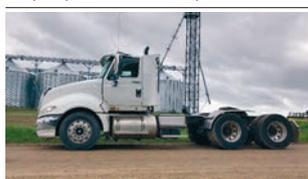
2006 KENWORTH W900, 565 Cummins, 18 spd., 46,000 rears, double highrise bunk, \$38,000. 780-983-0936, Clyde, AB.

2006 PETERBILT 379, short hood, Cat 18 spd. trans., good condition, offers. Call 204-870-2050, Portage La Prairie, MB.

2006 PETERBILT 379XL, C15 475-550, 13 spd., 12 fronts, 40 rears, 22.5 rubber, clean truck, asking \$42,500. Call 204-952-5937, Winnipeg, MB.



2008 PETERBILT 386, 46K rears, 18 spd., 525 HP Cummins, Inframe, deleted, 1.5M kms, \$39,500. 780-206-1234, Barrhead AB



2009 IH PROSTAR, 500 HP Cummins, 18 spd, 46,000 rears, 4-way locks, 485,000 kms \$41,000. 780-206-1234, Barrhead, AB



2009 VOLVO 430, D16 535 HP 18 spd., 46,000 rears, 4-way locks, 290,000 kms, PTO, 68,900\$. 780-206-1234, Barrhead AB

2010 INTERNATIONAL PROSTAR, 500/550 Cummins eng., full delete, safety done in June, new Michelin's all around, all maintenance records available, 1,880,000 kms. Possibility of job to go with the truck! \$50,000. Call 306-229-5626, Kinistino, SK.



2011 IHC PROSTAR, daycab, 515 HP Cummins, 18 spd. trans., 46 rears, full lock, hi-low pressure wet kit, c/w 2002 Lode-King alum. B-train, spring ride, 685,000 kms, good to go, \$68,500. Financing avail. 306-563-8765, 306-563-4160, Canora, SK.

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

SEMI TRUCKS 1677



2011 VOLVO 730 mid-roof, Volvo D16-550 HP 18 spd., 1,265,000 kms., \$34,900. Call Norm at 204-761-7797, Brandon, MB.



2012 FREIGHTLINER CASCADIA mid-roof, DD15-505 HP, 13 spd., 876,500 kms., \$49,900. Norm 204-761-7797 Brandon MB



2012 MACK PINNACLE CXU613 day-cab, Mack MP8-455HP Eaton 13 spd., \$39,900. Call Norm 204-761-7797, Brandon, MB.

2013 MACK CHU613, auto. trans., heavy rear end, 505 HP c/w 2015 Etnyre Black Hawk equipment trailer, 10'W, tridem lift axles, alum. wheels, pullouts. Great for Farm Dealership. Sell as unit or separately. Call 780-720-4304, Willingdon, AB.

2013 MACK RAWHIDE, 505 HP MP8, 12 spd. AutoShift, 70" bunk, factory fridge, 244" WB, 46 rears, 24.5 rubber, PTO (never used), 4-way lockers, Herd bumper (optional), ext. warranty 805,000 kms/Feb. 2018, 617,000 kms. 306-718-7722, Southey, SK.



2013 VOLVO 630 mid-roof, flat deck spec, Volvo D13, I-Shift, 784,000 kms., \$64,800. Call Norm at 204-761-7797, Brandon, MB.



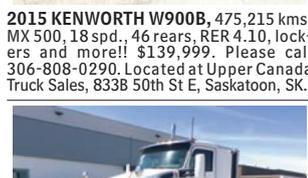
2013 VOLVO HEAVY Spec, D16, 550 HP, 46 rears, 4-way locks, 1 owner, 250K, like new, \$85,900. 780-206-1234 Barrhead, AB



2015 KENWORTH T800: 383,161 kms, MX13 500, 18 spd., 40 rears, RER 3.55, lockers, and more!! \$139,999. Please call 306-808-0290. Located at Upper Canada Truck Sales, 833B 50th St E, Saskatoon, SK.



2015 KENWORTH W900B, 475,215 kms, MX 500, 18 spd., 46 rears, RER 4.10, lockers and more!! \$119,999. Please call 306-808-0290. Located at Upper Canada Truck Sales, 833B 50th St E, Saskatoon, SK.



2016 KENWORTH T680: 451,360 kms, 500 HP, 18 spd., 46 rears, RER 3.91, lockers and more!! \$119,999. Please call 306-808-0290. Located at Upper Canada Truck Sales, 833B 50th St E, Saskatoon, SK.



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KENWORTHS: 2008, 2007 T800 500 Cat 18 spd., 46 diff. lockers; 2009 T660, new pre-emission, 525 ISX, new 18 spd, and clutch, 46 diff., lockers; 2008 T800 day-cab, 500 Cat, 18 spd., lockers, new clutch and trans; 2014 Western Star 4900, 46 diff. Detroit, 18 spd., 4-way locks; 2008 Freightliner Cascadia, daycab, Detroit 515, 18 spd., lockers; 2007 IH 9900i, 525 ISX, 18 spd, 3-way lockers; 2007 IH 9200 day-cab, 450 ISX, 13 spd; 1996 T800, Cat, 13 spd., rebuilt trans., diffs and injectors; 2006 Pete 379, daycab, 500 Cat, 18 spd., lockers, new rebuilt eng., new clutch; 2005 Mack CH613, 18 spd., lockers, wet kit, 450,000 kms; 2- 1996 FLD 120 Freightliners, 425 Cat, 430 Detroit, lockers. Ron Brown Implements, Delisle, SK., 306-493-9393. DL 905231. www.rbisk.ca

SPECIALIZED TRUCKS 1680



2016 DODGE 3500, new demo bale deck unit, dually, 4x4, 6.7 Cummins, auto., c/w new Courtney Berg Hydradec bale handler & Rancher Grille Guard. Full Warranty. DL#256740-2017, \$69,995. 403-378-4331, Duchess, AB. centennial@eidnet.org

2005 FREIGHTLINER COLUMBIA, tri-drive, Series 60 Detroit, 515 HP, 18 spd, triple diff. lock, air ride suspension, 20,000 lb. front axle, 282" wheel base, 20' bed w/5' beaver tail. 780-983-0936, Clyde, AB.

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TOW TRUCK, 1993 F700, 10 spd., Vulcan towing unit (will separate). Pro Ag Sales, 306-441-2030 anytime North Battleford SK

SPORT UTILITIES 1682



2011 NISSAN MURANO, safety, clear car fax, 77,600 kms., exc. cond. \$17,500. Call 204-487-1347, Winnipeg, MB.

2014 GMC YUKON SLT, 4WD, 5.3L V8, loaded, 7 passenger, sunroof, 46,334 km., #H1489A, \$50,395. 1-800-667-0490 www.watrousmainline.com DL#907173

2015 CHEV EQUINOX 1LT, AWD, 2.4L, 4 cyl., loaded, heated cloth, silver, 69,170 km., #H1275A, \$23,395. 1-800-667-0490 www.watrousmainline.com DL#907173

2015 FORD EDGE SEL AWD, 3.5L V6, loaded, nav, sunroof, heated leather, 33,395, 33,015 km, stk#H1212A, 1-800-667-0490 www.watrousmainline.com DL#907173

2015 GMC YUKON XL Denali, AWD, 6.2L V8, loaded, white diamond, 102,673 kms., #H1388A, \$55,395. 1-800-667-0490 www.watrousmainline.com DL#907173

2015 NISSAN MURANO Plat., AWD, 3.5L V6, loaded, NAV, sunroof, leather, 40,123 km., #G1054B, \$35,995. 1-800-667-0490 www.watrousmainline.com DL#907173

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2017 GMC YUKON XL, 5.3L, V8, loaded, leather, #H1438, starting at \$73,295, 10 in stock. DL#907173, 1-800-667-0490 www.watrousmainline.com

2017 GMC YUKON, 5.3L, V8, loaded, NAV, leather, #H1553, starting at \$70,895, 10 in stock. Visit www.watrousmainline.com or call 1-800-667-0490. DL#907173

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VARIOUS 1685

2008 IH 7600 tandem 24' van body, power tailgate, 10 speed ISX; 2007 Freightliner auto. trans., 22' van, reefer power tailgate. Ron Brown Imp. 306-493-9393, Delisle, SK. DL #905231 www.rbisk.ca

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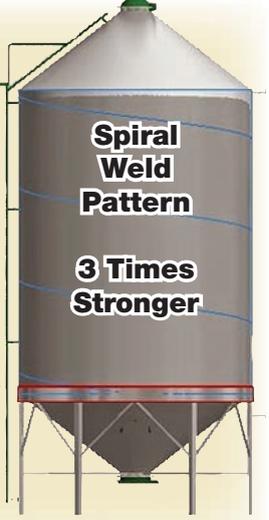
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HARVESTING/HAYING

BALING EQUIPMENT 4139

HESSTON 856 AUTO 5x6 round baler, AutoCycle, premium cond., 1 owner, 3078 bales, flotation tires, 1000 PTO, short crop kit, \$18,500. 306-747-7015 Shellbrook, SK

2015 CASE BALER RB565, under 10,000 bales, wide tires, \$49,000. Call Steve 780-674-8080, Cherhill, AB.

1992 CASE/IH 8570 big square baler. \$7500 in new parts installed and many other parts have been replaced in the recent past. Overhauled, field ready. Baler was used last season, worked beautifully, vg cond., \$24,900 OBO. 226-343-1853, Alma, ON. Email: dseastep@hotmail.ca

BALING EQUIPMENT 4139

1999 HIGHLINE 700 BALE WAGON, 7 bales, very little use, \$13,900. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

HESSTON 956A ROUND baler, netwrapped ready, made only 1500 bales, shedded. \$19,000. 306-643-4823, Esterhazy, SK.

NH 1002 Stackliner Bale Wagon, 1 owner, excellent condition; 84 Hrs. 24' PT swather, 1 owner, field ready. 306-335-2756, 306-537-3718, Lemberg, SK.

NH 114 HAYBINE, 14', good working cond; JD 535 round baler, field ready, always shedded; NH 1033 bale wagon, PTO, field ready. Call 306-423-5748, Wakaw, SK.

NEW HOLLAND 1033 Stackliner bale wagon, in working cond, 105 bales. Rose-town, SK. 306-831-9979 or 306-882-3141.

GRAIN ELEVATORS 4127

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GRAIN VACUUMS 4133

NEW IDEA 4865 5x6, hyd. PU, rubber mount teeth, 2300 bales, shedded, good. 306-944-4325, 306-231-8355, Bruno, SK.

MOWER CONDITIONERS 4142

KRONE-BIG M400, 2011, 1056 hrs. with accumulators, 30' cutting width, shedded, \$3000 in new parts included. Sold the cows, field ready, exc. shape, \$200,000 firm. 306-457-2935 after 6, Stoughton, SK.

NH 14' HAYBINE; MF 128 sq. baler; NH 1033 bale wagon; NH 268 sq. baler; NH chain round baler. 306-283-4747, 306-220-0429, 306-291-9395, Langham.

JD 1209 haybine 9', vg shape, \$3500; Also 1998 Ford Windstar van, vg shape, \$1200. 780-764-2152, 780-718-0746, Hillard, AB.

BALING EQUIPMENT 4139

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SWATHERS 4145

2013 M155 c/w D65 40' header, transport, 700 hrs., shedded, \$129,000. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1998 WESTWARD PT. 25' swather with U2 PU reel, always shedded, \$3000. Call 306-782-7023, Willowbrook, SK.

1986 SERIAL IMPLEMENTS 722 SP Swather, w/U2 PU reel, 2130 hrs., \$10,500; CIH 721 PT Swather, w/MacDon PU reel, \$1200. 204-638-8443, Dauphin, MB.

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

2001 MACDON 9352, 30', double knife, 1225 hrs, JD AutoSteer ready, 972 header, \$50,000 OBO. 780-768-2306, Vegreville.

MASSEY 885 SP 30', gas, 1700 hrs. 66" opening, pickup reel, rebuilt wobble box, new canvases and spare parts, \$9500. Call 306-335-2777, Lemberg, SK.

2009 MACDON M100, 1043 eng. / 798 header hrs., D50 30' header, gauge wheels, Freeform hyd. swath roller, large rear tires, \$80,000. 204-247-0388, Roblin, MB.

2012 MF 9740, 36', 400 hrs., very good, \$99,000. Financing available at 0% - 3.49% from 12-72 months OAC. Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

2005 MACDON PREMIER 2940, 30', 972 harvest header w/Vern's belly-mounted hyd. swath roller, 1348 cutting hrs., 1715 eng. hrs., clean and nice shape, shedded, \$57,000. 306-743-7780, Langenburg, SK.

NH HW325 SALVAGE cab, axle, engine, lots of good parts. Call 1-800-667-4515 or visit www.combineworld.com

2009 MACDON M150 Premier, 30', dbl knife, split reel Roto-Shears, new gator canvass last year both sides, never used for silage, c/w JD AutoSteer ready, 1100 swath hrs., 1

SWATHERS 4145

2007 NH HW 325, 1098 hrs., 30' HoneyBee single knife drive, new knife and canvases, mtd. swath roller, always shedded, exc., \$57,000. 204-734-8662, 204-734-3728, Swan River, MB. tjgersak@gmail.com

2013 JD W150 w/40' 440D header, hyd roller, JD GPS, green MacDon, 232 eng. hrs., \$155,000. 306-421-6020, Torquay, SK.



2014 MF 9740 windrower, nice cruiser, 30' header, PU reel, TopCon Guidance System, big tires, 414 hrs., very good condition, \$115,000. Will take trade, and or financing. 306-563-8765, 306-563-4160, Canora, SK.

WANTED: GOOD USED MacDon 155 or JD 150 swather, 35' single or dbl. knife drive, prefer one piece reel. Call 306-745-6140, 306-745-7530 cell, Esterhazy, SK.

1995 HESSTON 8100 Windrower, \$10,500, draper header, diesel, 25' double knife, UII PU reel, fair condition, 403-870-0091, Prince Albert, SK. gleia@wolffleia.ca

2006 JD 4895 swather, 30', c/w hay panels and hyd. roller, **525 eng. hrs., 427 cutting hrs.**, excellent shape, \$60,000 OBO. Call 306-646-4505, Maryfield, SK.

2010 MACDON M150 30', dual direction, hyd. tilt, header transport wheels, wide tires, 695.9/614.5 hours, \$125,000. Please call us at 403-358-2840, Lacombe, AB. Luuk_VanAken@hotmail.com

1993 MF 200 30' swather, diesel, PU reel, shedded, \$12,000 OBO; 3-3300 bu., 2-1600 bu. Westel bins w/wood floors. 306-759-2651, 306-759-7745, Brownlee.



2010 MASSEY FERGUSON 9430 windrower, smooth cutting, 30' head, PU reel, rear mtd. swath roller, 2 spd. trans., new canvases, 1010 hrs., vg condition, asking \$68,500. Financing available. Call 306-563-8765, 306-563-4160, Canora, SK.

1984 WHITE 6400 w/MacDon 30' swather, PU and batt reel, Perkins dsl., A/C, heat, radio, 3547 hrs., very good cond. transport avail., \$9000, 306-736-8336, Kipling, SK.

2002 PREMIER 2952, hi/low spd., 39' MacDon 973 header, PU reels, pea auger, \$45,000. 306-634-9324, Estevan, SK.

1985 MF 885 Swather, used 20 years w/no problems, good condition, \$6000. Prince Albert. 403-870-0091, gleia@wolffleia.ca

2012 JD D450 c/w 35' header, PU reel, mtd. roller, Toro-Shears, 550 hrs., exc, \$84,500 OBO 306-297-7400 Shaunavon SK

2003 MACDON 9352i, 972 30' header, dual knife drive, PU reel, 900 hrs., \$48,000. 204-224-3532, 204-981-3080, Dugald, MB.

2005 MF 9220, 30'. PU reel, double swath, excellent cond., \$44,000. 306-567-8614, Davidson, SK.

725 IH 25' PT swather, always shedded, good condition, \$2000. Call 306-711-2904, Lajord, SK.

2015 JD W150 435D, PU reel, fore/aft, double knife drive, hydraulic tilt, free form roller, integrated GPS, 147 engine hrs. Call 306-537-9636, Riceton, SK.

1999 MF 220 series II, 26', DSA, PU reel, shedded, \$29,900. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

1985 VERSATILE 4700 25' SP CAHR, 1439 hrs., like new canvases, good condition; Laurier 24' drive thru drill/ swather carrier. Offers. Call 306-338-2927, Wadena, SK.

SWATHER ACCESSORIES 4148

2001 MACDON 972 25' header, Keer Shears, double swath, new knife, exc. shape. Call 306-435-7893, Moosomin, SK.

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WANTED: GOOD USED MacDon header transport to fit 30' 972 MacDon header. 306-435-7893, Moosomin, SK.

2014 CASE DH362 header 35', to fit CIH swather, like new, \$19,500. 306-861-4592, Fillmore, SK.

HONEYBEE WS30 HEADERS complete for swathers, starting at \$9980. Call 1-800-667-4515, www.combineworld.com

20' ELMERS BEAN windrower currently mounted on MacDon swather. Hardware available to convert to trailing drawbar unit. \$7000. Call 204-324-0254, 204-324-0090, Letellier, MB.

SWATHER ACCESSORIES 4148

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IH 4000/5000...\$2,250 JD 600 R/F.....\$3,395
JD 1209.....\$2,075 JD 900 Draper...\$3,995
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JD 200/900 Rigid\$1,750 MD Regular.....\$1,875
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RICHARDTON DUMP WAGONS, #1200, #700, #750; JD 3970 harvester; Balers: JD 510, \$1500; JD 535, \$4500; Vermeer R23 hyd. rake, \$9000; NH 216, \$5000; Hay conditioners, \$800 and up; Gehl haybine, 14', \$2500; JD 15' batting mower, \$6000; JD 20', \$10,000; JD 5', \$1000; JD 7', \$2000. 1-866-938-8537, Portage, MB.

H/H VARIOUS 4151

2008 JD 7500 forage harvester, 216 original hrs., 4WD, Prodrive, corn header, PU header, auto greaser, shedded, new condition. 204-851-0745, Elkhorn, MB.

105 BALE MODEL 1044 bale wagon with retriever; And 2 MF square balers, model 24 & 3. Call 306-627-3445, Blumenhof, SK

RAKE-UP COMBINE PU, 8 belt, exc. cond., \$3500; 20' MacDon PU reel, \$2000; Swath roller, 7', \$500; Hydraulic Kleen-Cut crop divider, \$750. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

JD 300 16' hay header, fits 23, 2420, 3830, \$3000; Ford Major dsl. w/loader and blade \$5500. Call 306-304-1959, Woodsoil, SK.

NEW HOLLAND HW325 CAB, fits other CNH swathers, good condition. For more information call 1-800-667-4515 or visit: www.combineworld.com



14 WHEEL FARM-KING hay rakes, set-up and ready to go, can pull two 18' swaths together. Call Cam-Don Motors Ltd., 306-237-4212, Perdue, SK.

COMBINES

CASE/IH 4160

2003 CIH 2388 AFX w/2015 header, field ready, very well maintained, long auger, hopper topper, chopper, Pro600 with Y&M, 262 receiver, shedded, \$85,000. 306-869-7834, Ceylon, SK.

2007 CASE/IH 7010, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2012 CIH 8230, 1301 eng. hrs., 868 rotor hrs., exc. cond., field ready. 780-872-8209, 306-823-4456 Neilburg, SK.

2012 CIH 6088, 300 hrs, Pro 700 monitor, HID lights, 15' 3016 PU, Y&M, ACS, chopper, rocktrap, 3 spd. hydro. 204-776-2112, Boissevain, MB. hvisaac@icloud.com

1990 CIH 1680, all updates, vg cond, 4500 hrs, PU & PU header. Norm. 306-857-2117, 306-867-3998, Strongfield, SK.

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1995 INTERNATIONAL 2188, 3044r/3957e hrs., chopper, Kirby spreader, 1015 header, Rake-Up PU, hopper extension, new parts (\$2000), long auger, c/w 1020 flex header, new knife and reel bushings, head er mover, rubber mint, well maintained, retired, \$42,500 OBO. Call 306-252-2810 or 306-567-7281, Kenaston, SK.

2008 8010, 1398 sep. hrs., long auger, loaded, 2016 PU, new rotor & concaves, \$40,000 red light just completed, shedded, premium cond. Terre Bonne Seed Farm, 306-921-8594, 306-752-4810, Melfort, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1994 1688 CIH, 30' cutting header, PU reel, PU guards, PU header w/transport. Call Neil Mohan 306-574-4208, Plato, SK

2013 CASE 8230, duals, extended auger, fine cut chopper, 750 sep. hrs., \$325,000. Take trade or financing. 306-563-8765, Canora, SK.

1480 CASE/IH w/PU header, recent engine overhaul, \$6000 OBO. 306-734-2932, 306-690-7227, Moose Jaw, SK.

1997 2188 with 1015 PU header, 4200 eng./3100 sep. hrs., yearly inspection, nice shape, 1999 1020 30', all for \$45,000. Call Frank 306-394-7000, Coderre, SK.

CIH 8010 CAB complete, in good condition, \$13,800. Call 1-800-667-4515 or visit www.combineworld.com

2011 CASE/IH 8120, 3016 PU header, 800 hrs., deluxe cab, duals, exc. cond., \$240,000. Call 306-223-4417, Laird, SK.

CASE/IH 4160

1996 2188 1015 header, IH PU, new belts, ultra control header height with lateral header control, 4900 eng. hrs, 3690 thrashing hrs. Speciality rotor with accelerated rotor auger conversion kit in stainless steel. Heavy cone, extended unloading auger, Redekop 250 on the back and internal chopper, Harvest Service concave, rear tires 80%, one new front tire the other 80%. \$20,000 OBO. Call 306-834-5035, or 306-834-7885, Kerrobert, SK.

2004 CIH 8010, new chopper, feeder chain, pick-up & teeth rasp bars, 2899 eng. hrs., \$99,500. 306-287-7645, Watson, SK.

CASE/IH 1640 combine, 1900 hrs., good condition, always shedded, \$10,000 OBO. 306-781-2904, Lajord, SK.

2002 CASE/IH 2388 axial flow, 2160 eng. hrs., Big Top hopper, long auger, 2015 PU header, 1620 rotor hrs., SwathMaster PU, AFX rotor, 30.5x32 tires, CNH 8.3L, S/N JJC0271599, good condition, \$54,900 OBO. Phone 306-374-5887, Clavet, SK.

1997 CASE/IH 2188, 3000 sep. hrs, auto HHC, chopper plus ready cut chopper, hopper extension, very good tires, rock trap, long auger, 2015 Swathmaster PU header, excellent, condition, \$29,500. 306-861-4592, Fillmore, SK.

1993 1688, 1015 PU, chopper, reverse, monitors, 1020 25' header, PU reel, carrier, \$20,000. 204-362-1024, Manitou, MB.

CATERPILLAR LEXION 4166

2002 LEXION 480R, 3212 eng./ 2021 sep. hrs., MAV chopper, Precision PU header, Y&M, chaff spreader, Cebis monitor, 3D sieve, \$60,000. Possibly a MacDon 974 flex 36' draper avail. 204-247-0388, Roblin, MB.

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FORD/NH 4172

2006 NH CX860, 1706 threshing hrs., 2268 eng. hrs., Sunnybrook cylinder & concave, shedded, exc. cond., field ready, \$119,000. 204-445-2382 evenings, Langruth, MB.

2011 NH CX 8080 Combine, 1731 eng. hrs., 1309 separator hrs., always shedded, GPS mapping & AutoSteer, New Holland Service Plus done in Dec.2016, field ready, exc. cond. for the year and hrs. \$180,000 OBO. You can contact Mike at 403-651-2273 or Doug at 403-650-6086. Acme, AB.

2009 NH 9070, 1793/1474 hrs, IntelliView II display, Y&M, remote sieve adjust, elec. tonetrapp, duals, diff. lock, long auger, PSD, deluxe chopper, chaff spreader, c/w 76-C 14' Swathmaster PU plus 2003 NH 94-C 36' draper header, fore/aft, split PU reel, single knife drive, gauge wheels, transport, all stored inside, \$180,000 OBO. Call 780-608-9290, Strome, AB.

1998 NH TR98, 2381 sep hrs, new feeder chain & belt, bearings, grain tank liner, torque sensor hubs, springs, gearbox bearings & output shaft, rotor drive hubs, vg cond., \$32,000. gleia@wolffleia.ca. Prince Albert, SK. 403-870-0091, 403-265-4122.

2007 NH CX 8070 Combine. 2037 eng. hrs., 1512 separator hrs., always shedded, GPS mapping, New Holland Service Plus done in Dec 2016, field ready, very good cond., \$150,000 OBO. Call Doug at 403-650-6086 or Mike at 403-651-2273. Acme, AB.

1991 NH TX36, w/newer Sunnybrook cylinder and new feeder chain, 2770 hrs., \$25,000; NH 971 24' straight cut header, \$4900. 204-638-8443, Dauphin, MB.

TR85 HYDRO, always shedded, 2500 hrs., near new rubber, \$7900. Pro Ag Sales, 306-441-2030 anytime North Battleford SK

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2000 R62, 8.3L Cummins eng., 3053 sep. hrs., c/w header, 12' Swathmaster PU, approx. \$5000- new spare parts, field ready, \$35,000. 306-961-8291, Prince Albert, SK.

1985 GLEANER N7; 1984 Gleaner N7 and 1984 Gleaner N6. All 3 combine are in excellent field ready condition. Phone 306-675-4419, Ituna, SK.

GLEANER R72 & R62 SP combines for sale: R72 has 2089 thresh. hrs., Cummins motor, excellent shape, recent work orders, field ready, always shedded, \$36,500; R62 has 1680 thresh. hrs., optional bigger motor & drive (make it same size as the R72), very nice shape, also shedded, work orders, field ready, \$26,500. Both c/w PU headers. Phone 403-664-0735, Sibbald, AB.

GLEANER S77 SALVAGE, duals, pickup and many good low hour parts still available. Call us now! 1-800-667-4515 or visit: www.combineworld.com

JOHN DEERE 4178

1997 JD 9400, 2114 eng. hrs., 1626 sep. hrs., ext. range cyl. drive, Y&M, long auger, new: PU belts, feeder chain, rub bars and concave, straw chopper, spreader, 914 PU, exc. cond., \$50,000. Call Dave Klein, 306-957-4312, 306-695-7794, Odessa, SK.

2007 JD 9660 WTS, 1100 sep hrs., 615 PU, new rub bars, shedded, very good cond. 780-877-2339, 780-877-2326, Edberg, AB.

JOHN DEERE 4178

2008 JD 9770 STS, Greenlighted, Powercast tailboard, shedded, high capacity lift cylinders, 38" duals, fully loaded. Call 306-463-8774, Kindersley, SK.

2004 JD 9660 STS, Integrated AutoSteer, Mud Hog RWA, Heavy Duty feeder house drive and lift cylinders, 2 sets of concaves, HID lights, Maurer Hopper Topper, stored inside. John 204-324-4018, Altona, MB.

JD 8820, SP 7 belt PU, chaff spreader, new rub bars, 4990 hrs., \$10,000 OBO. 306-549-4628, Hafford, SK.

FOUR JD COMBINES: 2010 T670, 996 sep. hrs., \$220,000; 2009 T670, 1178 sep. hrs., \$200,000; 2004 9760 STS, 2314 sep. hrs., \$125,000; 2001 9650 STS, 3294 sep. hrs., \$85,000. Open to offers. 780-934-6384, Fort Saskatchewan, AB.

1996 JD 9500, 2731 eng., 2141 sep. hrs., 30.5x32 fronts, 14.9x24 rear tires, 914 PU w/new belts, new rad., new MAV F/C chopper, airfoil sieve, chaff spreaders. 930 S/C auger header also available. Combine has been shedded every night, clean, exc. cond., \$45,000 OBO. Ph/tx 204-734-8683, Swan River, MB. jharcam@inethome.ca

1984 JD 7721, 2 spd. grain loss, chopper, airfoil, hopper top, new PU belts, dr. belts and tin good. 306-771-2765, Balgonie, SK.

STRAW WALKER COMBINE, ideal for baling: 2006 JD 9660 WTS, 914 PU, duals, 2300/1550 hrs., \$132,500. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

1977 JD 7700 Turbo, 2800 org. hrs., new feeder chain, new sieve, like new front tires, recent new A/C compressor and PU belts, always shedded, exceptionally nice and straight all around, asking \$9500. 306-338-3369, Wadena, SK.

JD FINAL DRIVES: Used and rebuilt for 9400-9610, CTS & STS. Sold w/warranty. 1-800-667-4515, www.combineworld.com

2016 JD S680 PRWD combine, 360 hrs., 520/85R42s with duals, high ware pkg., chopper w/PowerCast tailboard, 26' auger, PowerGard Warranty til Sept., 2021, \$319,500 USD. www.ms-diversified.com Call 320-848-2496 or 320-894-6560.

1990 JD 9500 SP combine, 4770 eng./ 3582 sep. hrs., c/w 912 PU header and 930 rigid header, 3 year old UII PU reel and Bergen transport, very good cond, always shedded, \$38,000. 403-664-1006, Oyen, AB.

1990 JD 9500, 4100 eng. hrs., 912 PU header, many new parts, harvest ready, \$22,000 OBO. 306-946-7928, Watrous, SK.

JD 7721 PT Titan II, very little acres last in five years, needs a gearbox, shedded, open to offers. 306-577-7164, Kiskey, SK.

2008 JD 9770 STS SP 1287 engine hrs., reverser, integrated chopper/chaff spreader, command center, Y&M, exc. cond., \$175,000. 306-753-7575, Cactus Lake, SK.



TWO 2010 JD 9870's: 1440 & 1404 sep. hrs., 615 PU's. One has ProDrive. Both are excellent shape, field ready, always shedded, asking \$200,000 each. 306-435-6900, 306-435-6104, stutt.farms@gmail.com Moosomin, SK.

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2000 JD 9750-STs, 2980 separator hrs., 3966 engine hrs., w/dual wheel kit, \$60,000. 306-896-2311, Langenburg, SK.

2012 S670 folding hopper ext., no DEF, crop catcher, 960/1106 hrs., \$245,000; 306-649-2432, 306-222-7578, Marcelin SK.

2- JD 8820 combines, one w/new motor, one has been shedded, both field ready. 780-205-8100 leave msg., Lashburn, SK.

JD 7720 TITAN II with 212 PU header and 224 straight cut header, field ready, \$14,500. 306-835-7830 cell, Punnicity, SK.

2005 JD 9760 STS, w/2014 JD 615P PU header, 340 HP, 520/85R42 duals, 1585 threshing hrs. Harvest ready. \$120,000. 780-871-3963, Paradise Valley, AB.

3- 2014 JD S680 combines, 600 sep. eng. hrs., full load. Premium cabs, folding grain tank, Power cast spreader, big rubber (front duals), Pro-Drive, cameras, 24' auger, Contour Master, w/wo 615 PU's. (\$350,000 w/o) exc. cond., \$365,000. 306-587-7531, Swift Current, SK. moftty100@sasktel.net

JD 7720 TITAN II combine, shedded, 4324 hrs., field ready, \$10,000; JD 580 25' PT swather, excellent condition, \$1000. 306-331-7749, Fort Qu'Appelle, SK.

2004 JOHN DEERE 9760, top, waskatena, AB. Call 780-307-1516 or 780-467-9912.

JOHN DEERE 4178

2005 JD 9660 STS, 615 PU, duals, Contour-Master, shedded, 22



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\$503,000
2015 Case IH 9240
620 Duals, 3016 Pickup, Lux Cab,
AccuGuide, HID Lights
Stk: 019866 (SA)



\$355,000
2013 John Deere S680
520 Duals, 615P Pickup Hdr, Auto
Steer, Folding Hopper
Stk: 024730 (SA)



\$378,000
2014 Case IH 8230
620 Duals, AccuGuide, Magnacut
Chopper, Lux Cab, HID Lights
Stk: 022739 (ES)

COMBINES SPRAYERS

- 2016 Case IH 9240** 620 Duals, Luxury Cab, Lat Tilt w/Rocktrap, AccuGuide, 50 Ft Folding Unload, Magnacut Chopper, HID Lights. Stk: 022940 (SC) **\$499,000**
- 2016 Case IH 8240** 520 Duals, Lat Tilt, Rocktrap, Ext Wear Rotor, Standard Chopper, Deluxe Cab, Leather Seat, Trailer Hitch, Pro 700, AccuGuide Ready. Stk: 022147 (SC) **\$425,000**
- 2015 Case IH 8240** 620 Duals, Lat Tilt, Rocktrap, Hyd Hopper Cover, Long Auger, Magnacut Chopper, Luxury Cab, HID Lights, AccuGuide,. Stk: 024326 (SA) **\$450,000**
- 2015 Case IH 9240** 620 Duals, Lat Tilt, Rocktrap, Hyd Hopper Cover, 40' Auger, Magnacut Chopper, HID Lighting, AccuGuide. Stk: 022527 (SC) **\$499,000**
- 2014 Case IH 7130** 800 Singles, Deluxe Cab, Lat Tilt, Extended Wear Rotor, Electric Folding Hopper Cover, Chopper, Yield & Moisture. Stk: 014705 (SA)..... **\$279,000**
- 2013 Case IH 9230** 620 Duals, Luxury Cab, Lat Tilt w/Rocktrap, AccuGuide, Hyd Grain Tank Cover, Magnacut Chopper, HID Lights. Stk: 021990 (ES) **\$350,000**
- 2012 Case IH 7230** 520 Duals, Lat Tilt, Ext Wear Rotor, Hyd Folding Cover, Std Chopper, HID Lights, AccuGuide, Air Compressor. Stk: 021503 (PA)..... **\$269,000**
- 2009 Case IH 7120** 520 Duals, Lat Tilt, AccuGuide, Power Mirrors, Std Cut Chopper, 3016 Header /W SwathMaster Pickup. Stk: 205692B (LL) **\$189,000**
- 2010 Case IH 8120** 900 Singles, Leather Seat, Ext Wear Infeed, Fine Cut Chopper, HID Lights, AccuGuide, Small Tube Rotor. Stk: 018938 (SC)..... **\$205,900**
- 2010 Case IH 7088** 800 Singles, Lat Tilt, AFX Rotor, Chopper, Yield & Moisture, Trailer Hitch, New Radiator, 1,200 Engine & 900 Rotor Hrs. Stk: 017933 (SC) **\$182,000**
- 2006 Case IH 8010 14' CIH 2016 Pickup**, 520 Duals, Rocktrap, Pro 600 Monitor, Std Rotor, Maurer Topper, Fine Cut Chopper, Long Auger. Stk: 021412 (ME)..... **\$155,500**
- 2001 Case IH 2388** Long Auger, Specialty Rotor, Chopper, SwathMaster Pickup. Stk: 021973 (LL) **\$89,000**
- 2014 John Deere S670** 520 Duals, 28L Rear Tires, AutoGuidance, Fine Cut Chopper, HID Lights, 615 Pickup Header. Stk: 022003 (SA) **\$375,000**
- 2003 New Holland CR960** c/w NH 76C Pickup Header, Beacon, Service Lights, Yield & Moisture. Stk:023071 (PA) **\$102,900**
- 2010 John Deere 9770STS** c/w JD 615 Pickup, Deluxe Cab, Bullet Rotor, Long Auger, Fine Cut Chopper, 2600 Monitor, Hopper Topper, Steer Ready. Stk: 022038 (ME) **\$245,000**

- 2016 Case IH 4440** 120 Ft, AIM Pro, Active Susp, Pro 700, AccuGuide, AccuBoom, AutoBoom, Front Fill, Wide Fenders, Trelleborg 710s. Stk: 022565 (SA) **\$495,000**
- 2015 Case IH 4440** 120 Ft, AIM, AutoBoom, AccuBoom, Pro 700, AccuGuide, OmniStar, Luxury Cab, 620s & 320s, 670 Hrs.. Stk: 023153 (SC) **\$475,000**
- 2014 Case IH 4430** 120 Ft, Luxury Cab, Active Susp, HID Lights, AutoBoom, AccuBoom, Viper Pro Monitor, AIM Pro, 380s & 620s, Raven SmarTrax Steering. Stk: 023711 (PA)..... **\$380,000**
- 2014 Case IH 4530** Floater 70 Ft, Luxury Cab, Power Mirrors, Deluxe HID Lights, Fenders, Double 6" Auger 50 CF, Viper 4 Monitor, 1550 Hours. Stk: 024242 (SC) **\$320,000**
- 2013 Case IH 4430** 100 Ft, Deluxe Cab, AIM, Pro 700, 372 Receiver, 2 Sets Of Tires, HID Lights, AutoBoom, AccuBoom. Stk:024786 (SC) **\$305,000**
- 2013 Case IH 3330** 100 Ff, 380 & 650 Tires, Active Susp, Front Fill, AIM Command, Deluxe HID Lighting, AccuBoom, AutoBoom. Stk: 022510 (SA) **\$249,900**
- 2013 Case IH 3230** 100 Ft, 800 Gal, 320 & 520s, Luxury Cab, Active Susp, AIM, Pro 700, AccuGuide, AccuBoom, AutoBoom, Fence Row Nozzles, Wide Fenders. Stk: 024438 (ME) **\$234,000**
- 2012 Case IH SPX160** 134 Ft Pull-Type, 600 Gallon, 5 Way Bodies, Raven AutoBoom, 6 Section AccuBoom, Duals. Stk: 024155 (SC) **\$33,000**
- 2011 Case IH 4420** 120 Ft, Dlx Cab, 380s & 650s, HID Light, Air Comp, Viper Pro, SmarTrax AutoSteer, AutoBoom, AccuBoom, Crop Dividers, Fan Reverser. Stk: 021959 (ME)..... **\$213,000**
- 2009 Case IH 4420** 100 Ft, AIM, 1200 Gallon, Norac Boom Height Control, Sectional Control, Autopilot, 380s & 520s, Ag Leader Monitor. Stk: 020576 (ES)..... **\$199,500**
- 1998 Case IH SPX3185** 90 Ft, 2 Sets Of Tires. Stk: 017817 (SA) **\$79,000**
- 2013 John Deere 4940** 120 Ft, BoomTrac, Sect. Control, AutoSteer, Starfire 3000, 2630 Monitor, 380s /w Rear Duals, HID Lights, Crop Dividers, Planetary Upgrade. Stk: 024157 (PA) **\$240,000**
- 2014 New Holland SP240F** 120 Ft, 1200 Gal SS Tank, Intelliview IV Monitor, AccuBoom, AutoBoom, 2 Sets of Tires. Stk: 024111 (LL) **\$299,000**
- 2014 Case IH 4530** Floater 70 Ft, Luxury Cab, Power Mirrors, Deluxe HID Lights, Fenders, Double 6" Auger 50 CF, Viper 4 Monitor, 1550 Hrs. Stk: 024242 (SC) **\$320,000**
- 1999 Apache 790** 90 Ft, 440 Raven Rate Control, Outback S3, UC4 Norac Boom Height Control. Stk: 021953 (PA) **\$69,000**



\$125,000
2009 Spra-Coupe 7660
90 Ft, 380 & 650 Rear, Raven
SCS50000, EZ-Steer
Stk: 021347 (SA)



\$452,000
2015 Case IH 4440 Sprayer
120 Ft, AIM Pro, New 620s,
Extended Warranty to 04/2018
Stk: 024860 (SC)



\$217,600
2008 Case IH Patriot 4420
120 Ft, AIM. HIDs, Lux Cab, Ag
Leader Insight, New 620s,
2,492 Hrs Stk: 021025 (ME)

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\$85,000

Stock #V412864

2011 International 8600 SBA 6x4
Tandem Axle Grain Truck, MaxxForce 13 Engine (430) HP, Eaton Fuller D/O Transmission (10 speed), Air Brakes, 400232km, 12000 lbs Front Axle Capacity, 40000 lbs Rear Axle Capacity, 4-Way Rear Lockup, 20 FOOT NEW CANCADE SILAGE BOX. Regina, SK



\$59,000

Stock #2015-06R

2006 International 4300 4x2
Single Axle Grain Truck, International DT466 Engine (210) HP, Allison (Auto) Transmission (5 speed), Air Brakes, 268024km, 8000 lbs Front Axle Capacity, 17500 lbs Rear Axle Capacity, A/C, Grainmaster Grain Box with Removable Sides. Regina, SK



\$85,900

Stock #7718-11A

2011 Peterbilt 367
Tridem Axle Cab & Chassis, Cummins ISX engine (500/500) HP, Eaton Fuller transmission (18 speed), Air brakes, 341573km, 14600 lbs front axle capacity, 46000 lbs rear axle capacity, 4-Way rear lockup, A/C, AT1202 Air Shift Aux, Simard 2. Winnipeg, MB



\$154,400

Stock #3836-17

2017 International 4400 6x4
Tandem Axle Grain Truck, Cummins ISL Engine (350) HP, Allison (Auto) Transmission (6 speed), Air Brakes, 1971km, 14600 lbs Front Axle Capacity, 40000 lbs Rear Axle Capacity, 4-Way Rear Lockup, A/C, Getting new Cancade 20' Grain Body. Regina, SK



\$39,900

Stock #: 1452-09A

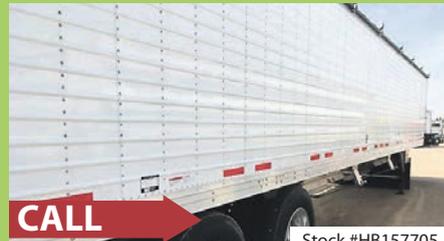
2009 Freightliner Cascadia
Tandem Axle Day Cab Tractor, Detroit Diesel Engine (455/475) HP, Eaton Fuller D/O Transmission (13 speed), Air Brakes, 940000km, 12000 lbs Front Axle Capacity, 40000 lbs Rear Axle Capacity, 4-Way Rear Lockup, A/C, Sleeper Converted to Day Cab. Regina, SK



\$84,900

Stock #FB149591

2015 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, Lead Unit, PRICE GOOD FOR A LIMITED TIME ONLY. Brandon, MB



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Stock #HB157705

2017 Timpte Tridem Grain Hopper
Grain, Hopper, Air Suspension, Tridem Axle, Aluminum Rims, 20 King Pin, Tarp: Rollover Black, Hoppers: Ag Hopper Black w.Interior Access Steps, Width: 102in, Length: 45ft, 24.5 All Alum Rims, Dual Cranks, High Ag Hoppers. Regina, SK



\$25,900

Stock #AR023328U

2010 Reitnauer Drop Miser
Deck, Stepdeck, Air Suspension, Tandem Axle, Aluminum Rims, Alum Floor, Width: 102in, Length: 50ft. Winnipeg, MB

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50,284 KMS, STK#S3928A **\$21,995**

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AUTO, WHITE, 17,542 KMS,
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STK#S3246A **\$14,995**

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STK#S3771A **\$13,495**

2009 HYUNDAI SONATA | CAR
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STK#U02036A **\$11,995**

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STK#S3999A **\$25,995**

2012 JEEP COMPASS ISUV
AUTO, NORTH, CLOTH, HEATED GREY,
76,390 KMS, STK#S3943B **\$16,995**

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AUTO, GS, SILVER, 133,301 KMS,
STK#S2060A **\$9,995**

2010 MAZDA 6 | SEDAN
AUTO, PURPLE, 126,302 KMS,
STK#S3960B **\$10,995**

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AUTO, GS, AWD, GREY, 30,096 KMS,
STK#S4342A **\$28,995**

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STK#U0560 **\$10,995**

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STK#U01593 **\$12,995**

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STK#U01853 **\$21,995**

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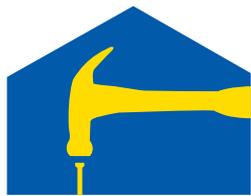
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2010 FORD F-150 SUPERCREW XLT, 5.4L V8, Loaded, Cloth, Black, 124,695 km, Stock #H1706B	\$20,395
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<p>MSRP: \$53,125 SAVE \$10,750</p> <p>2017 GMC 1/2 TON CREW CAB SLE</p> <p>CASH PRICE \$44,375</p> <p>5.3L V8, LOADED, HEATED CLOTH. #H1590</p>	<p>MSRP: \$53,640 SAVE \$11,053</p> <p>2017 GMC 3/4 TON DOUBLE CAB</p> <p>CASH PRICE \$45,587</p> <p>6.0L V8 GAS, LOADED, TRAILER EQUIPMENT, CLOTH. #H1851</p>	<p>MSRP: \$57,235 SAVE \$11,182</p> <p>2017 GMC 1/2 TON DOUBLE CAB SLT</p> <p>CASH PRICE \$46,103</p> <p>5.3L V8, LOADED, HEATED LEATHER. #H1571</p>	<p>MSRP: \$61,670 SAVE \$11,374</p> <p>2017 GMC 1/2 TON CREW CAB SLT</p> <p>CASH PRICE \$50,296</p> <p>5.3L V8, LOADED, HEATED LEATHER. #H1625</p>	<p>MSRP: \$67,200 SAVE \$13,165</p> <p>2017 CHEV 1/2 TON CREW CAB HIGH COUNTRY</p> <p>CASH PRICE \$54,035</p> <p>5.3L V8, LOADED, NAV, SUNROOF, HEATED & COOLED LEATHER. #H1676</p>

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2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

2009 SEED HAWK 72-12 72', 12" sp., twin wing, pneum. packers, 600 TBT cart, stk: 021477, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2006 BOURGAULT 5710 40' 9.8" spacing, steel packers, 6200 Stk: 020500, Cart \$60,000. www.redheadequipment.ca or 1-888-905-7010, Swift Current, SK.

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#1 Max Thresh (Boronized) has more, but smaller holes for our best Threshing Action

#2 Max Thresh (Regular)

#3 Max Thresh Z plate side (release) One round bar box installed for separation

#4 Standard Concave with 2 round bar inserts installed on the Z plate (release) side for needed balance

#5 Concave has 2 Standard boxes on the 'infeed' side for added threshing, five round bars

#6 has one standard and six round bar inserts for a balance on thresh/separate

Order Complete Set as SBJ0747 and get two spare box inserts
Sunnybrook All Crop Concave Set

SUNNYBROOK WELDING
780-789-3855
www.sunnybrookwelding.com/john-deere

AIR DRILLS 4250

2008 NEW HOLLAND SD440 51', 10" spacing on 3.5" steel packers, Dutch paired row openers w/SC430 cart, double shoot, variable rate, rear duals. Packers capped since new, all new bearings in 2017, original owner, very well maintained, asking \$80,000. 306-725-4286, Bulveya, SK.

2009 SEED HAWK 66-12 66", 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

2010 JOHN DEERE 1830 61', 10" sp. DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2010 CASE/IH ATX700 70", rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2011 SEED HAWK 50', 12" sp., tool bar with 600 cart dual wheels auger and bag lift. \$229,000; 1997 39' Morris Magnum air drill, 10" spacing, Atom openers w/Morris 180 cart, \$23,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2013 SEED HAWK 60-12 60", twin wing, semi pneumatic packers, DD, SH 800 TBH, Stk 017840, \$335,000. Prince Albert, SK, 1-888-905-7010. redheadequipment.ca

2010 CASE/IH ATX700 70", rubber packers, high float tires, double shoot, Stk: 020407, \$94,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2015 SEED HAWK 84-12 84" 12" spacing, steel seed and fertilizer knives, Stk: 022334, \$352,000. 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2009 SEED HAWK 66-12 66", 12" sp., single knife, pneum. pkrs, 30.8 rear tires, Stk: 021475, \$205,000. 888-905-7010, Prince Albert, SK. www.redheadequipment.ca

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2010 BOURGAULT 3310 65", Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$140,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2013 SEED HAWK 60-12 60", twin wing, semi pneumatic packers, DD, SH 800 TBH, Stk 017840, \$335,000. Prince Albert, SK, 1-888-905-7010. redheadequipment.ca

2010 SEED HAWK 60' Toolbar, 12" sp., w/Seed Hawk 400 cart, 2 fans, seed & fertilizer distributing kit auger. Also NH kit & winch \$170,000. 306-449-2255, A.E. Chicoine Farm Equipment Ltd., Storthoaks SK.

2010 JOHN DEERE 1830 61', 10" sp. DS dry, Poirier openers, Alpine liquid kit Stk: 023964, \$67,500. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

2012 BOURGAULT 3320 QDA 66', 10" sp., c/w L6550 tank, MRB, NH3 kit, duals Stk: 02317, \$295,000. Call 1-888-905-7010, Saskatoon, SK. www.redheadequipment.ca

2010 SEEDMASTER 72-12 72", 12" space, JD 1910 air cart, 3-tank metering, Stk: 020958, \$132,000. 1-888-905-7010, Swift Current, SK. www.redheadequipment.ca

AIR SEEDERS 4253

2012 70' SEEDMASTER, 10" spacings, liquid fertilizer w/Raven sectional control, foam filled packer tires, \$50,000 firm. 306-745-2737, Esterhazy, SK.

HARROWS/PACKERS 4256

2011 BOURGAULT 6000 mid harrow, 80', exc. cond., \$25,000 OBO. 204-647-4274, Dauphin, MB. wolff.ron.odile@gmail.com

WANTED: 50' FLEXI-COIL line harrow packer bar, P-20 packers. 306-628-4267, Liebenthal, SK.

2013 45' KELLY Harrows, CL1 heavy chain, low acres, excellent condition, 204-764-0361, Decker, MB.

TILLAGE EQUIPMENT 4262

BREAKING DISCS: KEWANEE, 14' and 12"; Rome 16' and 9'; Wishek 14' and 30'; 2-DMI 7 shank rippers. 1-866-938-8537.



NEW NOBLE 3000 32' stubble mulcher, hyd. trip shanks, shedded, excellent cond. Call 403-575-1146, Veteran, AB.

38' KELLO-BILT DISC 225DOW jumbo harrows, min tillage, \$69,500. Fisher Branch, MB., 204-372-6056, 204-280-1202.

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 oilbath bearings. Red Deer, AB. www.kelloughs.com Call: 1-888-500-2646.

TILLAGE EQUIPMENT 4262

BOURGAULT 6000 medium harrows 90', \$25,000; Flexi-Coil 340 32' chisel plow c/w 4-bar harrows, anhydrous kit, \$16,000; Flexi-Coil 340 40' chisel plow, with 4 bar harrows, \$25,000. Dave 403-556-3992, Olds, AB.



ROME DISC MODEL TAW24-30, hyd. cyl., very little work since rebuild and new blades. C.W. (Bill) Ransom, 204-534-7255 or 204-534-7390, Boissevain, MB.

IHC 6400 54' chisel plow, 12" spacing, new NH3, boots and openers, new hoses, new walking beam shafts, \$33,000. Nipawin, SK. 306-862-7138 or 306-862-5993.

TRACTORS

CASE/IH 4286

2006 CASE MX285, 260 HP 3PTH, 4 hds., 3 PTO speeds, 6700 hrs., duals all around, exc. shape. 204-573-5780, Isabella, MB.

1996 CASE/IH 9370 Steiger 4WD, triple 20.8R42's, Ez-Guide 500 auto steering & GPS Nav. w/display, 5445 eng., hrs., N14 Cummins 360HP, 12 spd. synchro range trans., all clutches in exc. cond., 4 sets remote hyds. with new quick couplings, S/N JEE0037740, very clean, excellent cond., \$74,900 OBO. 306-374-5887, Quill Lake, SK.

1985 CASE 2096 w/Leon 800 loader, new rubber, AC completely redone, always shedded. 306-728-3443, Melville, SK.

2011 CIH STS 535 ProQuad, w/non def Big Block Cummins eng., PS, air assist luxury cab, Pro 600, AutoSteer, 36" tracks, 5 hds., tow cable, site glasses, 2986 hrs., shedded, \$289,000. 306-287-8292, 306-287-7707, Quill Lake, SK.

2000 MX120, equipped w/new Quicke loader, 4400 hours; 2000 MX170, 4600 hrs., equipped w/new Quicke loader. Call 204-522-6333, Melita, MB.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

IHC 5488 TRACTOR, new dual tires, low hours, 189 HP, excellent condition. 403-823-1894, Drumheller, AB.

2006 CIH STX375, powershift, PTO, 1917 hrs.; 2009 STX335, c/w 6-way Degelman blade/guard, 1281 hrs.; Two 2013 Magnum 260, FWA, deluxe cab, leather, 320 hrs.; 2015 Magnum 280, FWA, CVT, deluxe cab, leather, 608 hrs.; 2014 Versatile 250, FWA, GPS, etc. Ph Dave 403-556-3992, Olds, AB.

2016 CASE/IH PUMA CVT: 283 hrs. Unique Puma w/front TPH + PTO & Case/IH FEL, LED light pkg, Deluxe cab & seat, 50km/hr., 4 remotes, cab and front axle susp., CVT trans., 650/65 R42 rear, 540/65R30 Michelin's, heated w/elec. mirrors, 1000/540/540 PTO, spd. shiftable from in cab, fender PTO control, wheel weights, new cond., \$158,750 OBO. Call 306-861-2500 or email: krutentripres@gmail.com Weyburn, SK.

1086 REBUILT ENGINE, gear pump, 80% tires, new paint, can be equipped w/2350 loader. Everything in mint condition. \$15,000 OBO. 780-645-2206, St. Paul, AB.

STEIGER 4289



1976 JOHN DEERE 4430, great running tractor, good rubber, PTO good condition. \$11,500 OBO. 587-879-6669, Devon, AB.

1981 JD 4640 w/707 Leon loader, 6600 hrs., 3 hds., dual PTO, Quad Shift, single tires, \$24,900. 306-948-7223, Biggar, SK.

1983 JOHN DEERE 4450 MFWD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hds., 7925 hrs. showing, 14.9-26F, 20.8R32, duals available. 306-283-4747 or 306-291-9395, Langham, SK.

MASSEY FERGUSON 4301

MF 1155, 140 HP, 6000 hrs. (3800 on new eng.), 4 new tires, A/C, vg, \$10,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

STEIGER TRACTOR PARTS. New and used, from radiator to drawpin, 1969 to 1999. Give us a call 1-800-982-1769 or www.bigtractorparts.com

JOHN DEERE 4295

WHOLESALE PRICES ON JD Tractors. 2014 8245R, FWA, duals, 2 yr. factory warranty left, very good cond., possible trades. \$149,000 Cdn; 2012 9460R, 4 WD, duals, vg cond., \$230,000 Cdn. For more info, ph Neil 306-231-8300, Humboldt, SK.

2011 JD 9430T, 3780 hrs. Hi-Flow 78 GPM, 5 hds., 710-70R 42 duals, Deluxe cab, PTO, exc., cond. Call Carl 306-398-7713 for more info or pictures. Cut Knife, SK.

1995 JD 8100, MFWD, 840 loader, PS, new tires, 9043 hrs., excellent condition, \$76,000. 306-472-7704, Woodrow, SK.

JD 7730 MFWD, IVT, 1325 hours. 4 hyd., dual PTO, GreenStar ready, rear duals and weight, \$135,000 OBO. 360-537-3780, McLean, SK.

JOHN DEERE 4295

2000 JD 7810, FWA, Powershift, c/w 360H loader, GPS, new tires, \$76,500. Call Henry 403-588-0958, Alix, AB.

1985 4650, MFWA, 7300 hrs., 1000 PTO, 50% duals, PS, Raven GPS, recent w/o, LED lights, new batteries, very clean and reliable, \$44,000. 780-208-4808, Two Hills

STEVE'S TRACTOR REBUILDER specializing in rebuilding JD tractors. Want Series 20s, 30s, 40s, 50s, 7000s to rebuild or for parts. pay top \$\$\$. Now selling JD parts. 204-466-2927, 204-871-5170, Austin, MB.

2013 JOHN DEERE 5085, 4WD, only 103 hrs., cab, self-leveling loader, front & rear blades, excellent cond., \$83,000. Olds, AB., 403-556-2644, halutz2644@hotmail.com

2009 JD 7830 w/746 loader, grapple, 3 PTH, light pkg, power quad trans, 540/1000 PTO, Michelin single tires, 2079 hrs., exc. cond. 204-734-3728, 204-734-8662, Swan River, MB. tjgersak@gmail.com

WRECKING FOR PARTS: JD 8850 4WD, c/w (8) 24.5x32 Firestone tires between 70-80% tread, vg sheet metal; Case 2670, vg engine; Case 1570, vg engine; A/C 7050, good engine, 3PTH; MF 298, 3PTH. 1-877-564-8734, Roblin, MB.

2000 JD 7710, 5130 hrs.; 2000 JD 8100; 2002 JD 7810; 1996 JD 8100. All MFWD, can be equipped with loaders. 204-522-6333, Melita, MB.

2008 JD 7230 Premium, MFWD, 3 PTH, 3 hds. w/JD 741 FEL, bucket and grapple, 2677 hrs., vg condition. 306-625-7277, Stewart Valley, SK.

2002 JD 7410, FWD, left-hand reverse, new tires, w/JD 740 loader & grapple; JD 7710, FWD, left-hand reverse, 3 PTH, like new JD 740 loader & grapple avail. Barrhead, AB. 780-674-5516, 780-305-7152.

2009 JOHN DEERE 9430, 4WD, 425 HP 24 spd., 4 hds., 710/70R42 duals, 4257 hrs., original owner, nice condition, asking \$185,000. 306-725-4286, Bulveya, SK.



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2013 JD 9560R 4WD, 670 hrs., like new, deluxe cab, 5 remotes, GreenStar ready, hi-flow hyds., 520 triples at 95%, weight pkg., drive shaft shield update done, always shedded, oil changed every 100 hrs. and greased daily when used. Serviced and ready to pull. Pics available upon request. Exc. cond. \$265,000 USD. 701-571-2391, Fortuna, ND. waynech@nemont.net

2002 JOHN DEERE 9520, 4 WD, 6000 hrs., powershift, diff. lock, weights, AutoTrac, 800 Firestone duals, \$139,500 OBO. 306-621-8352, Jedburgh, SK.

1994 JOHN DEERE 6300 FWA, cab, 640 loader, PowerQuad, 540/1000 PTO, \$37,500 OBO. 780-877-2513 Ferintosh, AB

2010 JD 9630, 530 HP, Michelin 800/70R38 tires, JD AutoSteer, \$239,000. 306-563-8765, Canora, SK.

1976 JOHN DEERE 4430, great running tractor, good rubber, PTO good condition. \$11,500 OBO. 587-879-6669, Devon, AB.

1981 JD 4640 w/707 Leon loader, 6600 hrs., 3 hds., dual PTO, Quad Shift, single tires, \$24,900. 306-948-7223, Biggar, SK.

1983 JOHN DEERE 4450 MFWD w/Ezee-On FEL 2130 grapple, 15 spd. PS, 3 hds., 7925 hrs. showing, 14.9-26F, 20.8R32, duals available. 306-283-4747 or 306-291-9395, Langham, SK.

MASSEY FERGUSON 4301

MF 1155, 140 HP, 6000 hrs. (3800 on new eng.), 4 new tires, A/C, vg, \$10,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK



1975 MF 1135, 120 HP, A/C, rebuilt engine, rad., piston sleeves, turbo fuel pump and injectors, shedded, vg, \$15,900. Cam-Don Motors Ltd, 306-237-4212, Perdue, SK

MF 190 w/LOADER; MF 110 w/loader; Case 2290 w/loader. 306-283-4747, 306-220-0429, Langham, SK.

MASSEY FERGUSON 4301

2006 MF 1528 4 WD, hydrostatic trans., c/w MF 1520 loader, 60" bucket, 258 orig. hrs., asking \$14,995. Call 780-739-8084, 780-554-4736, Leduc, AB.

NEW HOLLAND 4304

2002 NH TJ450, very nice Firestone triples, powershift, approx. 4000 hrs., \$129,000. Call 306-948-7223, Biggar, SK.

2015 NEW HOLLAND T7.170 AutoCommand, MFWD, 1150 hrs., 50km/hr., 4 remotes, Intelliview, 4 monitor, front axle & cab susp, climate control, 1000/540/540E PTO, shiftable from in cab, PTO/remote fender control, elec. heated mirrors, front bumper weights, 650/65R38 rear, 540/65R28 front tires. Tractor is in absolute mint condition, \$119,500 OBO. For more info please call 306-861-2500 or email: krutentripres@gmail.com Weyburn, SK.

1999 NH 9482, Cummins M11 motor, 310 HP, 20.8R38 tires 70%, 10,400 hrs., no PTO, \$44,000. 306-236-7445, Goodsoil, SK

FORD 4307

FORDSON 671 TRACTOR w/7' cult., Select-O-Speed trans., exc. cond., pics available if interested. Call 306-378-2268, Elrose, SK.

VARIOUS TRACTORS 4319

GRATTON COULEE AGRI PARTS LTD. Your #1 place to purchase late model combine and tractor parts. Used, new and rebuilt. www.gcparts.com Toll free 888-327-6767.



2013 JD 7230R, 3000 hrs, IVT50K new loader \$149,000; 2013 Deere 8360R, 1300 hrs, IVT50K, \$232,500; 2012 MF 8690, CVT50K, GPS, \$129,000; 2011 Fendt 939, 1100 hrs, 65km/h, \$235,000; 2016 Fendt 936, 500 hrs, loaded, call for price; 2015 Fendt 939, 2100 hrs, VarioGrip, call for price; 2010 Claas Xerion, 2040 hrs, CVT50K, front 3PTH, 800R38, \$187,000; 2016 MF 8737, 400 hrs, front PTO, loaded, call for price; 2011 Amazone 5200L 3PT Spreader, \$12,900. Many more in stock! Clinton, ON. Call 519-955-1331 or visit www.rozendaalclinton.com

2005 MCCORMICK MTX120 w/Quicke loader, 3100 hrs.; 2006 MTX150. 204-522-6333, Melita, MB.

MISCELLANEOUS 4325

RETIRED: 2012 JD T-670 combine, 330 cyl hrs., 2013 JD 635 flex header, \$300,000; 2005 JD 4720 SP sprayer, 90', 1300 hrs., \$145,000; 1997 NH 9882 tractor, 3300 hrs., w/Deg. 16' dozer blade, \$100,000. 306-869-7141, 306-789-9992, Beaubier SK

UNRESERVED ONLINE AUCTION: Wholesalers Unused Blowout! Bids Close Saturday, July 29th at 1:00PM: Spectacular volume of corral panels, furnaces, fans, tampers & unused supplies in Saskatoon. PL #331787. View photos & details: www.mcdougallauktion.com

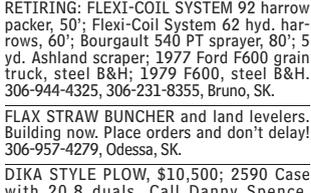
RETIRING: FLEXI-COIL SYSTEM 92 harrow packer, 50'; Flexi-Coil System 62 hyd. harrows, 60'; Bourgault 540 PT sprayer, 80'; 5 yd. Ashland scraper; 1977 Ford F600 grain truck, steel B&H; 1979 F600, steel B&H. 306-944-4325, 306-231-8355, Bruno, SK.

FLAX STRAW BUNCHER and land levelers: Building now. Place orders and don't delay! 306-957-4279, Odessa, SK.

DIKA STYLE PLOW, \$10,500; 2590 Case with 20.8 duals. Call Danny Spence, 306-246-4632, Speers, SK.

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ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Strawmaster, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

JD 2140 TRACTOR, 3PTH, dual hyd, diff. lock, good cond.; Leon 707 loader, w/QA bucket, little use. 306-594-2904, Norquay.

MISCELLANEOUS 4325

2011 MACDON A-30D 16' sickle mower conditioner w/stub guards, low acres. \$22,500. Photos. 306-542-8517, Togo, SK.

ROCK-O-MATIC No. 57 rock picker, PTO, 7' bucket, high lift, excellent condition, \$2500 OBO. 306-233-7889, Cudworth, SK.

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NH CHAIN BALER, \$2500; Neupro grain vac, \$3000; 34' factory drill mover, \$2000; 72' Flexi-Coil harrows, \$5000; 80' Vers. harrow \$3000. 306-304-1959 Goodsoil, SK.

PRECISION PRESSURE WASHER: 13HP 4000 PSI at 4 GPM, diesel water heater, 2 wands, lots of nozzles. Only used for 1 hour! Leaks diesel. Both wands leak 2 new tires. Paid \$3600, no warranty. Sold 'as is where is'. I will not touch this unsafe unit. Whaddya gimme for this pile of junk. 306-736-7800, Windthorst, SK.

1986 JD 7721 Titan II combine; Versatile 4400 24' swather, gas, with pickup reel; (2) Goebel 2300 bu. hopper bins on skids, 1 w/3 HP fan & propane burner; (2) Goebel 2500 bu. bins on wood floor; Metal Industries Ltd. 2700 bu. hopper bin on skids; Westle 1650 bu. hopper bin on skids. 306-365-4643, Lanigan, SK.

FORD 750 w/20' B&H, rollover tarp, \$8500; Vac tank, 1800 gal. and pump \$8000; IHC Model 252 forklift, gas, \$5000. 306-304-1959, Goodsoil, SK.

SELLING THE F

IRRIGATION EQUIPMENT 4980

NEW 2013 Cummins 8.3L natural gas irrigation motor, \$46,000; 549 Int. natural gas irrigation motor w/pump \$2500; 549 International natural gas irrigation motor, \$1000. Can-Am Truck Export Ltd., 1-800-938-3323, Delisle, SK.

WESTERN IRRIGATION: CADMAN Dealer. We BUY and SELL traveling guns, pumps, pipes, etc.; 1 Cadman 4000S wide body big gun, like new; Selling used pipe trailers & 10" pipe; Also EcoSmart water purification systems, no salt, no chemicals. Phone 306-867-9461 or 306-867-7037, Outlook, SK. E-mail: deraldreg@hotmail.com

LANDSCAPING

LAWN/GARDEN 4988



1981 ALLIS CHALMERS H/D 5020 garden tractor, engine S-126, 2 cylinder diesel, 4 spd. trans., Woods L-55 cutting deck attached under tractor, \$6,000 OBO. Call Bill 780-482-5273, Edmonton, AB.

NURSERY/GARDENING SUPPLIES 4990



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QUILL CREEK BISON is looking for finished, and all other types of bison. COD, paying market prices. "Producers working with Producers." Delivery points in SK. and MB. Call 306-231-9110, Quill Lake, SK.

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WANT TO PURCHASE cull bison bulls and cows, \$5/lb. HHW. Finished beef steers and heifers for slaughter. We are also buying compromised cattle that can't make a long trip. Oak Ridge Meats, McCreary, 204-835-2365, 204-476-0147.

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CATTLE

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Friday, September 15

10am - Lethbridge Lodge, Lethbridge, AB

Expecting over 30,000 calves

Fort Macleod Auction

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BLACK ANGUS 5010

30 BLACK ANGUS 2 year old bulls. Calving ease and performance lines. Board and delivery available. Rob Garner 306-946-7946, Simpson, SK.

BLACK ANGUS YEARLING and 2 year old bulls on moderate growing ration, performance information available. Call Adrian or Brian and Elaine Edwards, Valleyhills Angus, Glaslyn, SK. 306-441-0946 or 306-342-4407. www.valleyhillsangus.com

REGISTERED BLACK ANGUS Bulls, 3 years old, \$4000; 1 registered Black Angus cow with heifer calf, \$3500; 4 Speckle Park bred heifers. 306-594-2904, Norquay, SK.

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

MIDNITE OIL CATTLE CO. has on offer semen tested yearling and 2 year old bulls. 306-734-2850, 306-734-7675, Craik, SK.

SOUTH VIEW RANCH has Black and Red Angus yearling and 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

BLACK MEADOW'S ANGUS offers for sale: High quality Black Angus bulls, bunk fed alfalfa based ration, fertility tested, full vaccination program. Free delivery. Complete CAA info. available. Contact Bill 204-567-3782, Miniota, MB.

OLE FARMS is offering a large selection of Black and Red Angus 2 year old bulls. Call 780-689-8324, Athabasca, AB.

BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.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.

RED ANGUS 5015

COW HERD DISPERSAL: Purebred Red Angus. Herd established 1982, 85 spring pair, 24 replacement heifers, 15 fall pair. Herd bulls available. Located in Alberta's beautiful Peace River country. The cows and the scenery is worth the trip! Lloyd or Donna 1-800-667-2251, Cleardale, AB. clearrivergroup@gmail.com

RED ANGUS 5015

NICE, 2-YEAR-OLD BULL, sired by easy calving AI son of Red Glacier Logan. Also a yearling bull, same breeding. Call 306-764-7886, Prince Albert, SK.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

2 YR. OLD Red Angus bulls, pail fed, quiet disposition, some suitable for heifers. Call 306-773-6633, Swift Current, SK.

20 RED ANGUS 2 yr old bulls. Calving ease and maternal lines. Board and delivery avail. Rob Garner 306-946-7946, Simpson

SOUTH VIEW RANCH has Red and Black Angus yearling and 2 yr old bulls. Ceylon, SK. Phone Shane 306-869-8074, Keith 306-454-2730.

CHAROLAIS 5055

2 YEAR OLD registered purebred Charolais bulls, polled, white, good feet, lots of hair, easy keeping, very quiet. Semen tested and delivered. Call Qualman Charolais, 306-492-4634, Dundurn, SK.

YEARLING AND 2 YEAR old bulls, sired by Silver Bullet, Roundup and Velocity, semen tested, Martens Charolais & Seed. Boissevain, MB. Ph 204-534-8370, 204-534-6952

5 POLLED PUREBRED yearling bulls, 1 white, 1 dark red, 3 tan, sired by low birth-weight bulls. 306-931-8069, Saskatoon, SK

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

130 PUREBRED Charolais cow/calf pairs. 80 cows bred AI & 65 AI calves at side. TMJ Farms, 204-768-2819, Ashern MB.

DEXTER 5065

OLDER DEXTER COWS, bred Speckle Park, due Apr; Speckle Park/Dexter cross 2 year bull. 403-845-5763, Rocky Mtn. House, AB

HEREFORD 5090

EXCELLENT SELECTION of polled 2 yr. olds and several proven 3 year and select yearlings. Properly developed to last. Deposit holds til needed. Delivery avail. Longworth Land & Cattle, Harris, SK., 306-831-9856.

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.

BREED HOLSTEIN HEIFER, and some jerseys for sale. Call 519-323-3074, Heifer Ville Holstein Inc., Holstein, Ont.

LIMOUSIN 5115

GOOD SELECTION OF stout red and black Limousin bulls with good dispositions, calving ease. Quality-T Limousin, Rose Valley, SK. 306-322-7563 or 306-322-7554.

SPRINGER LIMOUSIN has very quiet yearling Purebred Limousin bulls. Red or Black. Call Merv at 306-272-4817 or 306-272-0144, Foam Lake, SK.

POLLED RED AND Black Limousin 2 year old bulls. Board and delivery available. Rob Garner, Simpson, SK., 306-946-7946.

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.

SALERS 5185

POLLED PB THICK Butt Salers yearling bulls, exc. disposition, tested. Also replacement heifers. DynaRich Salers. Richard Andersen, 403-746-2919, Eckville, AB.

PB BULL and HEIFER calves for sale in Oct. w/wo papers, \$1900. Art or Betty, Drayton Valley, AB., 780-542-5782, 780-621-6407

SIMMENTAL 5205

BLACK YEARLING SIMMENTAL BULLS, moderate BW, excellent temperaments, semen tested, ready to go. Bill or Virginia Peters, 306-237-9506, Perdue, SK.

TEXAS LONGHORN 5225

REG. TEXAS LONGHORN bulls, pairs and open heifers. Call Dean at Panorama Ranch, 403-391-6043, Stauffer, AB.

WELSH BLACK 5235

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240

HERD DISPERSAL: 70 Black Angus cross pairs and 70 mixed pairs. Full herd health program. Pasture available. \$2800 per pair firm. Call 306-335-7875, Lemberg, SK.

300 RED AND BLACK Angus 1250 lbs. heifers with calves. Call 306-773-1049, 306-741-6513, Swift Current, SK.

HERD FOR SALE: Due to health we are putting our complete herd up for sale. Consists of 160 Simm/Angus cross, (ages from 2-7 years), 35 bred heifers and 2 Angus bulls, to start calving in February. Will keep til Nov. 204-722-2107, McAuley, MB.

HERD REDUCTION: 30 red cow/calf pairs, red and tan calves, \$2500/pair. Call 306-478-7007, Mankota, SK.

100 THIRD TO FIFTH Black Angus cow/calf pairs. 306-773-1049, 306-741-6513, Swift Current, SK.

CATTLE WANTED 5245

WANTED: CULL COWS and bulls. For bookings call Kelly at Drake Meat Processors, 306-363-2117 ext. 111, Drake, SK.

HORSES 5305

AUCTION SALES 5305

MBPHB LOUD AND PROUD Foal and Horse Sale, Sept. 16, 1 PM DST, at Spot A Quarter Arena, Pierson, MB. 204-634-2375 for info. www.mbpainthorsebreeders.com

31st ANNUAL ROCKING W Horse Sale, Sat. Sept. 2nd, Keystone Centre, Brandon, MB. Rick 204-325-7237. www.rockingw.com

CANADIAN 5327

REGISTERED TEAM OF CANADIAN horses, gelding's 15 yrs. old., all black, 15 HH, so well matched that you can't tell them apart! Sound in every way, feet excellent, weigh approx. 1450 lbs./ea., well broke to drive, used on sleigh rides, pull mowers and hay rakes, \$7200 for the team. 250-785-5073, Charlie Lake, BC.

PAINT 5390

2017 PAINT COLT, out of black breeding stock mare, sired by buckskin quarter horse stallion, bloodlines lead to Major Bonanza, asking \$550. Phone 306-865-4168, or 204-724-2623, eves. Can text pictures.

STALLIONS, GELDINGS, MARES. Phone: 306-283-4495 (evenings), Langham, SK. www.livingwaterpaintsandquarters.com

PERCHERON 5400

ONE BLACK PERCHERON GELDING, 15 years old., 16.2 HH, well broke to drive, beautiful horse, easy to catch! \$2500. Phone 250-785-5073, Charlie Lake, BC.

QUARTER HORSE 5415

11 YR. QH gelding, 15.3 HH, broke to ride, quiet, \$1800 OBO; Yearling fully buckskin colt, \$500. 306-281-8440, Saskatoon, SK.

HORSE SALE: 20TH Annual September Showcase. Moose Mountain Ranch selling over 50 head of exceptional prospects, Sept 9, 1 PM. OBO. Weyburn Livestock Exchange, SK. www.septembershowcasesale.com

HORSES VARIOUS 5460

WANTED, DRIVING HORSES: must be well broke to handle, harness, catch load, trim. Under 16 HH, guaranteed sound, single or team considered. Fjord preferred, other breeds considered; WANTED: Draft horse, 17 to 18 HH, 2200 lbs., Percheron preferred, not for pulling or meat. 403-874-7616, Irticiana, AB.

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddie's, 1-800-390-6924 or keddie.com

SHEEP 5595

SHEEP WANTED 5595

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ALPACAS 5753



ALPACAS FOR SALE, farmed for their fibre. Easy, gentle livestock, perfect for family venture or acreage living. 306-725-7243, Strasbourg, SK. Visit: www.countryvista.ca

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HYDRAULIC ELK FENCE roller, \$2000 OBO. Ph/text 204-723-0234, Notre Dame, MB.

ELK WANTED! If you have elk to supply to market let AWAPCO be your first choice. \$11.50/kg. Call our office at 780-980-7589, info@wapitriver.com

BUYING ELK for local and international meat markets. Paying up to \$12 per kg FOB plant. Phone Ian at 204-848-2498 or 204-867-0085.

NORTHFORK- INDUSTRY LEADER for over 15 years, is looking for Elk. "If you have them, we want them." Make your final call with Northfork for pricing! Guaranteed prompt payment! 514-643-4447, Winnipeg, MB.

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10' GEM SILAGE BAGGER. Phone 306-227-0294, Hague, SK.

IHC 8840 14' auger and tub guards, 2279 hours, \$20,000. 403-932-2131 days only, Cochrane, AB.

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GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$450; 24'x5.5' panels, 2-7/8" pipe with 5-1" sucker rods, \$340; 24'x6' panels, 2-7/8" pipe with 6-1" rods, \$365; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Calf shelters. Del. avail. 306-768-8555, Carrot River, SK.

FREESTANDING CORRAL PANELS for cattle, horses, bison and sheep. Bale feeders; Belted feed troughs; 10' panels; Wind-break frames; Swinging gates; Framed gates; Panels with gates mounted; Round pen kits starting at \$1495; Palpation chute. Deal of the year - Freestanding 21' for \$219! Call 1-844-500-5341, www.affordablelivestockequipment.com

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SVEN ROLLER MILLS. Built for over 40 years. PTO/elec. drive, 40 to 1000 bu./hr. Example: 300 bu./hr. unit costs \$1/hr. to run. Rolls peas and all grains. We regroove and repair all makes of mills. Call Apollo Machine 306-242-9884, 1-877-255-0187. www.apollomachineandproducts.com

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STEEL VIEW MFG. Self-standing panels, windbreaks, silage/hay bunks, feeder panels, sucker rod fence posts. Custom orders. Call Shane 306-493-2300, Delisle, SK. www.steelviewmfg.com

NEW HOLLAND 353 MIXMILL, asking \$2000. Call 306-422-5585, St. Louis, SK.

FREESTANDING PANELS: 30' windbreak panels; 6-bar 24' and 30' panels; 10', 20' and 30' feed troughs; Bale shredder bunks; Silage bunks; Feeder panels; HD bale feeders; All metal 16' and 24' calf shelters. Will custom build. 306-424-2094, Kendal, SK.

FFS- FUCHS FARM SUPPLY is your partner in agriculture stocking mixer, cutter, feed wagons and bale shredders and industry leading Rol-Oyl cattle oilers. 306-762-2125, Vibank, SK. www.fuchs.ca

MISC. ARTICLES 5850

USED PIPE, SUCKER Rods: 2 3/8", 2 7/8", 3 1/2" pipe, \$36 ea. 7/8", 1" sucker rods, \$12 each. 306-460-7966, 306-460-4166, Kindersley, SK.

ORGANIC PRODUCTS

CERTIFICATION SERVICES 5943

WANT THE ORGANIC ADVANTAGE? Contact an organic Agriologist at Pro-Cert for information on organic farming: prospects, transition, barriers, benefits, certification and marketing. Call 306-382-1299, Saskatoon, SK. or info@pro-cert.org

GRAINS 5947

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

GRAINS 5947

Bioriginal

Bioriginal Food & Science Corp. is actively purchasing:

- Organic Flax Seed
- Organic Hemp Seed and;
- Borage Seed

(from the 2016 crop year)

REAL ESTATE

B.C. PROPERTIES 6110

BRITISH COLUMBIA RANCH: Cariboo Region 1374.3 ac. ranch. Beautiful home site on Green Lake North Road. Beautiful view of Green Lake to the Marble Mountains. Shared airstrip. 9 properties in total. Frontage on Round Lake & Boyd Creek. For sale by owner, \$2,200,000. 250-456-7341, 250-456-7727, 70 Mile House, Green Lake, BC. searon@bcinternet.net

COTTAGE/LOTS 6125

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A COMPLETE FULL LINE OF WINDOWS!!!
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32" and 36" SUNBURST
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HOUSES/LOTS 6126

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MOBILE HOMES 6127

YELLOWHEAD MODULAR HOME SALES, Canadian built by Moduline. Elite price event on now: 960 sq. ft., 2 bdrm, 2 bath, \$79,900; 1216 sq. ft., 3 bdrm, 2 bath, \$89,900; 1520 sq. ft., 3 or 4 bdrm, 2 bath, \$109,900. 306-496-7538, weekend calls. www.yellowmodularhomesales.ca

12X60 MOBILE HOME, 2 bdrms, newer appliances, w/10x12 porch. Best offer takes all. 306-482-5121, Carnduff, SK.

MOBILE HOMES 6127

2011 MODULINE MODULAR, 20x76 1520 sq. ft., 3 bdrm, 2 bath in excellent shape! \$105,000 FOB Thorsby. 403-396-8509 delee@westerncanadianmodular.com

WWW.MEDALLION-HOMES.CA modular homes/lake houses/RTM's. Visit our sales lot, or check online for stock, homes and all other plans. Factory direct orders built to your specs! Trade-ins welcome, buy and sell used homes. Hwy 2 South, Prince Albert, SK. Call 306-764-2121 or toll free 1-800-249-3969.

1992 TRIPLE E Mobile home, 16x70, fair shape, 2 baths, 3 bedrooms, as is blocking and skirting, plus large deck, 5 appliances, \$20,000 OBO. 403-740-4837, Endiang, AB.

READY TO MOVE 6128

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HOME HARDWARE RTM Homes and Cottages. Phone 1-800-663-3350 or go online for floor plans and specs at: www.northbattlforthhomehardware.com

READY TO MOVE MODULAR. Beautiful, well-kept, 1250 sq. ft., 3 bed., 2 bath single family home. Vaulted ceilings, large kitchen, jacuzzi off master bedroom, central air. Numerous renovations. \$85,000. 204-571-1254, elnicol@mymts.net

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FARMS & RANCHES

BRITISH COLUMBIA 6131

IDEALLY LOCATED LOG home. Property offers an income suite downstairs with its own entrance. 71.75 acres. Hay and pasture field, \$549,000. 250-449-1982, Greenwood, BC. Email: bob.bordercountry@gmail.com soldbybob.ca

178 ACRE RANCH, beautiful view of the Seven Sisters mountains, exc. land and water, house, barn, shop, hay shed and outbuildings, on Hwy #16 between Smithers and Terrace, \$650,000. 250-849-8411.

1405 ACRED DEEP CREEK RANCH, located SE of Vanderhoof, being sold "as is" including full line of equipment, furnished home and shop, Crown grazing license. Great cow/calf operation, \$1,295,000. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert, 250-983-3372 bkgranholm@xplornet.com

MARGUERITE RANCH (QUESNEL) 26 titles, 3095 acres deeded, 450+ cow/calf operation. Irrigated, 58,000 acre range, 3 home sites, \$4.99M. Call Bob Granholm, Re/Max Quesnel Realty, your Cariboo Ranch Expert. More info and other listings: 250-983-3372 bkgranholm@xplornet.com

ALBERTA 6132

BUYERS for farms and ranches. Henry Vos, 780-835-1992, Royal LePage Realty. www.peacereverfarmsandranches.com

WORLD CLASS OUTDOOR Adventure! This 1/4 section on the Oldman river has a 7 bedroom home with iconic mountain views, plus a 3 car garage a 40'x60' pole building to store RV's, boats, quads or Airplane. Enjoy your own half-mile stretch of river frontage! MLS® Cowley ID#1100550. Real Estate Centre, 1-866-345-3414. For all our listings visit: www.farmrealestate.com

1 QUARTER OF LAND, half treed, half hay/pasture land. 17 miles North of Rimbey, AB. Call for more info. 403-843-2889.

ALBERTA 6132

QUARTER SECTION FARMLAND For Sale: SW-21-83-6-W6. 14 miles west and south of Hines Creek, AB. Approx. 125 acres in crop, 10 acre tame pasture. Vacant yard-site, barn, and power. Immediate possession. If interested, call 780-494-2130.

SASKATCHEWAN 6133

SE OF MELVILLE, SK: 22 quarters (3463 acres) predominantly H soil (Oxbow Loam) all in grass/Alfalfa can go back to grain, new assessment \$3,393,300. Exclusive listing \$3,535,000. Royal LePage Premier Realty, Larry Hanowski, 306-728-9033 Email: hanowskifarms@sasktel.net

BIG RIVER AREA: 3100 sq.ft. family home w/many great features. Very bright w/lots of windows. Heated w/in-floor (glycol) by propane and wood, and also a large wood fireplace. The property is 154 ac. of mainly bush pasture and fenced w/8' game fence and one electric wire. The yard is serviced w/water well. Other outbuildings included. This property is a must see! MLS®611536 Call Lloyd Ledinski, RE/MAX of the Battlforth, 306-446-8800 or 306-441-0512.

RANCH FOR SALE between Glaslyn & Cochin, SK. 17 quarters of hay land & pasture land, will hold 200 cows. 306-342-4433.

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In Saskatchewan
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UNRESERVED AUCTION: 417 Acres of River Frontage, August 19, 2017. ID#1100561, Preeceville, SK. Features include: Certified Organic farmland, a 980 sq.ft. home, 2 shops, beautiful river frontage, a nice recreation/camping area, good farming potential, an active gravel pit with \$5000 rental income. Real Estate Centre, 1-866-345-3414. For all our listings visit www.farmrealestate.com

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(306) 441-4152
kevin.jarrett@HammondRealty.ca
HammondRealty.ca

3 QUARTERS GRAIN LAND in RM 331. By online AUCTION at http://bidwin.org. Qing Zhang, Landmart Realty, 306-684-0136, qing.canada@gmail.com Arran, SK.

SASKATCHEWAN 6133

FARMLAND FOR SALE by Tender, RM of Argyle #1, 6 quarters. One section: NE NW SE SW of 25-01-30-W1, SE-36-01-30-W1 and SW 36-01-30-W1. Tenders must be received on or before Aug. 31, 2017. Submit written tenders to: Bonner Enterprises Inc, 54 St. Andrews Bay, Emerald Park, SK. S4L 1A1. 306-781-3377, 306-535-7822 Dale. Highest or any tender not necessarily accepted.



LIVESTOCK, cow/calf, sheep, horses, chickens, etc. Barn, quonsets, house. Viscount, SK. \$399,900. MLS® 617574, Art Urbanowski, Royal LePage Hallmark, Saskatoon, SK., 306-222-2206.



FARM FOR SALE: Nestled in the heart of the Moose Mountains sits a beautiful piece of land with a 4 year old custom built home. This property includes 4 quarters of land with oil revenue and a 2580 sq ft + fully finished walkout basement, 5 bdrm, 4 bath home. Geothermal heat and heated double car garage. Full wrap around deck to enjoy the beautiful views. 20 minutes from Kipling, SK., \$1,650,000. 306-736-8215, 306-736-7153, email: kf_arn@hotmail.com

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FARMLAND NE SK (Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres wheat, mustard, barley & peas. Full line of farm and sawmill equipment also available Will separate. Reg Hertz, 306-865-7469.

SASKATCHEWAN 6133

FARMLAND WANTED

NO FEES NO COMMISSIONS

PURCHASING: SINGLE TO LARGE BLOCKS OF LAND. PREMIUM PRICES PAID WITH QUICK PAYMENT.

Many References Available
A TOTAL OF 590 QUARTER SECTIONS SOLD ACROSS SASKATCHEWAN!
RENT BACK AVAILABLE

Call **DOUG**
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Email: saskfarms@shaw.ca

RM OF MANITOU LAKE for sale by Tender. 11 quarters offered in three parcels. Cropland, pasture, oil revenue, and grain bins. Details at www.boothlandtender.ca Tender closes 12 PM, August 29, 2017. Vern McClelland, Associate Broker, Re/Max Lloydminster, 780-808-2700.

INCOME BEARING LAND: NW-16-03-06 W2 for sale. 150+ acres. Includes house, quonset, gas tanks, grain bins, tractors & mower. RM#4, Bienfait, SK. 306-634-2216

MANITOBA 6134

BINSCARTH, MB - 142 ac. of land in and overlooking the beautiful Assiniboine Valley! 3090 sq.ft. house w/walk-out. Detached double car garage. 50'x80' insulated shop, in floor heat, 400 amp. single phase power. 28'x80' insulated shop. 40'x60' storage shed. Close to Esterhazy potash mines. MLS®1704293. Karen Gorluk, Salesperson. 204-773-6797. NorthStar Insurance & Real Estate, north-star.ca

RM OF GILBERT PLAINS, Taking offers for the sale of the following 5 quarters (approx. 700 ac. cult.): NW-33-26-22-W1; SW-32-26-22-W1; NE-18-27-22-W1; SW-17-27-22-W1; NW-17-27-22-W1. Yard with hydro., 40'x60' insulated workshop, 51'x82' quonset shed, approx. 22,000 bu. grain storage, older 1 1/2 storey house. Highest or any offer not necessarily accepted. Consideration may be given to selling the above quarters separately. For more info. please call 204-334-9986.

9 QUARTER FARM package, 1090 cult. acres. Well Est. yard. Russell, MB. MLS® 1708171. Call Lyndon Shuya, Royal LePage Martin-Liberty Realty, 204-773-6210.

3 QUARTERS WITH YARDSITE: 477 acres in a block. Mixed farm, 300 arable acres. Fenced and cross fenced, 2 shallow wells., 40'x60' machine shed, 34'x44' pole shed, barn, corrals, hay fence. 24'x32' bungalow, w/double attached garage. Located beside the Riding Mtn. National Park. Contact Karen Gorluk-Salesperson, 204-773-6797. NorthStar Insurance & Real Estate. MLS®1701622. www.north-star.ca

EXCELLENT LIVESTOCK FARMS: 1) 1732 deeded acres with 4425 acres of Crownland, fenced, small bungalow, very good buildings and metal corral system, can carry 350 cow/calf pairs. 2) Excellent horse ranch in Erickson, MB., Riding area and buildings in fantastic condition. 3) 640 acre mixed farm within 15 min of Brandon. 4) 800 acre cattle farm, Rorketon, MB., 1500 sq. ft. home, heated shop. 5) Modern house and 160 acres of pasture, 15 mins. to Brandon. 6) 320 acre farm, Carnduff, Jim McLachlan 204-724-7753, Re/Max Valleyview Realty Inc., Brandon, MB.

MANITOBA 6134

CATTLE FARM - 11 quarters and 2 Crown quarters in a block. Near Roblin, MB. along the Duck Mtn. Prov. Park. Approx. 1100 workable acres, majority is hay. Fenced. Dugouts. May consider selling parcels. Scenic area. Yardsite has a 30'x66' pole shed/work shop. 2 cattle shelters. Corrals. MLS #1627477, Karen Gorluk, Salesperson, 204-773-6797. NorthStar Insurance and Real Estate, visit the website at www.north-star.ca

PASTURES 6136

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AG EQUIPMENT OPERATORS required for central AB silage crew. Equip. experience necessary but willing to train. Operate and maintain Claas forage harvesters in a crew environment. Seasonal work til Nov. Winter work avail. Also Class 1 and 3 driver positions. Above avg. wages and accommodations avail. 403-994-0561, Didsbury, AB.

RANCH HAND REQ'D: Machinery & livestock experience, clean driver's abstract. comes with house, Millarville, AB. Email resume w/references to: uxlanching@gmail.com

FARM HELPER REQUIRED on grain farm. Class 1, farm experience and some mechanical skills would be an asset. Wages depending on experience. Phone or text 306-228-8333, Tramping Lake, SK.

POSITION AVAILABLE, Cypress Hills, SK. area. Background yearling grasser operation and cow/calf. Modern facilities and equipment. Good working environment. Class 1 preferred. Wages negotiable depending on experience. Ph. 306-295-7473.

FARM HELP WANTED for grain farm at Semans, SK. Wages depending on experience and abilities. Call Tom 306-746-8070 or Grant 306-746-7336. Send resumes and references to ggreenshields@aski.ca

SK GRAIN FARM hiring full-time and seasonal workers. Experience w/equip, valid license, willing to work ext. hrs. Maintenance/operating equip., general labour. References required, wages according to experience. tammydanychuk@gmail.com

FULL TIME FARM LABOURER needed in Kamsack, SK. Applicant will be required to operate farm equipment, mechanical ability considered an asset. Send resume & references to bcgeerts@execulink.com or call Carol at 306-590-8537

HELPER WANTED ON mixed farm. Steady job for right person. Room and board avail. 403-631-2373, 403-994-0581, Olds, AB.

2 FULL-TIME FARM Laborer positions on large mixed farm. Wages \$18-\$25/hr. depending on experience. Individuals should have good work ethic, positive attitude, mechanical skills and be able to work with others. Duties include: Operating and maintaining medium to large farm equipment. Must have previous farm experience. Furnished housing w/utilities avail. for \$500/mo. Non-smoking environment. Fax 306-264-3752 or call 306-264-7742. Paul Lacasse, Lacasse Farms, Box 207, Kincaid, SK. S0H 2J0.

FARM/RANCH 8016

RANCH HAND WANTED for general farm labour duties. Located between Regina and Moose Jaw. No accommodations. Call 306-731-2821 or 306-596-0507.

RETIRED (but not tired) FARMERS for seasonal seeding and harvest work or young farm person on organic grain farm near Saskatoon, SK. Good wages and overtime. Email wallace.hamm@pro-cert.org or call 306-382-9024.

FULL-TIME FARM HELP WANTED for general farm labor on a large, mixed farm. Housing is available. For more info please call 780-745-2540, Paradise Valley, AB.

WEYGA FARMING LTD is a large grain farm located in the County of Camrose, AB. Weyga Farming was est. in 1974 and has grown steadily since. To support our experienced team we are looking for a **FULL-TIME FARM EMPLOYEE.** We are offering an interesting opportunity that involves responsibility, working with newest equipment, and a long term perspective. Our main yard is only 10 mins. away from the centre of Camrose, ideally situated for a family who enjoys country life and the advantage of a nearby city. Our employees enjoy a company benefit plan and generous holiday time in return for dedicated services. If you are a team player, have farming experience, and are not afraid of technology, we would like to hear from you. For more information please contact Markus Reyerding 780-608-4481, email: weyga-farming@weyga.farm

FARM/RANCH 8016

LIVESTOCK YARD HELPERS, Penner's & Sorters: Agricultural livestock workers needed. Duties include: Loading & unloading cattle; Feeding & processing cattle; Sorting cattle; Cleaning, repair and maintenance of facilities. Full and Part-time positions available. Wages to commensurate with experience. Please forward resume to: sold@balogauction.com

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.

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FOLLOW ON:

CUSTOM HARVESTER AND large grain farm looking for truck drivers, combine, and grain cart operators to go on custom harvesting run in SK and ends in Northern SK./AB. Operating 4 new John Deere S670 combines and Peterbilt semi's. I may help obtain Class 1A license, year round employment hauling logs, grain or crude oil. 306-456-2877 please leave message or fax resume to 306-456-2835, Bromhead, SK. Email: bkfarms@outlook.com

Sunhaven Farms Milling is accepting applications for the position of ASSISTANT FEED MILL MANAGER/MANAGEMENT TRAINEE

for our feed mill located at Irma, Alberta.

RESPONSIBILITIES:

- Running of feed mill, programming rations, minor maintenance, receiving procedures.
- Taking feed orders, scheduling production, and loading trucks.
- Overseeing the quality control program for ingredients and complete feeds.
- Supervise and oversee at least 2 other staff.
- Managing and maintaining documentation for CFIA.
- Ingredient purchasing.

SKILLS, ABILITY AND QUALIFICATIONS REQUIRED:

- Strong leadership and interpersonal skills.
- Strong analytical, problem solving and organizational skills.
- Ability to work effectively in a team environment.
- Experience in feed milling and management an asset.

We offer an excellent compensation and benefits package, on-going professional development opportunities and a chance to grow with us.

Email resume with references to
bthorburn@sunhavenfarms.com or fax to **780-842-6917**

PROFESSIONAL 8032

REGIONAL REPRESENTATIVE - MANITOBA Canadian Foodgrains Bank is a partnership of 15 Canadian churches and church-based agencies working together to respond to global hunger. We are recruiting for a **Regional Representative** to join our Resources and Public Engagement Team. Based in Manitoba and working throughout the province, this home-based position is responsible for supporting local volunteers in community growing projects and other fundraising events, inviting communities, congregations and individuals to support our work, raising awareness of the issues that contribute to hunger, and liaising with donors, agribusiness and media. This position requires use of your own vehicle for extensive in-province travel. Good knowledge of the Manitoba agriculture and church sectors will be essential. This is a full-time position, but we would also consider proposals from those interested in a half time job-share arrangement. For a complete job description and application information, visit: www.foodgrainsbank.ca. Application deadline is August 9, 2017.

TRADES/TECHNICAL 8044

FULL-TIME AG SERVICE TECHNICIANS: Dennill's Agrcenter in Dewberry, AB is a progressive MF & Challenger farm equipment dealership. We are hiring full-time Journeyman/Apprentice Tech's. Salary is market competitive based on experience. Comprehensive benefits package & RRSP plan available. Apply in person w/resume, email: tammy_matechuck@dennill.com and/or morley_dennill@dennill.com or phone: 780-847-3974.

TRUCK DRIVERS 8046

NOW HIRING LIVESTOCK and Bulk Lease Operators. We have a sustainable pay package and a strong customer base. Our fleet travels throughout Canada and USA. Call Lee-Ann for more info. on how to join our team at 306-692-8488 Ext. 4, Moose Jaw, SK.

TRUCK DRIVERS 8046

1A DRIVER NEEDED Experienced driver position open in SE Sask. Oilfield, winch, Texas bed and equipment experience necessary for moving equipment in SE Sask and western Canada. Ranging from 400 BBL tanks, cat hoes, shacks etc. Tractor trailer combinations from 6 - 10 axles. Candidates must be energetic, physically fit & some mechanical ability would be a plus. Forward resume & abstract to: flyingu@sasktel.net

SEASONAL HEATER UNIT Operator positions available in AB and SK. If you are a Class 1 or Class 3 driver working on a farm in the summer and looking for winter work, we have the perfect position for you! Pat's Off-Road Transport Ltd. has Heater Truck Operator positions available. Must be willing to be away for extended periods of time and willing to travel to various locations in AB and SK. All accommodations are paid for by the company. Potential to earn up to \$10,000 per mo. Send your resume and Drivers Abstract. Fax: 403-504-1711, email: patsoffroad@thehat.ca or apply in person to: #2, 1651 Broadway Ave. E, Redcliff, AB.

DRIVERS FOR PIPE HAUL: Divers required to haul pipe for pipeline. Class 1 required. Starting at \$30/hr plus overtime pay after 10 hours/day or 50 hrs/week. Plus tax free living allowance, H&W benefits and pension. Call 780-400-0509 ext. 509. Visit our website: www.PioneerTruckLines.com Forward latest abstract and resume to: LucienBleau@PioneerTruckLines.com or fax to: 780-417-8956.

TRUCK DRIVER. LOOKING to hire company drivers hauling oversize equipment Canada and US. Must have valid 1A and current Passport. Group health plan, competitive wage. Knowledge of Ag equipment an asset. More info. contact 306-776-2349, 306-536-3484, Rouleau, SK.

EMPLOYMENT WANTED 8050

SENIOR LOOKING FOR position managing small farm, few animals. In AB or SK. Reply w/details to: Box. 5605, c/o The Western Producer, Saskatoon, SK., S7K 2C4.

BOURGAULT Pursuing Perfection

Bourgault Industries Ltd.
- Australia

PRODUCTION and TECHNICAL SUPPORT MANAGER

BOURGAULT AUSTRALIA is seeking a production and technical support manager for the new eastern distribution centre in Albury NSW. The distribution centre primarily receives manufactured goods shipped in containers from St. Brieux. Some specific options are sourced in Australia for fitment to machines to adapt to various agronomic requirements.

The successful applicant will provide technical support to the territory managers and to the support staff within the dealer network, however this will extend to the customer/owner in some situations. This support role is backed by the service support team in St Brieux. The individual must be capable of performing technical training for dealer service teams. The role will include the administration of warranty claims received from eastern state dealers.

DUTIES:

- Position is based out of the factory in Albury, NSW, Australia
- Manage the assembly department - Tillage and Air Seeder value streams.
- Troubleshoot as issues arise - production to service issues
- Provide dealer/customer support on all Bourgault products - this will require some periods of travel.
- Provide dealers/customers with technical assistance through phone inquiries and on-call service.
- Communicating and enforcing the procedures and policies identified in the Bourgault Warranty Policy Manual to the dealer/customer.
- Provide expertise in the field repair and completion of upgrades of all Bourgault products within the Bourgault Service Crew.
- Provide support at trade shows, demonstrations, and training seminars
- Provide expertise in the development of training resources for the dealer network and customers.

SKILLS AND KNOWLEDGE:

- The successful applicant must have leadership skills to build and manage the workshop team and coordinate assembly planning to meet retail delivery objectives.
- Detailed product knowledge is required to ensure that maximum quality control in the assembly process is achieved. This includes full operational knowledge of electronic and hydraulic equipment used on Bourgault machines.
- Previous assembly experience is an asset.
- A team player.
- Must have a solid understanding of customer relation concepts along with a strong understanding of current agricultural practices.
- Excellent written and oral communication skills and must be capable of public speaking.
- A post secondary degree or diploma in a mechanically oriented course or equivalent experience in the agriculture machinery industry will be considered an asset.
- Experience in a dealership, service tech or farming role.
- Mature, self-motivated and responsible.

SALARY RANGE: To be negotiated.

REQUIREMENT: MUST BE CAPABLE OF OBTAINING A PASSPORT AND AUSTRALIAN VISA
Contract expectation will be 4 years with possibility of extension or permanent role. Support will be provided for the Visa application process and relocation

CLOSING DATE FOR APPLICATION IS: August 6th, 2017
PLEASE SUBMIT RESUME TO:
Human Resources Department, Attn: Job Posting # 2017-26
Box 39, St. Brieux SK. S0K 3V0

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Box 39, St. Brieux SK. S0K 3V0



Rodeo faces

Determination and concentration were evident during the Nanton Junior Rodeo, held July 15-16 in Nanton, Alta. | **MIKE STURK PHOTOS**



TOP: Mandy Cyr navigates through the poles in the ages 8-10 pole bending event.

ABOVE: Clay McNichol rounds a barrel in the age 11-13 barrels competition.

LEFT: Tynell Schooten ties up loose ends in the ages 11-13 goat tying event.

CENTRE: Erin Moorhead focuses on her mission in the age 8-10 pole bending event.

SOIL SCIENCE

The real dirt on Alberta soil

Glaciers played a huge role in determining the province's soil makeup

BY BARBARA DUCKWORTH
CALGARY BUREAU

LACOMBE, Alta. — Knowing a bit of history may lead to better soil management.

"If you know the kinds of soils you are farming and how they were laid down, it tells you a lot about the characteristics and helps you decide what are the things you need to be worried about," said Ross McKenzie, a retired soil scientist and consultant.

Around 10,000 to 12,000 years ago Alberta was under a 1 1/2 kilometre thick glacier. Lakes and various types of soil and silt deposits were left behind as the glaciers started to melt and pull away.

"Big parts of this province were covered in water in the last time through when the glaciers were here," said agrologist Roger Andreiuk during a soil demonstration at Canolapalooza held in Lacombe June 27.

The result is clay, silt and sand left behind to be reworked by wind and weather.

"In about half of our landscape, the materials have gone through some sort of water sorting," he said.

Central Alberta is mostly fluvial lacustrine soil or black chernozem. In some places the soil horizon reveals ripples left behind at the bottom of an ancient lake. Other parts of the province are covered with the debris that glaciers left behind.

"About half the province that we are farming is glacial till and the other half is mostly fluvial lacustrine," McKenzie said.

"The more you know about your soils, the more you know about how variable or not variable they are," he said.

Glacial till is moderately rolling, hummocky, clay loam plus more salt and rocks.

Fluvial sandy soil is an undulating sandy loam.

Fluvial lacustrine is gently undulating, loam to clay loam.

Lacustrine was once the bottom of a glacial lake. It is clay soil with level topography with few stones.

Armed with this information, producers can make better decisions about the type of fertilizer or other amendments that can be used on the soil as well as understanding what lies beneath the surface.

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STUDYING SOIL HORIZONS

These samples were taken from each of the horizons of soil found in a gravel pit near Crystal Springs, Sask., and show the different soil types that can be found in one location.

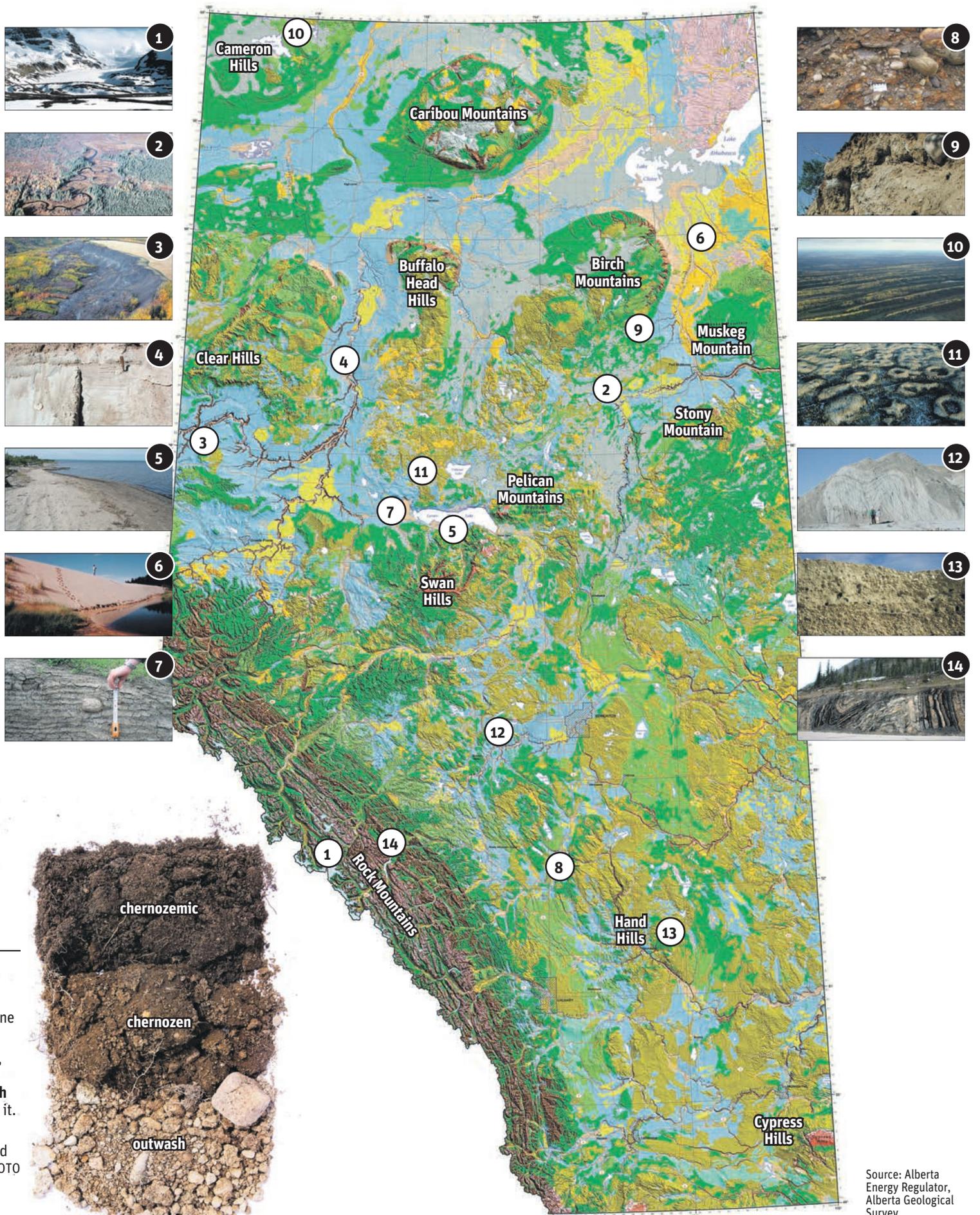
The **chernozemic** surface horizon is black, followed by brown **chernozem** and then a grayish, white coloured gravelled **outwash** soil that has a lot of calcium carbonate in it.

Many soil scientists do this technique to show the contrasting colours, textures and structures of the soil. | WILLIAM DEKAY PHOTO

HOW GLACIERS SHAPED ALBERTA'S LANDSCAPE

This map shows the surface geology of Alberta. Glaciers deposited rocks, sand and other sediment as they swept across the province more than 22,000 years ago and had a lasting impact on the kind of soil that exists today. Here are the basic types of sediment, soil and other deposits across the province:

-  **Modern glaciers:** Permanent snow and ice, includes icefields, valley and cirque glaciers.
-  **Organic deposits:** Woody to fibrous muck occurring in wetlands; includes marshes, swamps and bogs.
-  **Colluvial deposits:** Sediments from slope and slump deposits of valley sides and floors; includes bedrock and surface materials.
-  **Fluvial deposits:** Sediments deposited by streams and rivers; includes sand, gravel, silt, clay, and organic sediments.
-  **Lacustrine deposits:** Sediments in and adjacent to lakes; includes offshore sand, silt, and clay, minor organic deposits.
-  **Eolian deposits:** Wind-deposited sediments comprising sand and minor silt; includes dunes and sand sheets.
-  **Glaciolacustrine deposits:** Sediments deposited in or along the margins of glacial lakes; includes debris released by melting ice in beaches, bars and deltas.
-  **Glaciofluvial deposits:** A wide range of sediments deposited by glacial meltwater on ground, below water and in subglacial environments; may show evidence of melting ice.
-  **Moraine:** Till deposited directly by glacial ice with a mixture of clay, silt, and sand, as well as minor pebbles, cobbles and boulders; characterized by a lack of distinctive topography.
-  **Fluted moraine:** Glacially streamlined sediments, mainly till; varies from alternating furrows and ridges to elongated smoothed hills.
-  **Stagnant ice moraine:** Sediments from the collapse and slumping of debris on or within a glacier caused by the melting of buried stagnant ice at the glacier edge.
-  **Ice-thrust moraine:** Material formed by shifting glaciers that caused the displacement of large blocks or slabs in a more or less intact state.
-  **Preglacial fluvial deposits:** Sediments transported and deposited by streams and rivers prior to glaciation; predominantly quartzite and quartz gravel with minor sand.
-  **Bedrock:** Found in northeastern Alberta (igneous and minor metamorphic rock), the foothills (fragmented rocks including sandstone, siltstone and shale) and in the mountains (fragmented rocks, limestone and dolostone).



Source: Alberta Energy Regulator, Alberta Geological Survey

CANADIAN BARLEY SYMPOSIUM

Experts look to barley's wild side for lost genetics

Modern barley has a narrow genetic base

BY ED WHITE
WINNIPEG BUREAU

Barley is as old as farming itself, and researchers are hoping to confront today's challenges with traits left behind in the mists of the agricultural past.

That might mean going all the way back and re-domesticating the sort of wild barley varieties that the first farmers found around them and saving genetics from farmed varieties that have been abandoned.

"There's so much more than we have in our domestic crop. We just can't get access to it," University of Guelph researcher Duane Falk said during last month's Canadian Barley Symposium in Winnipeg.

"Why don't we just go back and re-domesticate it?"

That doesn't merely mean searching through wild and abandoned barley varieties, finding useful traits and trying to snatch them and insert them into modern varieties.

"Why don't we just go the other way around, and instead of taking a gene out of (wild barley varieties), put a gene (from modern barley into wild barley types.)"



Researchers are looking for traits in wild barley varieties that could enhance modern crops. | FILE PHOTO

Like most crops, barley was created by primitive farmers isolating the best-seeming wild plants and concentrating on the best ones in order to produce better and better seeds.

That has produced spectacularly successful modern crops but has also ignored the thousands of wild varieties that could contain useful traits. It has also left modern crops such as barley with a narrow genetic base.

Falk said wild barley contains ele-

ments of disease resistance, environmental hardiness and other agronomic traits that could help modern farmers.

"There are lots of things going on in barley that could be improved considerably," said Falk.

British researcher Sarah de Vos of the New Heritage Barley Centrum in Norwich said consumer demands are creating a market for barley varieties that contain different characteristics than are generally present in today's lead-

ing varieties.

As a result, her group has been looking at old varieties to see if formerly grown barley could provide valuable traits for contemporary barley.

Beer drinkers and barley food eaters are demanding different types of flavours and want their food to demonstrate certain values, such as ensuring soil health, she said.

Old varieties might contain some of those characteristics, and con-

sumers might be willing to pay for them.

"Consumers can drive the added-value production," de Vos said.

Barley might have been developed as a crop from only one or two plants, which were isolated and grown out. Yet there are a huge number of varieties in the wild, growing all the way from the shores of the Dead Sea to the foothills of the Himalayas.

That range contains agronomic treasures that can only be guessed at, but there is no question that the challenges of climate change could make the crop's ability to find ways to survive in everything from desert to mountains useful in coming years.

Falk said wild varieties are tough to work with because they have seeds that mature at different times, shed independently and don't want to separate from hulls and other surrounding material.

However, within those uncooperative seeds might be answers to some of barley's present conundrums.

"We're accelerating (breeding with wild varieties) by using growth rooms, field selection, winter nurseries, trying to eliminate or at least reduce the bottlenecks of the past so we can recapture a lot of the diversity that's still out there," said Falk.

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AG NOTES

EXCELLENCE AWARD FOR AG STUDENTS

Farm Management Canada and the Canadian Association of Diploma in Agriculture Programs have selected three winners for the 2016-17 Excellence Award for Ag Students Competition.

This year's winners are:

- Shanthanu Krishna Kumar, University of Guelph, Ont.
- Jasmin Bautz, University of Saskatchewan, Saskatoon
- William Lacasse, Institut de Technologie Agroalimentaire, La Pocatiere, Que.

The three will receive scholarships to further their education in agriculture.

The award is designed to help students develop communication skills by having them voice their opinion on a subject related to farm management.

Students were asked to submit a multimedia presentation, a video, a Twitter chat, a blog or a Wiki, responding to the question:

"Certain segments of the general public question the way food is produced, and have misgivings about the use of new technology. What concrete steps would you, as a future member of the agricultural industry, propose to bridge the information and awareness gap?"

The winning videos can be seen at fmc-gac.com.

AG HUMAN RESOURCES COUNCIL CHAIR SELECTED

Mary Robinson of Prince Edward Island is the new chair of the Canadian Agriculture Human Resource Council.

Rounding off the board's

executive are Cyr Couturier of Newfoundland and Labrador as vice-chair, Harold Deenen from Ontario as treasurer; and Connie Keller from Saskatchewan and Paul Glenn of Ontario for two-year terms.

Robinson's family has been farming in Augustine Cove, P.E.I., since 1810 and helps manage Eric C. Robinson Inc. and its subsidiaries, which was recognized in 2014 as one of Prince Edward Island's heritage farms.

She is also a certified crop adviser and manages Island Lime Inc.

Robinson is newly named to the Canadian Federation of Agriculture's board and the Canadian Centre for Food Integrity board. She is also a member of the National Program Advisory Council for Agriculture and is the lead for CFA's work on the Food Policy for Canada.

CANOLA EXHIBIT

An exhibit called "Canola! Seeds of Innovation" opened at the Canada Agriculture and Food Museum in Ontario July 1.

This year marks the 50th anniversary of canola as a crop.

The exhibit tells the story of Canadian plant researchers who created a healthy vegetable oil from rapeseed.

Decades of collaboration and hard work now see canola as a staple in the lifestyle of consumers around the world and a major oilseed crop worth \$26.7 billion annually to Canada's economy.

Visitors can learn the scientific, agricultural, economic and social impact of canola through hands-on displays, games, audio-visual presentations, and a live exhibit highlighting the role of bees in canola pollination.

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graincorp.ca
grainsconnect.com

CARBON STORAGE

Farm creates forests to offset carbon output

The Carbon Farmer plants trees to sequester carbon and offset the environmental impact of 'large smokestack type industries'

BY BARB GLEN
LETHBRIDGE BUREAU

MANNING, Alta. — Products from the Carbon Farmer are less tangible than many farm commodities but they reach a burgeoning market.

The expected commodities from the certified organic grain farm are there, but so are thousands of trees planted on behalf of corporations for carbon credits and for non-regulated commercial needs to offset environmental impacts.

And there are many more trees planted and yet to plant in other regions of Alberta, Canada and internationally that serve the same purpose.

"We are selling carbon credits, we are selling grain and we are selling habitat restoration, and no different from any other product, we price it accordingly so we're getting more than the cost of production," said Brad Rabiey, who operates the business with his wife, Rebecca.

"We are farmers first and foremost but what our products are, these days, are ever changing."

He describes the Carbon Farmer as having three streams: vintage farmer, which supplies organic grains; forest farmer, which plants trees mostly for habitat restoration; and carbon farmer, which offsets the carbon footprints of commercial or individual clients.

The business will store carbon in the name of a commercial enterprise or corporation for as little as \$15 per tonne.

Individuals can buy trees to offset their carbon footprint for as little as \$1.99. Price varies by location and type of project.

"All the trees that we plant and sell on our site have been planted already," said Rabiey. "It's not a promise to plant you a tree in two



Brad Rabiey examines the height of some of the trees planted on the family farm near Manning, Alta., as part of the Carbon Farmer operation. | BARB GLEN PHOTO

years or five years or something like that and we're going to disappear."

The trees exist in the Carbon Farmer inventory and are available for purchase. In that way, buyers support the restoration of a forest.

Though the first forest was planted on the family farm near Manning, which comprises three quarter-sections of deeded land and another two that are rented, the business has also planted trees south of Calgary, other areas of Alberta and some in Ontario and plans the first planting in Saskatchewan this year near Smeaton.

"We only plant on conserved land that has to have some sort of legal caveat ... because we don't want obviously the trees to be chopped in the future," Rabiey said.

Typically, that means planting on land protected under land trusts, conservation associations or municipal reserves and parks.

The business is profitable, he

said, and about 98 percent of the revenue comes from corporate clients seeking to offset their carbon output.

"The business world has been more and more in tune with the environmental impact that they're having and see it as something that they need to do from a corporate social responsibility perspective and we've been able to find a lot of partners over the years.

Arlene Dickinson and Bruce Croxon of *The Dragon's Den* paid \$40,000 for 40 percent of the company

"Most of them reach out to us. We obviously do marketing and reaching out to them as well."

Only tree species native to the area are planted, and different ages of trees are offered to ensure the project is long-lived and meets its mandate of long-term carbon sequestration.

Having the tree plantings spread

across the province and country ensures a single fire won't destroy the inventory.

"There's a few reasons why we've had that corporate uptake," said Rabiey. "Number one, we are planting trees here. There's quite a few organizations that plant trees internationally but the fact that we're literally in some of these corporations' backyards, they can come and plant with us.

"They can see the projects. There's a connection that way, there's a transparency ... that comes with actually being able to visit the projects."

The Rabieys started the Carbon Farmer in 2007, when both were also working other jobs.

They started by planting 4,000 trees on the land once cleared by

Brad's grandparents.

"Literally planting trees where your grandparents had cleared them is a bit of a strange paradox, but at the end of the day, and I think Mom and Dad would agree at this point, is the value of the family farm is in the land and the stewardship of it and every generation I think is going to have a little bit of a different philosophy ... of what is best for the land to make it sustainable for them."

The young business got a boost in 2012 after an appearance on CBC's *Dragon's Den*, when investors Arlene Dickinson and Bruce Croxon paid \$40,000 for 40 percent of the company.

"It was a game changer for us in terms of the credibility that we get," he said. "The value from a mentorship perspective is definitely there."

The two investors remain involved through board meetings and approval of annual business plans and large purchases.

Rabiey was working in the Alberta government's energy ministry when climate change legislation was passed in 2005, which got him thinking about the social licence of the energy industry and the transition of his own third-generation family farm.

It's a bit of irony that the Carbon Farmer, a business designed to address carbon sequestration, faces rising costs because of the NDP government's carbon tax. It isn't structured to help others manage the tax either.

"We pay carbon tax. We're in the same boat as everyone else in that regard," said Rabiey.

"We can't play in that market. We can't help you offset your carbon tax. The offsets that we provide are for what they call large final emitters. That means basically the large smokestack type industries."

barb.glen@producer.com

SUPPLY MANAGEMENT

U.S. lobby pressures Canada on dairy as NAFTA talks loom

OTTAWA/WINNIPEG (Reuters) — The United States dairy lobby is ratcheting up pressure on Canada as talks to renegotiate the North American Free Trade Agreement draw closer.

The U.S. lobby is demanding concessions the Canadian government looks unwilling to grant, according to people familiar with the file.

That could lead to a brawl that sours efforts to modernize NAFTA, under which Canada sends most of its exports to the United States. Mexico is the pact's third member.

U.S. farmers have long chafed about supply management, the term for Canada's system of tariffs and quotas to keep domestic prices high and imports low.

A 2016 deal that allowed Canadian farmers to sell milk proteins to domestic processors at a discount, curbing the flow of American imports, further raised their ire.

Jaime Castaneda, senior vice-

president for the U.S. Dairy Export Council, said the influential lobby group will pursue fresh challenges through the World Trade Organization unless Canada stops the proteins sale.

If we can't resolve this through negotiations, I believe my members will be very clear that everything is on the table.

JAIME CASTANEDA
U.S. DAIRY EXPORT COUNCIL

"If we can't resolve this through negotiations, I believe my members will be very clear that everything is on the table," he said in a phone interview.

A WTO panel ruled in 2002 that Canada breached its trade obligations through illegal subsidies to its dairy industry, siding with the U.S.

A settlement was reached in 2003.

Castaneda said challenges against the protein sales could eventually result in rulings that force Canada to ditch supply management.

In June, U.S. Agriculture Secretary Sonny Perdue said he would prefer to address dairy irritants before NAFTA talks begin and said supply management was fine as long as it did not harm the U.S. industry.

But on July 14 he appeared to toughen his stance, saying through a spokesperson that he felt "all options should be on the table" in the NAFTA talks and that dairy remained a concern.

Although dairy was originally excluded from the original 1994 deal, the United States may push for it to be part of the talks on a new pact.

"I don't see why it wouldn't be, when you're looking at an overall trading relationship ... there is no doubt in my mind that it would be

on the table," said one person familiar with Washington's approach.

Despite the more strident U.S. line, Prime Minister Justin Trudeau's government has shown little interest in compromise.

"We are fully trade compliant and trade in dairy products massively favours the United States," said a Canadian government source.

Canada's dairy sector includes \$6 billion in annual farmer milk sales.

Supply management support

Fearing the domestic industry's lobbying muscle, Canadian politicians of all stripes mostly treat dairy as a sacred cow. In May, dairy farmers helped ensure the defeat of a Conservative party leader candidate who advocated eliminating supply management.

"Dairy farmers are a force to be reckoned with. I think (politicians) will do well to listen to our concerns," said Manitoba dairy farmer David

Wiens, an executive of the influential Dairy Farmers of Canada.

Dairy is one of several commodities, including lumber and wine, that have sparked complaints by U.S. President Donald Trump's administration leading into NAFTA talks.

Trump said in April he would stand up for domestic dairy farmers against what he called unfair Canadian practices.

The American side also wants Canada to start cutting tariffs to allow more imports.

As part of the talks on a proposed 12-nation Pacific trade treaty in 2015, Canada agreed to open up 3.25 percent annually of its dairy supply.

That treaty was stillborn and any talk of concessions is now off the table.

"The industry is not prepared to give any additional access to the Canadian market," said Yves Leduc, head of government relations at Dairy Farmers of Canada.

HEMP INDUSTRY

Hemp growers propose national levy to support research

Some provinces don't have enough acres to finance a provincial organization

BY ROBERT ARNASON
BRANDON BUREAU

Hemp is one of the few crops in Canada that doesn't have a mandatory levy, but that may soon change.

In mid July, a group of hemp growers formally proposed the idea of creating a producer-con-

trolled agency for promotion and research of industrial hemp.

The new agency would collect a levy when hemp is sold. The funds will support research and other activities, with the goal of benefiting producers and the entire hemp industry.

"Right now we don't have an offi-



A survey will be sent to hemp growers across Canada to gauge support for a producer controlled organization and checkoff. | FILE PHOTO

cial checkoff," said Nathan Nieboer, of Quattro Ventures, a group of family farms based in Bow Island and Burdett, Alta. "There is a voluntary checkoff that gets done through some (hemp) processors. (But) it's not a stable source of funding to push the industry forward."

Nieboer and others want to know if hemp growers support a checkoff and a producer-controlled organization.

Producers that applied for a Health Canada licence to grow industrial hemp over the past three years will receive a survey. Growers can also go to www.hemptrade.ca and complete the survey.

Typically, grower associations or commissions that collect levies are provincial bodies. But the leaders of the new hemp agency have different plans.

"Hemp is currently produced in nine provinces across Canada, so

Combined, we have enough acres, but to run a provincial organization would be very challenging. The provinces have to get on side ... to realize this makes sense.

NATHAN NIEBOER
QUATTRO VENTURES

we feel a national agency is the best approach for producers across Canada to invest in and grow their industry," said Don Dewar, who farms near Dauphin, Man.

In a typical year, about 700 farmers receive a Health Canada licence to grow industry hemp and this spring an estimated 130,000 to 150,000 acres of hemp were seeded in Canada.

But in some provinces the num-

ber of growers is tiny. Therefore a provincial hemp association in Ontario, for example, doesn't make financial sense.

"Combined, we have enough acres, but to run a provincial organization, would be very challenging," Nieboer said. "The provinces have to get on side ... to realize this makes sense."

Canada's hemp industry already has a national organization, the Canadian Hemp Trade Alliance. Its members include hemp processors, manufacturers, researchers, marketers and farmers. The CHTA, on its website, says its key functions are to "disseminate information, promote the use of nutritional and industrial hemp and co-ordinate research."

Nieboer said the proposed promotion and research agency, controlled by producers, would work with the CHTA and support its activities.

But the main purpose of the proposed organization is to collect the levy and control spending of the check-off fund.

"I think the promotion and research agency would potentially fund initiatives that are done by the CHTA," Nieboer said. "As well, if there is research and other funding that can be done, that producer board on the promotion and research agency (will) decide where those funds go."

Nieboer and other producers supporting the hemp levy will study the results of the survey. If there is sufficient support for a checkoff, this fall they will submit an application to the Farm Products Council of Canada, which oversees national promotion and research agencies for farm products.

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Byron Hamm, PAg
Assistant Manager, National Level
Certification Manager, Western Region
Pro-Cert Organic Systems Ltd.
Saskatoon, SK

As an Assistant Manager, Byron represents Pro-Cert to their accreditors and to the organic industry at the National Level. As a Certification Manager, he is responsible for oversight of Pro-Cert's Certification Programs including Organic, Gluten-Free and Grass Fed across Western Canada.

"The professional agrologist (PAg) designation represents a level of quality and a Code of Ethics that our clients not only expect but also deserve."

Byron was born and raised in Saskatoon, SK as well as the family grain farm located just outside of the city, which has now been converted and certified as organic. He received a BSc in Agriculture with a major in Agronomy from the University of Saskatchewan. Byron has spent his entire career in the organic certification industry.



Michelle Keck, AT
Sales Agronomist
Innova Ag Solutions Inc.
Central Butte, SK

Michelle supports producers by providing advice, products and services to them to ensure their operations excel each year. She works closely with her team in the spring and summer months to offer farmers field services to monitor all agronomy-based needs.

"Being registered as an Agricultural Technologist (AT) ensures my advice and knowledge I provide is accountable and current as I continue to further my career."

Michelle was born in Outlook, SK, grew up in Assiniboia, SK and now owns and operates a cattle farm, along with her husband, near Gravelbourg, SK. She has a Diploma in Crop Technology from Lakeland College in Vermillion, AB. Michelle previously worked for Viterra, UFA Co-operative, Patterson Grain, and Richardson Pioneer.

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CARBON DIOXIDE LEVELS

Rate of climate change 'unprecedented'

BY BARB GLEN
LETHBRIDGE BUREAU

BIG SKY, Mont. — People who are skeptical about climate change don't particularly bother James Hurrell, director of the National Center for Atmospheric Research based in Boulder, Colorado.

He's been doing climate research for 25 years and he's heard most of what researchers and the public have to say on the topic.

"It doesn't drive me nuts at all," he said during a break at the International Bison Conference July 5.

"I think it's really a communication issue and I think the scientific community needs to do a better job communicating what we know and what we don't know about the problem. It's a very complex topic and it can be a very confusing topic."

Part of the confusion lies in the distinction between climate and weather, he said.

People know the difficulty of getting an accurate weather forecast so it logically follows that it is equally difficult, and potentially inaccurate, to predict climate for years, decades and centuries into the future.

Dannele Peck, director of the USDA's northern plains climate hub, compares the difference between weather and climate to the difference between what a person is wearing today compared to the entire wardrobe they've ever

owned. One is immediate and evident and the other reflects the past use plus future needs and possibilities.

That said, Hurrell said during his speech to bison producers that although climate is always changing, the current rate is "beyond the realm of natural variability."

"The rate of change ... that we are experiencing is unprecedented and it's due to the human influence, the burning of fossil fuels and deforestation, primarily."



JAMES HURRELL
NATIONAL CENTRE FOR ATMOSPHERIC
RESEARCH

Researchers and scientists have been monitoring and commenting upon rising atmospheric carbon dioxide levels since at least 1896, said Hurrell.

Now CO2 concentrations are at their highest in 800,000 years. Until about 18,000 years ago, at the end of the last ice age, CO2 concentrations never exceeded 290 parts per million.

Today, they are over 400 p.p.m.

and are projected to be 900 p.p.m. by 2100 if things continue on the current trajectory.

"Assuming business as usual," said Hurrell, the United States will be 2.75 C to 5.5 C warmer by the end of this century.

That will cause higher sea levels and affect millions of people. As one example of other consequences, Hurrell said 14 of the U.S.'s largest airports would be directly impacted by the rise in water level.

The biggest impacts will be felt through extreme weather events, he added. Floods will be larger and droughts longer lasting.

Taking action to reduce CO2 emissions and levels can limit the amount of warming but it might not be apparent in our lifetimes. Hurrell said even with mitigation measures enacted now, average temperatures will continue to rise because the oceans take a long time to cool.

"It's going to take many years to undo what we've already done. Carbon dioxide has a very long lifetime in the atmosphere. I think the key point is that the trajectory that we're on, if we do nothing about that, we're really going to be experiencing rates of change that the planet has never experienced."

"By doing what we can, even as individuals, to limit the emissions ... we can still avoid the most dire consequences of all of this."

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COLONY LOSSES

Bee controversy helpful, says U.S. honey official

Colony losses are rising and pesticide overuse is said to be part of the problem

BY ROBERT ARNASON

BRANDON BUREAU

It's become difficult to keep track of all the controversies involving bees and agricultural chemicals.

Some scientists say neonicotinoids, a class of insecticides, are poisoning bees.

Other researchers say fungicides are a threat to bees and last November two U.S. environmental groups filed a lawsuit against Sue Bee Honey, a co-operative in Sioux City, Iowa, over glyphosate residue in honey.

Chris Hiatt, American Honey Producers Association vice-president, said the hullabaloo is warranted.

"We (are) experiencing 40 percent national losses, every year, of the bee population," said Hiatt, who is from Bowman, North Dakota, in the southwest corner of the state.

"Pesticides, it is part of the issue. It is. We just can't deny it.... If takes suing somebody, it might change something."

For the last decade or so, American beekeepers have suffered through higher than usual rates of colony losses. In 2014-15 the annual colony losses across the United States, in winter and summer, was around 42 percent.

Most beekeepers and entomologists say a combination of factors is responsible, including habitat loss, varroa mites (a parasite that



FILE PHOTO

invades hives) and diseases spread by the mites.

Hiatt agreed that pesticides are only part of the story, but the overuse of agricultural chemicals is affecting beekeepers and the honey industry.

Glyphosate, the active ingredient in Roundup and the most popular herbicide in the world, hasn't been linked to effects on bee health. But its impact on honey popped up last fall when Beyond Pesticides and the Organic Consumers Association filed a lawsuit against the Sioux Honey Association, the owner of Sue Bee Honey.

U.S. Food and Drug Administration testing found residues of

glyphosate in bottles of Sue Bee Honey at levels as high as 41 parts per billion, the lawsuit stated.

Since the honey contains traces of the herbicide, the "Natural" and "100 percent" pure labels on Sue Bee Honey are deceptive and misleading, the plaintiffs said.

Paul Gregory, a beekeeper from Fisher Branch, Man., said earlier this year that glyphosate and the lawsuit were hot topics at the 2017 North American Beekeeping conference in Texas.

"Something like 80 percent of American honey tested had levels of glyphosate."

Hiatt said the lawsuit against Sue Bee Honey is absurd because the

U.S. government hasn't established a maximum residue level (MRL) for glyphosate in honey.

Lacking an MRL, it's impossible to say what level is acceptable or safe.

Nonetheless, he is concerned about the overuse of glyphosate in crop production.

"The Roundup (issue), it's going to come to a head eventually because it's been used prophylactically for so many years and it's showing up everywhere," he said.

"The bees are flying in the environment and picking it up... and bringing it back to the hive.... It (glyphosate residue) is an issue for us, but I don't know what we can do

(about it)."

Hiatt said glyphosate applied in the spring and summer on Roundup Ready crops, like canola, corn and soybeans, is the most likely source of contamination.

But spraying cereal crops before harvest to aid dry down is also concerning.

"You can't get away from it," he said. "There is probably alfalfa and clover blooming right next to the (crop), so they are going to pick it up."

Hiatt said the overuse of pesticides is particularly bad on soybeans.

Environmental Protection Agency and Health Canada research has shown that neonicotinoid seed treatments provide almost no economic benefits for growers because the yield gains are insignificant.

Many U.S. soybean growers continue to use the products despite the findings, Hiatt said.

"This prophylactic use, it's an insurance, just like crop insurance," he said. "We've got to stop and get away from that."

On the positive side, there have been cases where controversies around bees and agchemicals have actually changed practices, he added.

Research has shown that certain fungicides, used to protect almond trees, can be detrimental to bees.

The Almond Board of California developed best management practices to reduce the risk to pollinators, such as spraying the fungicide in the evening and avoiding times of peak bee foraging.

"It has made a difference," Hiatt said. "There has been less bee kills."

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OPPOSITION CAMPAIGN

Manitoba businesses, farm group form anti-carbon tax coalition

BY ROBERT ARNASON

BRANDON BUREAU

A coalition of like-minded groups wants Manitoba Premier Brian Pallister to act more like Brad Wall.

They are asking Pallister to take a position similar to the premier of Saskatchewan and vigorously fight the entire concept of a carbon tax.

"The majority of Manitoba's small business owners oppose carbon taxes and cannot afford a policy that will increase their costs and make them less competitive with their U.S. neighbours," said Jonathan Alward, Canadian Federation of Independent Business director for Manitoba.

On July 13, the CFIB, the Canadian Taxpayers Federation (CTF), the Western Canadian Wheat Growers Association (WCWGA) and AxeTheCarbonTax.ca collectively formed the Manitobans Against Carbon Taxes Coalition.

The coalition, as the name suggests, wants to stop the implementation of a provincial or federal carbon tax in Manitoba.

In a news release unveiling the coalition, the groups announced a joint advertising campaign against

carbon taxes.

One of the coalition members is Gunter Jochum, who farms near St. Francois Xavier.

"A carbon tax, whether direct or indirect, would drive up costs for farmers and hurt the entire agriculture sector, from the field right to the kitchen table," said Jochum, Manitoba director for the WCWGA.

Provincial plan coming

Pallister is expected to unveil a Made in Manitoba solution to climate change, possibly in late summer or early fall. Manitoba has to devise a plan before the end of 2017 because Prime Minister Justin Trudeau has promised to impose a base price of \$10 per tonne for carbon on provinces that don't have a carbon reduction scheme by 2018. The price could rise to \$50 a tonne by 2020.

Carbon taxes are a thorny issue for agriculture groups in Manitoba because many farmers resent such a tax or think it's ridiculous.

Some want agricultural leaders to take a militant position and outright oppose the tax, similar to the Agricultural Producers Associa-

tion of Saskatchewan.

Keystone Agricultural Producers says farmers should be exempt from the tax and producers should be credited for practices that remove carbon from the atmosphere.

However, to some farmers that sounds too much like acceptance of a carbon tax.

"Divisive," said Dan Mazier, KAP president, describing the tone of the carbon tax debate.

"It seems lately ... to be for or against. There's no room for discussion."

Dwight Eisner, who farms near Bowsman, Man., would prefer if KAP rejected the carbon tax and lobbied against it.

He said Pallister and Wall should join forces and develop a similar position on carbon taxes.

"I personally would like to see him (Pallister) get together with Mr. Wall and talk about... 'united we stand, divided we fall.'"

On top of fighting any "Made in Manitoba" plan, the Manitobans Against Carbon Taxes Coalition is asking for a provincial referendum on the matter.

While in opposition, Pallister railed against Manitoba's NDP gov-

ernment for raising the provincial sales tax and not holding a referendum on the increase.

"Premier Pallister promised to hold a referendum on any major tax, and a carbon tax is obviously a major tax — imposing a carbon tax without a vote would be a huge broken promise," said Todd MacKay, CTF prairie director

Mazier isn't sure about a referen-

dum, but waiting for the province to announce its policy has become tiresome.

"We don't even know what (the government) is thinking right now and that's very much part of our frustration," he said.

"We'll be able to react to the actual policy when it comes out."

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CROP REPORT

ALL CONDITIONS AS OF JULY 21. VISIT WWW.PRODUCER.COM REGULARLY FOR UPDATED CROP REPORTS

MANITOBA

SOUTHWEST

- Sunny, warmer weather is benefiting most crops, especially soybeans, corn and sunflowers.
- The heat accumulation, or growing degree days, from May 1 to the middle of July was about normal for the region. However, rainfall amounts were 55 to 75 percent of normal.
- There have been reports of geese causing damage in soybean crops. More typical pest pressure is low.

NORTHWEST

- Soil moisture varies, from dry in Roblin to excessively wet in fields near Dauphin.
- Soybeans are flowering, and canola is in late bloom stage or podding.

- Haying is moving along nicely in the western half of the region, but rain is needed to spur forage growth.

CENTRAL

- Most of the region received rain in mid-July, but more precipitation is needed for pod and head fill.
- Corn is advancing, but certain fields are struggling because of cool and dry conditions in June.
- Fall rye is drying down, and harvest will begin shortly.

EASTERN

- Growing degree days as of the middle of July were just below normal. Rainfall was 70 to 90 percent of normal.

- Soil moisture conditions were rated as 90 percent adequate.

- Soybeans are progressing, but iron deficiency chlorosis hit some fields hard in June. Patches in those fields have not recovered and contain dead plants.

INTERLAKE

- Crop heat units range from 90 to 100 percent of normal. Rainfall was 70 to 90 percent of normal as of mid-July.
- Spring cereals are headed out. Disease pressure is low in cereals and insect damage is marginal.

- Haying is progressing at a normal rate, and pasture growth is satisfactory.

SASKATCHEWAN

SOUTHEAST

- Lack of moisture and high temperatures continue to stress crops. Topsoil moisture was rated as 27 percent adequate and 43 percent short.

- About 60 percent of spring cereals, oilseeds and pulse crops are at normal development stage. The remainder is split with about 20 percent behind and 20 percent ahead of normal.

- Much of the canola crop has sustained damage from heat blast.

SOUTHWEST

- Crop topsoil moisture has deteriorated through most of July. Rated at 38 percent short and 52 percent very short.



Heavy rain in the Deerwood, Man., area flattened what had been a nice-looking crop in mid-July. | JEANNETTE GREAVES PHOTO

- Lack of moisture and heat will cut crop yields.

- Hay yields are below average, and there may not be a second cut because of poor regrowth.

EAST-CENTRAL

- Sixty to 80 percent of the crop is at normal development, and 15 to 30 percent is behind normal.
- Crop topsoil is rated at 38 percent adequate, 46 percent short and 15 percent very short.
- Dry conditions will slash yields, particularly on canola that bloomed in hot weather.

WEST-CENTRAL

- Heat and lack of topsoil moisture remains the main concern in the region.
- High temperatures have dam-

- aged flowering crops, including canola.

- Hay yields are lower than average. Quality is 21 percent excellent and 50 percent good.

NORTHEAST

- The region has better topsoil moisture than other parts of the province, but rain is needed for pod and head fill.
- Fifty to 55 percent of spring cereals, oilseeds and pulse crops are behind normal development.
- Hay yields are rated as average.

NORTHWEST

- Topsoil moisture in cropland varies: 15 percent surplus, 50 percent adequate and 33 percent short.
- Haying is progressing with yields reported as average.
- Hail is reported in parts of the region, causing extensive damage in some fields.

ALBERTA

SOUTH

- Forty-five percent of crops are rated good to excellent, thanks to hot and dry weather, which is well below the five year average of 70 percent.

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- Canola is in the worst shape, rated as 43 percent good to excellent.

- Soil moisture continues to drop. Surface moisture is now rated as 26 percent good to excellent.

CENTRAL

- About 70 percent of all crops are rated good to excellent condition, which is below last year but above the five year average.
- Dry peas are doing particularly well with 76 percent rated good to excellent.
- Pasture and tame hay conditions are worsening because of hot and dry weather.

NORTHEAST

- Pasture and hay conditions are the best in the province with nearly 95 percent rated good to excellent.
- Crop ratings are the highest in Alberta: 82 percent of all crops were rated good to excellent.
- Thunderstorms boosted surface and subsurface soil moisture. Most fields rated excellent to excessive.

NORTHWEST

- Warm weather is needed to push crop development.
- Pasture and tame hay crops look very good.
- Crops are rated at 58 percent good to excellent, well behind last year at this time.

PEACE RIVER

- The region received needed precipitation. All crops, except canola, are rated above the five year average.
- Pastures and tame hay crops look good.

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50 YEARS AGO

Pastures wither in heat; Ottawa helps secure hay

FROM THE ARCHIVES



BRUCE DYCK

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

75 YEARS AGO: JULY 23, 1942

The prairie wheat pools said they were prepared to reduce their handling charges for "street wheat" delivered to the Canadian Wheat Board by half a cent per bushel for 1942-43.

The Saskatchewan section of the Co-operative Commonwealth Federation (CCF) named a new leader as the party prepared for an anticipated early provincial election. His name? Tommy Douglas, a CCF member of Parliament from Weyburn.

50 YEARS AGO: JULY 27, 1967

Saskatchewan's wheat crop continued to deteriorate in the hot, dry weather, and the provincial gov-



Don Meredith of Alberta Fish and Wildlife showed Darrol Hurley, 14, of Beaverlodge, Alta., Lisa Lieverse, 15, of Beaverlodge and Wade Martin, 14, of Granite County, Montana, how teeth can be used to estimate the age of a grizzly bear skull during the Alberta 4-H Conservation Camp at Silver Creek Ranch in July 1983. | FILE PHOTO

ernment announced it would pay half the costs of emergency assistance to help producers transport hay and haying equipment to where it was needed.

Fertilizer use by prairie farmers increased to 214,711 tons in 1966 from 18,000 tons 10 years earlier. A 30 percent increase was expected for 1967.

25 YEARS AGO: JULY 23, 1992

Determined to improve labour relations in the grain industry, federal Labour Minister Marcel

Danis met with employers, unions and other officials in Thunder Bay, Winnipeg, Regina, Calgary and Vancouver. An industry-wide forum was also anticipated for August.

The federal government had stepped in three times in 1991 to end strikes and lockouts that had shut down parts of the grain export system.

Only one-third of the farmers who had mistakenly received payments from the Western Grain Stabilization Administration had paid back the overpayments by the July 15 due date.

Those who had paid up tended to be the ones who owed the least amount of money.

10 YEARS AGO: JULY 26, 2007

A heat wave in Alberta was expected to reduce a promising crop to less than average. Ranchers reported that the Pincher Creek area had received three millimetres of rain in the previous six weeks.

Cereal leaf beetles had been found in southern Alberta. The pest, which was new to the Prairies, targeted oats and was said to reduce yields by 55 percent in that crop and 25 percent in wheat and barley.

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AG IN MOTION

AIM crop plots offer show and tell

Growers had the opportunity to grill breeders and dealers on new canola, soybean and wheat varieties

BY MICHAEL RAINE
SASKATOON NEWSROOM

LANGHAM, Sask. — Seed was a hot item for farmers attending last week's Ag in Motion farm show near Langham.

With more than 100 acres of breeder, input and dealer plots, the show gave producers a lot of choices to consider, and their interests pointed to some industry trends.

Al VanCaesele of Brett Young said plots at the show site allowed growers to get a good look at the varieties and hybrids that they will be seeing next year and a few years from now.

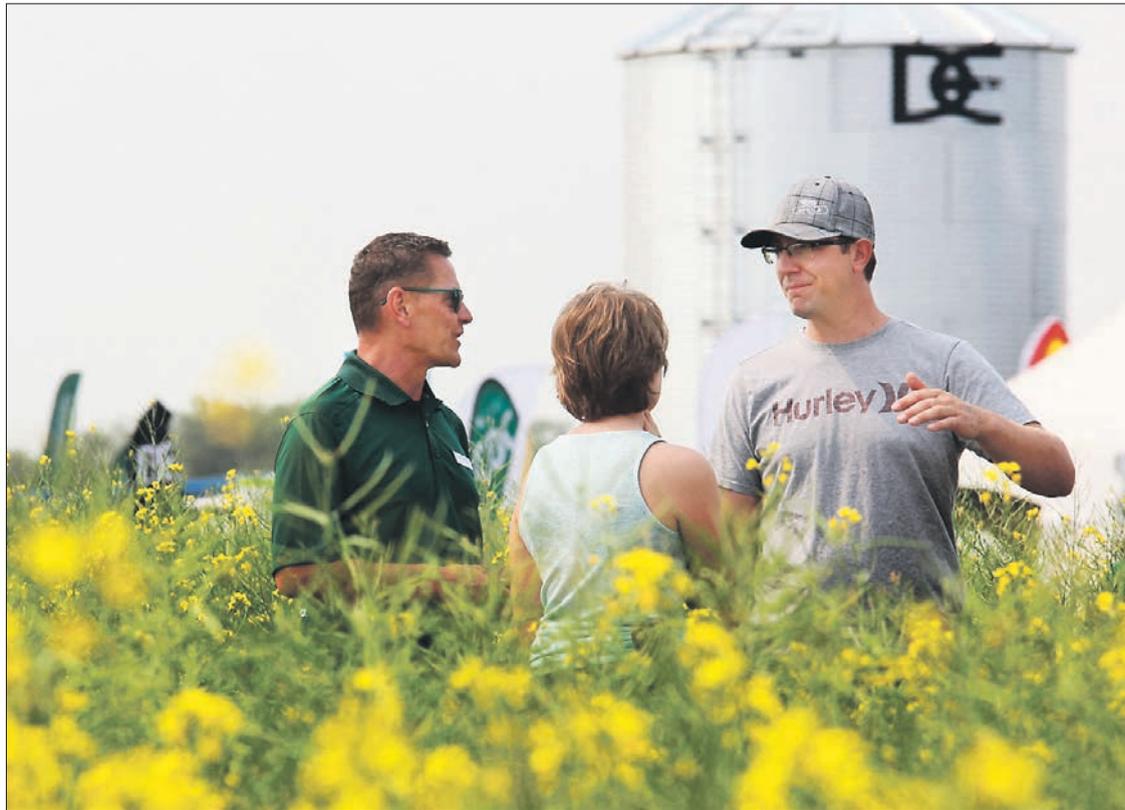
"Farmers are asking a lot about where Elite's breeding program is headed with shorter season soybeans and what our canolas are going to look like in the near future," he said.

For that company, the new tolerance for blackleg races is now "table stakes" and has to be genetically packaged with improved standability and clubroot resistance, said VanCaesele.

Soybeans garnered a lot of attention at the event: plots with that crop were as common as wheat and canola.

"We are getting a lot of attention with the 000 (rated) varieties," he said about three experimental plots the company had along side two of its current ones: Arkas, a 2,375 heat unit variety, and Notus, a 2,300 variety.

"Arkas has very good pod height,"



Al VanCaesele, left, of Brett Young discusses crop genetics with farmers in that company's Ag In Motion farm show plots. More than 100 acres of the event's 320 acres of show site are covered with crop plots.

| MICHAEL RAINE PHOTO

he said. "Growers have been asking for that as they start trying soybeans on their farms for the first times."

While growers asked a lot questions about canola and beans, it might have been wheat that stole the show.

That's because wheat is back, again. The once king of prairie crops had seen its title eroded in recent years as canola and pulse crops became the profit rotations of choice and fungal infections and herbicide resistance grew.

With prices touching on \$10 per

bushel, producers attending AIM were looking for more opportunities with the cereal and found them.

Rod Merryweather of FP Genetics said his company had "our seven or eight people busy non-stop all three days.... A lot of it was around wheat and what is coming."

Fusarium head blight is on every producer's mind in Western Canada, and spring varieties with improved resistance to that disease and orange wheat blossom midge received a lot of attention.

He said FP's CDC Landmark VB is the first semi-dwarf Canadian Western Red Spring variety with midge tolerance, good standability, high test weight and protein content. It also has an intermediate rating for fusarium and a semi-solid stem for improved sawfly tolerance.

"And it out-yields Carberry (the check) by more than 10 percent (in Saskatchewan trials)," he said.

"Landmark is getting the most notice from producers at the show, for us.... Shorter is a trend, especially hearing that from the Alberta farmers."

FP's AAC Viewfield, like Landmark, is a semi-dwarf and appears on the market for next spring. It has yielded more than 115 percent of Carberry in Alberta.

Todd Hyra of seed company Secan confirmed that wheat is the new black.

"Improved prices and need for some rotations that pay are putting it back out-front."

He said producers showed a lot interest in Secan's BW1025, still not registered, a CWRS with 111 percent of Carberry's yield that is midge tolerant and moderate-to-resistant of fusarium head blight.

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AG IN MOTION

Cement truck has tender spot for seed, fertilizer

A new trend in tendering trucks has been launched by HaulAll Industries, based in Rosenort, Man.

BY RON LYSENG
WINNIPEG BUREAU

LANGHAM, Sask. — The biggest bottleneck at seeding time is an idle empty air cart. Keeping that million-dollar rig employed putting seed and fertilizer in the ground is a giant challenge.

HaulAll Industries had two solutions on display at last week's Ag in Motion show.

Both machines are relatively low-cost tender machines, according to the company's new owner, Brent Friesen.

The side draw drill fill trailer had been in limited production before Friesen bought the company, but it had not been widely promoted. He said the logistics of the side draw system make it a logical solution for growers who want to save time at seeding.



A retired cement truck makes an ideal platform for a heavy duty tendering rig. | RON LYSENG PHOTO

"It's definitely unique to the market. You simply drop your chute, open your gates and product flows directly into the auger for your air cart or conveyor," he said.

"It's a simple way to fill, and there

are no crazy assemblies of all kinds of extra parts. So that means it's more affordable, reliable and lighter. We can install electric gates if that's what the customer wants, but there's nobody else I know of

who makes a side drop trailer."

Friesen said the trailers can handle up to 1,200 bushels on a tridem trailer

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They work with either new or used trailers.

HaulAll prefers not to put the grain hoppers on flat deck trailers because the wide chassis interferes with the side drop chutes.

“It’s very important we get our geometry and our angles correct so we get the maximum flow,” he said.

“The wide flat deck chassis makes that difficult.”

Friesen said the three big compartments turn the machine into a grain hauler at harvest time. Prices on a side draw mounted on a rebuilt trailer chassis start at \$40,000 for a 1,200 bushel tender on a rebuilt chassis.

Options add up with a brand new chassis, electric gates and electric tarp.

Super Seed Tender

The HaulAll unit attracting the most attention was the recycled cement truck converted into a 600-bushel tender truck, dubbed the Super Seeder Tender.

Like the Side Draw Drill Fill, the Super Seed Tender lets the customer decide the capacity for each compartment to fit the specific farm operation.



BRENT FRIESEN
HAULALL

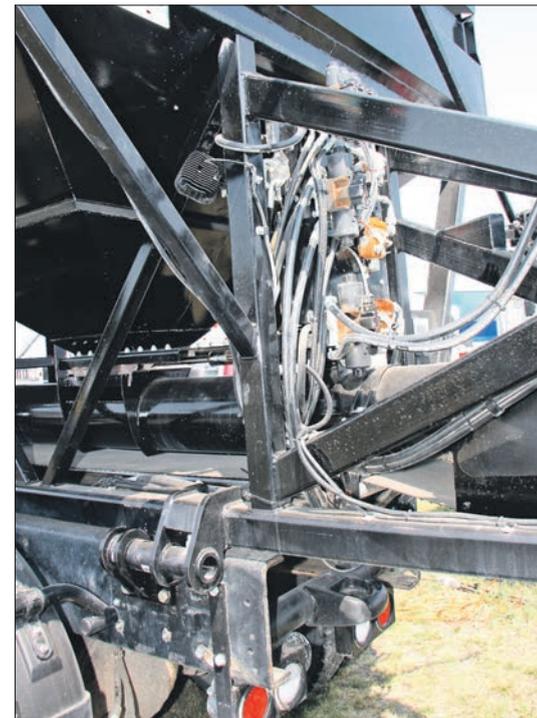
“It has a 10 inch belly conveyor that dumps into an inclined conveyor,” Friesen said.

“We already have four or five of these out working in the field. You can mount them to a trailer, a tandem or something big like a cement truck with twin front axles.

“We can go 1,200 bu. on a trailer or start at 500 bu. on a tandem truck. The converted cement truck we have here on-site is 600 bu. It’s not going to feed a big Seed Master or something like that. I think 600 is the max you can go on a truck chassis.”

Friesen said producers considering a similar setup should first calculate the weight of the aluminum box they’re removing.

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LEFT TOP: Brent Friesen says the basic Super Seed Tender can be mounted on a trailer or a truck chassis. The upper limit is 600 bushels when installed on a truck.

LEFT: Tire air pressure can be lowered for field use and boosted for the road.

ABOVE: Systems for the tender unit are easy to access at the back of the rig. | RON LYSSENG PHOTOS

AG IN MOTION

Forage equipment dealer gauges prairie interest

SiloKing gathers, grinds and mills all types of forage

BY RON LYSSENG
WINNIPEG BUREAU

LANGHAM, Sask. — Efficiency in forage equipment translates to better margins for beef and dairy producers, which was the driving factor in designing the SiloKing self-propelled forage mixer-handler.

The German-built machine made its western Canadian debut last week at the third annual Ag In Motion show near Langham.

Karl Terpstra of SiloKing Canada, who brought the model 2519 500+ from his dealership in Putnam, Ont., said there’s a growing demand in the forage industry for self-propelled equipment that can gather, grind, mill and deliver all types of forages.

He said 45 of the self-propelled handlers have been sold in Quebec since 2009, five more were recently delivered to producers in Ontario and the company now wants to expand into the Prairies.



KARL TERPSTRA
SILOKING CANADA

Terpstra conceded that the SiloKing concept is similar to that of the Supreme forage handler, an Italian machine with final assembly in Alberta.

“We start the process with a big facer on the front. You drive straight into the piles of feed. It leaves a nice

smooth face,” said Terpstra.

“It brings the feed up into the vertical mixer. It can also take bales and commodities of any kind and windrows on the surface. This machine has two vertical mixers, it’s a 25 cubic metre machine. We go from 12 cubic metres up to 32 cubic metres.

We also have a triple auger machine. That’s a little different from what we’re used to seeing in Canada.

KARL TERPSTRA
SILOKING CANADA

“We also have a triple auger machine. That’s a little different from what we’re used to seeing in Canada. There’s advantages over a big twin. It’s easier to run. There’s a lot less pressure on the bottom of the augers.”

Power for all 500 series machines is from Volvo diesels, ranging from 140 to 300 horsepower on the bigger machines.

The machines are hydraulic front-wheel drive with the engine located directly over the drive wheels. All-wheel drive is available as an option.

Terpstra said it makes sense to situate the power plant and hydraulic pump at the front of the unit because the front is where most of the hydraulic motors and cylinders are located.

Prices range from \$225,000 to \$475,000, depending on the model and options.

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Horsepower on the SiloKing self-propelled forage mixers range from 140 to 300. | RON LYSSENG PHOTOS



Beef and dairy producers are catching on to the efficiencies of self-propelled forage handlers, which can gather, grind, mill and deliver all types of forages.

SOYBEAN AGRONOMICS

Soybean row spacing critical in extending weed free period

Researchers are also studying whether different varieties reduce weed pressure

BY ROBERT ARNASON

BRANDON BUREAU

PORTAGE LA PRAIRIE, Man. — Standing under a white tent with soybean plots behind him, Jonathan Rosset had a question for his audience of growers and agronomists.

Does anyone in the crowd plant soybeans in wide rows? That is, 20 inches or wider?

"I've kind of got some bad news for you guys," said Rosset, who spoke at SMART, a Manitoba Pulse & Soybean Growers agronomy day for soybeans held July 19 at the Canada-Manitoba Crop Diversification Centre in Portage la Prairie. "Those wide rows of soybeans really lengthened that critical weed free period.... You had to keep your crop weed free for much, much longer."

Rosset, a University of Manitoba masters student in plant science, is studying the critical weed free period for soybeans grown in Western Canada.

The critical weed free period is the length of time that weeds must be controlled to maximize crop yield.

"(It's) the time in thermal time, growing degree days or corn heat units that you need to keep a crop weed free," said Rosset, who is conducting plot trials in Manitoba looking at agronomic choices that lengthen or shorten the critical weed free period.

Weed pressure can substantially cut into yield if producers don't keep soybeans clean during that time.

"If you have a very heavy and thick weed community ... you

might look at an 80 percent yield reduction. That's what we saw in Carman last year," said Rosset, who cautioned that there is only one year of data so far and full results won't likely be published until 2019.

At other locations, plots with no weed control suffered yield losses of 10 to 40 percent.

Weed scientists and agronomists in Ontario have studied the critical weed free period for soybeans in that region, but little work has been done in Western Canada.

One variety that could be very competitive (with weeds) in one area, it ends up being not competitive in another area.

JONATHAN ROSSET
PLANT SCIENCE STUDENT

"We need to fine tune whatever (recommendations) we get from elsewhere and learn what works and what doesn't work," said Rob Gulden, a U of M weed science professor who is collaborating with Rosset on the research.

The first year of results, from 2016, showed that row spacing definitely affects the critical weed free period in Manitoba.

Soybean plots with 7 1/2 inch rows had to be kept weed free until the V4 development stage.

"On your wide row spacings, your 30 inch row spacings, you had to keep them weed free past the R1 stage," he said. "The difference is almost 100 growing degree days."

Rosset cautioned the data is only

one year of research, but so far it seems as if a 15-inch row is the tipping point.

"Anything past that 15 inch row spacing, now you're getting into wider rows ... and there is a lot more space for sunlight, nutrients and water to be taken up by weeds," he said.

Gulden said row spacing might be more important in Western Canada because the growing season is so short.

"The further north you move the more important that (rapid) row closure is because we don't have the (longer) season for compensation."

Rosset and Gulden are also comparing soybean varieties to see if that affects the critical weed free period.

Varieties can differ in height, leaf size and bushiness, and those differences can make the crop more competitive with weeds, depending on if conditions are wet, dry or cold in the spring.

"It actually makes a difference, and (the differences) are regionally specific," Rosset said.

"One variety that could be very competitive (with weeds) in one area, it ends up being not competitive in another area."

In some cases, a different variety extended the critical weed free period to the V4 stage.

"Almost a full development stage longer (compared to) the other two varieties."

Rosset also presented data on seeding rates and stand density and how they effect weed control.

The recommended soybean density in Manitoba is 180,000 to 210,000 plants per acre. In his plots,



Soybeans need clean rows, even in Canadian production. | FILE PHOTO

Rosset looked at extremes of 270,000 plants per acre and 135,000 per acre.

The plots with the highest concentration of plots shortened the critical weed free period, but few producers are going to target 270,000 plants per acre because the seed cost would be exorbitant.

Rosset needs to generate more data before he can provide comprehensive results to growers.

For now, it's clear to Gulden that western Canadian growers need to think differently about soybeans when it comes to weed control.

The traditional prairie crops, such as wheat, canola and oats, are more competitive with weeds early in the growing season, so producers don't need to lose sleep about weed pressure in May and June.

But soybeans are not competitive.

"The guys in Saskatchewan learned that with all their pulse crops," Gulden said. "Early season weed control is very critical."

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VOLUNTEER CANOLA IN SOYBEANS

Of all the weeds that can steal sunlight, nutrients and water from soybean plants, volunteer canola is the most visible in Manitoba. Rob Gulden, a University of Manitoba weed scientist, has studied volunteer canola and has identified weed densities that cause five percent yield loss in soybeans:

Volunteer canola (plants per sq. metre):

Year	Site	7.5" rows	30" rows
2012	Kelburn	5.9	4.1
	Melita	2.6	1.1
2013	Kelburn	5.7	2.5
	Carman	6.0	12.4
2015	Carman	1.4	2.2
	Portage	3.5	2.9
Average:		3.2	2.5

WEED OF THE WEEK: SALT CEDAR

BY MICHAEL RAINE

SASKATOON NEWSROOM

My great aunt farmed for her whole career. She used to say, "a sharp hoe is as good as a rain any day."

And there are weeds where no registered chemistry is available or that can be applied in riparian areas, so manual removal is one of the only options.

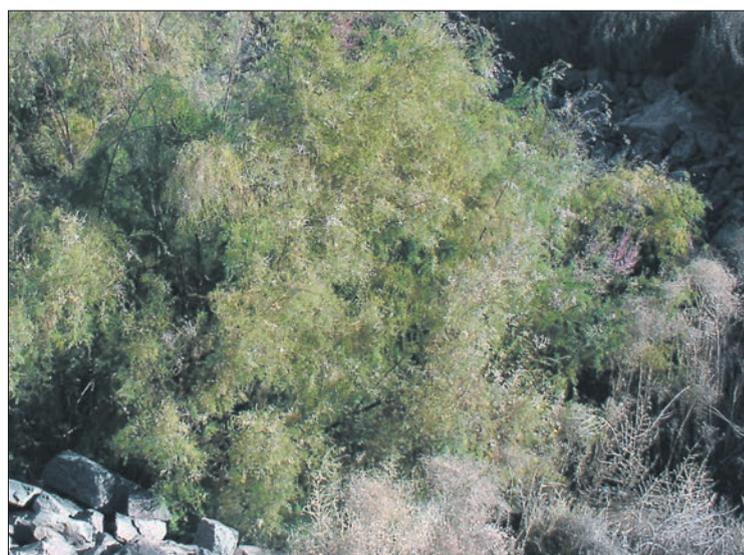
Saltcedar is one of those and has been moving into Western Canada.

It is the type of pest that makes droughts droughtier.

A dry-range plant that is often seen along the edges of dry ditches or streams or on dugout banks, Saltcedar loves wet feet. It's a heavy water user despite having a reputation for surviving droughts. Mature plants draw up to 800 litres per day in summer. So the case for control is a strong one, especially in areas where water is short.

Researchers at the University of Manitoba have been modelling its spread.

Producers who deal with it and purple loosestrife consider saltcedar the worst of the two pasture pests.



Saltcedar is a serious pest that is expanding its range northward.

| FILE PHOTO

Also known as tamarix, the plant was found in southern Saskatchewan in 2011 and Alberta before that. In the United States, it is estimated to cover more than one million acres.

Saltcedar was first imported to improve riparian areas by stabilizing stream banks and creating

windbreaks in arid and otherwise inhospitable regions.

It can take submersion, drought and salt. Its taproots, capable of descending 30 metres and spreading over twice that distance, can sustain the pest under the most arid conditions.

All that water it pumps can carry a

lot of salt, which the saltcedar concentrates and excretes through leaves that fall and mix into the soil, killing non-salt tolerant plants in the area and eliminating its competition.

The pink-flowered, deciduous plant is tolerant of nearly everything but shade. It has taken over large cottonwood and willow stands in the U.S., leaving the soil saline and difficult to reclaim.

The flowers form in finger-like clusters and are two to five centimetres long.

Seeds are in three to four millimetre-long capsules, are less than half a millimetre long and have a hairy tuft at one end. These copious seeds are a primary source of reproduction, but buried branches and stems are also capable of sprouting.

Waterways in Montana and North Dakota, including the Fort Peck Reservoir and Yellowstone River, have established, dense stands, creating strong opportunities for habitat expansion.

In many cases excavating machinery or recreational boats will unknowingly carry seed to new locations.

The Tamarix ramosissima, Tamarix pentandra, Tamarix chinensis and Tamarix parviflora forms of the pest are all present in North America and are all problems.

Cattle and sheep will eat the plant, but trampling in riparian areas can create its own issues that the pest was originally brought in to solve. Cutting followed by cultivation can be effective, but complete control is difficult with this method alone.

Imazapyr and glyphosate are effective on foliage. Triclopyr and imazapyr are useful for cut stumps and stems. Application of herbicides in wetland areas may require certified applicators to do the work.

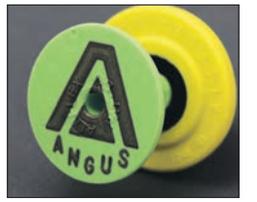
This is the last Weed of the Week for 2017. Got a weed that needs more attention? We'd be glad to get it in next year or in a future Production story. Email me at mike.raine@producer.com.

To see all the Weeds of the Week visit www.producer.com/category/weed-of-the-week-archive/.

LIVESTOCK

SURVEY LOOKS INTO EAR TAG EFFICIENCY

A 15-year-old cattle producer from Alberta conducts a survey of Angus producers to find out what they think about the ear tags their association uses. | **Page 51**



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CALGARY STAMPEDE

4-Hers win big with cash for education

Scholarships and prizes help young people hone skills and further their training

BY BARBARA DUCKWORTH
CALGARY BUREAU

The Calgary Stampede, 4-H Alberta and the Olds Agricultural Society host an annual youth program that offers \$75,000 scholarships and education opportunities.

Throughout the week at Olds, these young people learn showmanship, grooming, marketing and leadership skills topped off with livestock shows ending in a supreme championship at the final day of the Stampede, which this year was July 16.

No matter how much experience the participants have as junior livestock professionals, winning at the Stampede is a big deal.

"This was my biggest win ever," said Bailey Wauters of Wrentham, Alta., whose family raises about 350 commercial cattle.

She showed a home-raised Main-tainer commercial cow-calf pair to the supreme championship. She also had the champion commercial Simmental pair.

Wauters has been showing since she joined 4-H 10 years ago. Now she is a nursing student at Lethbridge College and works with cattle during her time off.

This summer rather than walking the wards of a hospital, she will be working at Six Mile Ranch in Saskatchewan.

The supreme champion purebred went to Laurie Morasch of Bassano, Alta., who is no stranger to the winner's circle. She won the



ABOVE: Bailey Wauters of Wrentham won the supreme champion commercial beef award at the Calgary Stampede.

BELOW LEFT: Jaxson Peltzer of Rosemary, Alta. won the supreme sheep award.

BELOW RIGHT: Laurie Morasch of Bassano, Alta. won the supreme champion commercial purebred. | BARBARA DUCKWORTH PHOTOS

Supreme championship at Canadian Western Agribition when she was 12, had the grand champion Red Angus bull at the National Western Stock Show in Denver, Colorado, and won the Summer Synergy supreme championship with a Red Angus pair in 2012.

Now 19, she is an animal science student at Lakeland College in Vermilion, Alta., where she is part of the research team studying residual feed intake and genomics.

She has taken that knowledge back to the family ranch, where genomic assessments are done on their purebred bulls.

"It has made a difference in the consistency of their numbers," she said.

Jaxson Peltzer of Rosemary, Alta., had the supreme sheep. The Alberta 4-H sheep show was held in conjunction with Summer Synergy to give participants an opportunity to vie for prizes and scholarships.

His family runs about 80 Hampshire-Suffolk cross ewes.

A Grade 12 student, Peltzer plans to attend Lakeland College after he graduates next year to study automotive mechanics.

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Auctioneer Dean Edge of Rimbey, Alta., won the Calgary Stampede International Livestock Auctioneer competition, taking home a cheque for \$10,000. He is pictured with his wife Jeanine and three children Erin, Lane and Lexie. | BARBARA DUCKWORTH PHOTO



WINNING CHANT

Local contestant wins champion auctioneer title at stampede

BY BARBARA DUCKWORTH
CALGARY BUREAU

A day in the life for Dean Edge revolves around family, cattle sales and rodeo.

A long-time employee of the auction company Vold Jones and Vold, Edge was named the champion international livestock auctioneer at the Calgary Stampede held July 7-16.

He competed against 23 other auctioneers from Canada, United States, Australia and South Africa and came away with a cheque for \$10,000. He also earned a berth at the world livestock auctioneer

championship in Wisconsin later this year.

An international panel of five judged the entrants on voice control, clarity, rhythm and the ability to engage the crowd.

During the fall and winter, Edge is sales manager for VJV and sells cattle out of Rimbey and Ponoka in central Alberta. While he has entered some auctioneer competitions in the past, more time was devoted to rodeo. He enters about 50 professional rodeos each year.

"The last couple years I have been in the calf roping in rodeo," he said.

"I decided if I don't get into the rodeo I would put 100 percent

effort into this," he said.

It is a busy life but he has been able to keep the two separate.

"As the rodeo season winds down the cattle markets start up," he said.

His wife Jeanine is a barrel racer and their three children — Erin, seven and five-year-old twins Lane and Lexie — are also starting to ride competitively.

Runner-up auctioneer this year was Trev Moravec of Schuyler, Nebraska.

Lincoln Mckinlay of Australia was rookie of the year and has worked as an auctioneer for five years selling mostly cattle.

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BLACKSMITH COMPETITION

If the shoe fits: farriers put talents to the test

Competition gives farriers the chance to show off their skills under pressure

BY BARBARA DUCKWORTH
CALGARY BUREAU

Art and science come together when blacksmiths compete at the Calgary Stampede.

Fifteen blacksmiths hammered out shoes for horses in timed events during a three-day competition. A panel of judges scrutinized every shoe as a work of craftsmanship that had to fit an individual's hoof perfectly.

Using horses from movie wrangler John Scott, each class had special requirements, said Robert Hitchner of the Stampede's blacksmith committee.

For the competitors, this event is an extension of their every day work but provides the bonus of a \$7,500 top prize, he said.

Farrier Chad Lausen of Strathmore, Alta., works year round with three employees taking care of about 600 horses. There is enough business in the area, and the

We do this every day, but it is nice to put yourself in a high stress situation against the best in Canada and have the opportunity to learn from that as well.

CHAD LAUSEN
ALBERTA FARRIER

mobile shop never has to travel more than 45 minutes from home.

Lausen learned his trade at Olds College and has been in business for 12 years shoeing horses and making farrier tools. Competition is a big part of his life — he enters about 12 events across the continent annually.

Two of his employees also entered the Calgary contest this year to gain more experience in a competitive setting but also to

learn more about their craft.

"This is a big contest in Canada," Lausen said. "I am really proud of my employees. They have stepped up in a big way."

He has also been a member of the western Canadian farrier team and likes the pressure to create a perfect show in a timed setting.

"Your adrenalin keeps you going as the time clock keeps ticking down," he said. "We do this every day, but it is nice to put yourself in a high stress situation against the best in Canada and have the opportunity to learn from that as well."

People often ask if they are hurting the horses.

"Everything we do is for the benefit of the horse," he said.

"That is the cool thing about our job. Everything we do is to make that horse's life better."

Colain Duret of Okotoks, Alta., was this year's champion.

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Chad Lausen of Strathmore, Alta., competes in the Calgary Stampede blacksmith competition, where he had to make a horseshoe to fit an individual horse's foot. | BARBARA DUCKWORTH PHOTO

INTERNATIONAL BISON CONFERENCE

Researcher finds healthy bison can be carriers of M. bovis

BY BARB GLEN
LETHBRIDGE BUREAU

BIG SKY, Mont. — Mycoplasma bovis has plagued cattle for years, causing respiratory disease, arthritis and mastitis, among other ailments.

But only since 1999 has it been associated with bison.

Karen Register, a research microbiologist with the U.S. Department of Agriculture's national animal disease centre, wants to know why. She has undertaken a study of M.

bovis in bison and has preliminary results.

The pathogen is more virulent in bison than in cattle, she told those at the International Bison Conference July 5.

In cattle, it is often a secondary invader that follows on other illness or stressors and is seldom the cause of death.

In contrast, M. bovis is frequently identified as the primary cause of death in infected bison.

Register said there is compelling evidence, though not proof, that novel variants of M. bovis have emerged, which could explain the difference.

She also seeks to learn when the pathogen first began to circulate in bison and to examine the role of healthy bison in its spread.

"One of the big questions we'd like to answer is, can healthy bison act as carriers for M. bovis," she said. "The answer is important because it has implications for monitoring practices, for biosecurity practices and for understanding what kinds of measures are reasonable and appropriate if you should encounter M. bovis in a healthy animal in your herd."

Data on bison with which to study that question is limited, but Register did find and use samples from bison collected from 18 American and 17 Canadian herds in the 1980s through 2015.

She learned that some bison carried the M. bovis pathogen years before its effects were noticed in herds. Multiple herds in both countries had animals carrying the pathogen.

Register said management practices might play a role. Bison raised in feedlots or more tightly penned conditions than free-roaming grass-fed animals had a higher rate

The answer is important because it has implications for monitoring practices, for biosecurity practices and for understanding what kinds of measures are reasonable and appropriate if you should encounter M. bovis in a healthy animal in your herd.

KAREN REGISTER, RESEARCH MICROBIOLOGIST

of M. bovis.

Though she was not prepared to make definitive conclusions, "it does seem reasonable to conclude that there is an association between the use of more intensive management practices and carriage (of M. bovis) in healthy animals in a herd."

Dr. John Church, a veterinarian and associate professor at Thompson Rivers University in Kamloops, B.C., said the debate over finishing bison on grass or in a feedlot situation continues to rage, and not because of M. bovis or any other disease risk.

Some bison producers favour the grass-fed model as part of bison's natural image in the minds of consumers.

However, Church said finishing bison on grass isn't economical in colder climates.

"If we were living in New Zealand, where the grass grows virtually year round, or Hawaii or Vancouver Island off the coast of B.C., where they get grazing 10 months of the year, grass-fed beef is pretty easy," he said.

"That connection to preserving the grasslands, it's a tremendous story but there's challenges, right? It's challenging in northern climates trying to raise bison."

Finishing bison in feedlots can reduce the time to market, increase carcass weight, improve grades and provide a consistent product,

while allowing producers to raise more bison on a limited land base.

However, care must be taken with rations to prevent acidosis.

"Bison have not been selected in breeding programs to perform on high grain finishing rations. Cattle, we've been doing it for a hell of a lot longer," said Church.

In his talk, he referenced a University of Saskatchewan study that concluded a high grain diet is viable for finishing bison but requires a higher level of management.

However, Church said bison in finishing diets with 80 percent rolled barley had high levels of acidosis, which he thinks constitutes animal abuse.

A key point in the U of S study, which Church said did not get enough emphasis, was the fact that the average daily gain of bison was no different in animals on a backgrounding diet of 45 percent rolled barley and the finishing diet with 80 percent.

Church said his own studies show finishing bison on grass and providing an additional pea screening pellet had good results with no acidosis issues.

"Seasonal supplementation with a pea screening pellet is a reasonable management strategy to alleviate seasonal grazing pressure while retaining a fatty acid profile which is very, very similar to grass fed beef."

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FATIGUE CATTLE SYNDROME

Cattle processing, hide colour, temperature play role in FCS

ANIMAL HEALTH



ROY LEWIS, DVM

A few years ago, cattle in an American feedlot went down during transport to a packing plant and others developed severe lameness.

This condition was eventually labelled fatigue cattle syndrome and became a significant animal welfare issue because of the appearance of severely lame, non-ambulatory cattle.

Beta agonists were initially blamed, but numerous studies have essentially proven that it was instead a combination of other factors.

Dr. Dan Thomson of Kansas State University and a team of researchers in production animal medicine identified several stressors that lead to fatigue cattle syndrome (FCS).

This condition can be confused with other syndromes, such as acute laminitis, caused by grain overload, and selenium/vitamin E deficiencies.

FCS symptoms include a strained pattern of breathing and very slow movements leading to non-ambulatory cattle. In severe cases there

has been sloughing of the hoofs.

Contributing factors to FCS are possibly preventable. The heat load definitely contributed, considering that the initial cases appeared in temperatures around 35 C.

The findings may lead to specific recommendations in our upcoming Canadian transportation code revision, and we need to be even more careful handling, transporting and butchering cattle in the summer for these reasons.

Depending on distance travelled or the number of cattle moved and sorted, perhaps a maximum temperature will be found that is safe.

We also know that hide colour has a lot to do with heat stress, and these tolerable temperatures may go down as the number of black-hided cattle go up.

I was privy to a very descriptive video showing heat stress in a pen of mainly black-hided cattle. While the majority of the cattle were in the shade of a porosity fence and breathing heavily, the red and white cattle were up at the feed bunk eating.

Of the few cattle I have treated for heat stress over the years, all have been black-hided.

Cattle handling, the time taken to load, the distance travelled and the related stress during movement all contribute to FCS.

Until this specific syndrome appeared, there was no reason to suspect we had a problem.

Researchers also performed



Hide colour can affect an animal's ability to cope with heat, as well as density in the truck and outside temperature. | GETTY PHOTO

blood tests, looking at muscle enzyme levels to see if any damage was done. The levels get very high in affected cattle. It is the same with downer cattle as they attempt to rise or calves with white muscle disease.

Thomson and his group found that aggressive handling produced the same muscle lactate levels as running a seven or eight-minute mile or walking for about 20 minutes.

We can all identify with this. If we run too far when we're not used to it, our muscles can become extremely sore for a few days because of the buildup of lactic acid.

Feedlot cattle are getting bigger, and when they are in prime condition for butchering they are not athletic enough to be running around for any amount of time. The

home pen in some large feedlots may be more than a mile from the load-out area, which had a bearing on the incidence of FCS. As a result, changes may need to be made to feedlot design, such as requiring staged moving or adding more load-out areas.

It will be nice to have parameters that are easily measurable and tied in with temperature.

FCS was also found at the packing plants. Common factors contributing to fatigue there were the time the cattle remained in the pens before slaughter and whether shade and cooling were available, particularly in areas with very hot climates.

Density in the pens was another factor because the cattle cannot properly dissipate heat when holding pens are too crowded.

Animal handling practices and

facilities were also examined.

Better facilities and staff training can often reduce stress, exertion and rough handling. The type of flooring was also a factor because some floor surfaces can cause injuries to the feet, which starts the process.

In the United States, discovering the causes of FCS has led to a training and monitoring protocol called the FCS Stewardship program. The goal is to minimize or eliminate FCS by removing or reducing these risk factors across the industry.

The incidence of FCS may never have been as high in Canada as in the U.S. because of our more temperate climate, but we still get very hot days in southern parts of the country in summer.

As a result, it makes sense to be aware of the potential ramifications of how we sort, process, load and transport cattle. This is especially true with heavy market weight, black-hided cattle in the hot summer days.

This is also a good example of not jumping to conclusions when emerging diseases come out and thoroughly researching the cause. The feedlot sector was set back when some beta agonists were prohibited from being fed because they were thought to be the cause. We must follow science to allow the cattle industry to progress.

Roy Lewis works as a technical services veterinarian part time with Merck Animal Health in Alberta.

EAR TAG SURVEY

Young cattle producer discovers Angus ear tags need better promotion

The tags may help when selling cattle, says Alberta Angus owner

BY BARBARA DUCKWORTH
CALGARY BUREAU

OLDS, Alta. — Thomas Wildman says working with cattle is a sport, but he also takes the business seriously.

The 15-year-old from Sangudo, Alta., decided to run an online survey to assess people's opinions about green identification ear tags offered by the Canadian Angus Association. The project was part of a marketing competition for the mega junior show, Summer Synergy, but he was also personally interested because his family uses the tags.

Various Canadian associations sell different coloured electronic ear tags to indicate breed influence. The Angus association sells green tags to identify cattle that are at least 50 percent Angus. They are compatible with the Canadian Cattle Identification Agency ear tags.

He launched his survey in May with help from the Angus association and was overwhelmed by the response when nearly 300 replied.

"We got one person from every province," he said.

He found an even split between male and female respondents



CANADIAN ANGUS ASSOCIATION PHOTO

LEFT: Thomas Wildman received nearly 300 producer opinions from a survey he conducted about the green ear tags, above, used to identify cattle that are at least 50 percent Angus.

| BARBARA DUCKWORTH PHOTO

whose herds ranged in size from 100 to 250 cows. Most were family farms with registered cattle and most run Black Angus herds.

Most had heard of the program and were quite blunt in their assessment of the tags.

Some complained the colours and letters on the tags fade and were not as high a quality as they might like.

His parents, Kirk and Jill Wildman, expressed the same concern when they put the green button tags into the ears of weaned calves.

"We find with the ear tags, they kind of fade over time," he said.

Some said they did not see any value in the tags and did not use them.

"That might be the one thing the Angus association might take to heart," he said.

"They need to get a way to tell people this might help them in selling their cows whether it is for slaughter or breeding purposes."

Other respondents said they ran big commercial herds and used tags from other breeds.

Thomas has been active with cattle since his parents bought him his first Red Angus heifer at the age of three.

He is busy with 4-H as well and started showing his first animals when he joined the movement at age nine.

barbara.duckworth@producer.com

HEALTH CARE FOR THE FOUR-LEGGED "EMPLOYEE"



Farm dogs not only provide companionship, they can keep predators at bay, sometimes even the two-legged kind! Farm cats spend their time keeping mice and rat populations from invading buildings and farm equipment, and allow farmers to avoid using poisons which can be harmful to animals they are not intended for. Both dogs and cats are great companions while doing chores and farm work.

A good farm dog or even barn cat can be hard to replace, so you might want to consider protecting your investment with some preventative care for these invaluable animals.

Deworming on a regular basis with prescription products from your veterinarian will cover a wide range of parasites. Parasites can be transmissible to humans. Regular deworming can assist the animal in maintaining their body condition more effectively and efficiently because the animal's body doesn't have to compete with parasites for nutrition. Even the barn cats can benefit, so talk to your vet about how they can help keep your barn cats healthy too.

Disease can spread very quickly, and rural Saskatchewan is no exception with the wider variety of wildlife that wanders near farm yards. Vaccinating for various diseases will protect your animals and your family.

Distemper is carried by coyotes, foxes, badgers, wolves, mink and skunks. Often, "mangy" looking coyotes are actually suffering from distemper. Rabies is carried by animals such as coyotes, bats, skunks and raccoons. With distemper and rabies, animals can carry the disease and show no symptoms. These predators travel through a yard at night unseen, but can pose a significant threat to domestic animals.

Parvo Virus can be transmitted in the soil, by other dogs (including wild animals) or from dirty hands. Vaccinations for puppies start at 8 weeks of age, so until they are fully vaccinated at 16 weeks, wash your hands regularly to help keep puppies safe from this deadly disease.

There are other vaccines available, and your veterinarian can discuss which vaccines are needed based on an assessment of your animals' risk.

Population control and disease control go hand-in-hand. Higher populations of animals can be costly to feed. Increased population density frequently leads to fighting and sees more prevalent disease. Spaying and neutering prevents unwanted pregnancies, reduces disease and "cat fights" which lead to injured cats that cannot be caught for treatment.

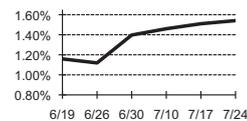
If you need one or more barn cats, you may want to consider adopting one from a "barn buddies" program through a local humane society. The cats up for adoption in the barn buddies programs are not suitable for house cats, but fit the bill perfectly for barn/farm cats, so as an added bonus, you are helping a local organization and controlling the cat population.



AGFINANCE

CDN. BOND RATE:

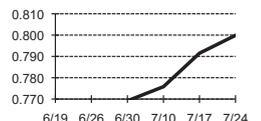
1.541%



Bank of Canada 5-yr rate

CDN. DOLLAR:

\$0.7999



July 24

AGFINANCE EDITOR: D'ARCE MCMILLAN | Ph: 306-665-3519 F: 306-934-2401 | E-MAIL: DARCE.MCMILLAN@PRODUCER.COM | TWITTER: @DARCEMCMILLAN



Bunge plans to restructure its global operations to cut costs by \$250 million over the next two years. | FILE PHOTO

TAKE-OVER TARGET

Bunge struggles in tough market

A second weak quarter could open the door for Glencore to make another bid for the company

CHICAGO, Ill. (Reuters)—Bunge Ltd.'s sweeping plans to overhaul its business and cut costs may not be enough to compensate for weak earnings and could still leave it vulnerable to a new bid from diversified rival Glencore PLC.

Glencore's current agricultural holdings include Viterra.

Bunge is a part owner of G3 Canada and has five oilseed crushing plants in Canada.

Bunge, the smallest of the listed global grain traders, rebuffed a bid from Glencore in May, but its admission July 19 that second quarter earnings would disappoint has opened up the possibility that Glencore might make another approach, analysts said.

It would be Bunge's second consecutive weak quarter after first quarter profit fell 82 percent.

Bunge said it would cut costs and restructure its global operations in response to tough market conditions.

It expects its latest plans would reduce overhead costs by US\$250 million once the plan is fully implemented by the end of 2019.

"To the extent that they underperform expectations, it's more likely that someone will look to acquire them or do some sort of transaction with them," said John

Rogers, senior vice-president at Moody's.

If Glencore, whose market capitalization is more than five times Bunge's \$11 billion, does make a second attempt and is successful, it would be the industry's largest shakeup in decades and redraw the global food supply chain.

The Glencore bid has made companies across the agribusiness space look at their assets in a new light, with a focus on return on invested capital.

FARHA ASLAM
ANALYST

"The Glencore bid has made companies across the agribusiness space look at their assets in a new light, with a focus on return on invested capital," said Farha Aslam, an analyst with Stephens Inc.

Global grain trading has long been dominated by Bunge and its three main rivals — Archer Daniels Midland Co., Cargill Inc. and Louis Dreyfus Corp. — which typically make money by buying crops

locally from farmers and shifting them to global buyers. They own capital intensive assets such as warehouses, ships, barges and processing plants.

However, the landscape has changed dramatically in the last four years as bumper harvests have kept grain prices low and crimped trading profits.

The big four traders have taken steps to diversify, selling underperforming assets and buying businesses that offer higher margins.

Glencore's move has stepped up the push for change and could herald a shakeup similar to the transformation of the agrichemicals industry, where six leading players are merging into three giants in deals totalling around \$240 billion.

Dow Chemical and DuPont are merging, China's ChemChina will buy Syngenta and Bayer has snapped up Monsanto.

It was Bunge's own chief executive officer, Soren Schroder, who in May suggested consolidation among the grain traders was coming — and even said his company could lead it.

Glencore, best known in metals and energy trading, has so far been one of the most active players, setting its sights on expanding its

agricultural commodities business. It pursued Louis Dreyfus's grains business in recent years but failed to strike a deal.

The big traditional companies are also facing stiffer competition from players such as China's COFCO Group, which recently scooped up the agribusiness of Singapore-listed Noble Group and Dutch grain trader Nidera, and Japanese trading house Marubeni Corp., which bought U.S. grain handler Gavilon in 2012.

However, COFCO is likely to sit out the industry consolidation as it integrates recent acquisitions.

Privately held Cargill is two years into a restructuring and confident it can take part in the shakeup to come.

It launched a restructuring effort in late 2015 and has already sold \$700 million of assets and made strategic investments of \$1 billion, including fish feeding and chocolate.

Its latest quarterly profit was sharply higher than a year ago, suggesting the changes are bearing fruit.

"If our profitability continues to perform well, we just create more room for acquisitions," said Marcel Smits, Cargill's chief financial officer.

AG STOCKS JULY 17-21

U.S. indexes hit fresh record highs. The loonie continued climbing. For the week, the Toronto Stock Exchange composite rose .5 percent, the Dow fell .3 percent, the S&P 500 rose .5 percent and the Nasdaq rose 1.2 percent. For the year, the Dow is up 9.2 percent while the TSX is down .7 percent.

Cdn. exchanges in \$Cdn. U.S. exchanges in \$U.S.

GRAIN TRADERS

NAME	EXCH	CLOSE	LAST WK
ADM	NY	41.26	41.48
AGT Food	TSX	26.00	25.34
Bunge Ltd.	NY	79.63	78.38

PRAIRIE PORTFOLIO

NAME	EXCH	CLOSE	LAST WK
Ceapro Inc.	TSXV	0.87	0.88
Cervus Equip.	TSX	11.91	11.73
Input Capital	TSXV	1.91	1.97
Rocky Mtn D'ship	TSX	9.86	10.13

FOOD PROCESSORS

NAME	EXCH	CLOSE	LAST WK
ConAgra Brands	NY	33.88	33.58
Hormel Foods	NY	33.23	32.83
Lamb Weston	NY	45.00	43.65
Maple Leaf	TSX	32.32	32.80
Premium Brands	TSX	90.61	93.11
Tyson Foods	NY	61.88	61.39

FARM EQUIPMENT MFG.

NAME	EXCH	CLOSE	LAST WK
AGI	TSX	55.81	56.70
AGCO Corp.	NY	71.82	70.28
Buhler Ind.	TSX	4.15	4.23
Caterpillar Inc.	NY	106.59	108.77
CNH Industrial	NY	11.65	11.96
Deere and Co.	NY	125.75	125.47

FARM INPUT SUPPLIERS

NAME	EXCH	CLOSE	LAST WK
Agrium	TSX	125.42	124.69
BASF	OTC	94.39	96.23
Bayer Ag	OTC	129.51	129.37
Dow Chemical	NY	66.14	66.24
Dupont	NY	84.54	84.75
BioSynt Inc.	TSXV	8.20	8.48
Monsanto	NY	117.38	117.10
Mosaic	NY	24.37	23.72
PotashCorp	TSX	22.56	22.41
Syngenta	ADR	92.31	92.56

TRANSPORTATION

NAME	EXCH	CLOSE	LAST WK
CN Rail	TSX	102.86	105.92
CPR	TSX	203.28	210.81

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.

Olymel expands sausage facility

SASKATOON NEWSROOM

Olymel is spending \$8.1 million to upgrade its sausage plant in Quebec. The investment will double the footprint of the plant at La Fernandière to 45,000 sq. feet, the company said.

Production should grow to almost 20 million kilograms from 14 million.

The work will reconfigure four current production lines and add a fifth as well as expand storage space. The plant will also resume making meatloaf.

It is also spending \$2 million on its Red Deer plant to make sausages.

NOT A PARTNERSHIP

Joint ventures: sharing resources while retaining your own entity

TAKING CARE OF BUSINESS



COLIN MILLER

It is getting harder every year to compete in the agricultural industry unless you have a large operation. Furthermore, with high land prices and expected increases in interest rates, there is a lot of risk to expand on your own.

One possible way to compete with ever growing operations is a joint venture agreement with your neighbours. Joint ventures are a way for farmers to combine their operations to use each other's resources.

I personally like this type of arrangement because it allows for different families and farm corporations to work together while allowing you to retain your own entity and control your own assets.

A common misperception is that a joint venture is a partnership, when in fact they are quite different.

Joint ventures involve two separate entities agreeing to work together for a set period of time. The income received from the joint venture is combined with each entity's normal tax reporting.

A major benefit to a joint venture is that each party is eligible for the small business deduction

This type of business structure has the flexibility for you to remain a single entity while sharing the use of assets and resources to create a much larger operation. This can create economies of scale to have an upper hand in such a competitive market.

A big consideration in starting a joint venture is the benefit of keeping the small business deduction of \$500,000 for the corporations involved.

This is unlike a partnership, in which the partners would be required to share this \$500,000 small business limit. It is an obvious benefit because taxable income exceeding \$500,000 can result in a hefty tax bill on a farm, considering that it is taxed at a higher rate.

Let's take a look at two incorporated farms.

John Co. has an abundance of land that needs to be farmed but does not have the appropriate equipment. His friend Bob Co. has a lot of machinery for specialty crops and is capable of taking on more acres.

These two decide to farm together in a joint venture for one year.

Based on the land and equipment that are contributed, John Co. gets 60 percent of total profits and Bob Co. gets 40 percent.

They will also contribute this

percentage of cash needed for the operation based on the agreement.

The joint venture earns profit of \$650,000. Therefore, John Co.'s profit allocation is \$390,000 and Bob Co.'s is \$260,000.

Assuming their individual operations keep them below the \$500,000 limit, both corporations are able to keep their small business deduction and be taxed at the lower corporate rate.

There will be circumstances when someone in the agreement wants to leave and pursue their own independent operation.

There is a short period of dividing

up certain assets that were contributed to the venture, yet there is no tax consequences of ending this relationship. Therefore, this can be a very simple process with each entity simply retaining what was contributed.

A wide range of possibilities is available if you are looking to implement a joint venture, and professional advice is wise.

Riley Honess and Craig Lyon of KPMG contributed to this article.

Colin Miller is a chartered accountant and partner with KPMG's tax practice in Lethbridge. Contact: colinmiller@kpmg.ca.

ACQUISITION

McCormick wins bid for food firm; includes French's mustard, ketchup

(Reuters and staff) — U.S. spice-maker McCormick & Co. has won the battle to buy Reckitt Benckiser Group's North American food business, which includes French's mustard and ketchup.

McCormick competed with Unilever and Hormel Foods in the auction and paid a higher than expected US\$4.2 billion, or 19.6 times earnings before interest, tax, depreciation and amortization.

McCormick says it will continue to produce ketchup in Canada.

French's gained profile in Canada after Heinz stopped producing ketchup in Ontario, creating a social media backlash. French's stepped in to buy Ontario toma-

toes for its ketchup.

Last summer it announced it had hired Select Food Products Ltd. of Toronto to make ketchup for the Canadian market using Canadian tomatoes. That plant opened this year and recently added production of a caesar cocktail mix, also using locally grown tomatoes.

French's also uses 100 percent prairie-grown mustard seed for its world-leading brand. It also makes Frank's RedHot sauce.

Reckitt wanted the sale to raise money to cut its debt following its \$16.6 billion purchase of baby formula maker Mead Johnson.

McCormick is known for its Lawry and Club House spices.

Hear the stories behind the stories.



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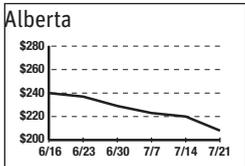


Bayer

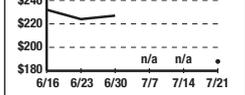
GLACIER farmmedia ((🌱)) PODCAST

CATTLE & SHEEP

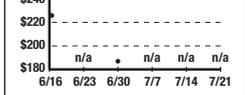
Steers 600-700 lb. (average \$/cwt)



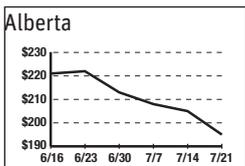
Saskatchewan



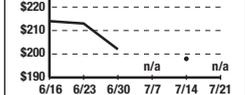
Manitoba



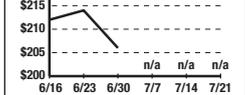
Heifers 500-600 lb. (average \$/cwt)



Saskatchewan



Manitoba



Canadian Beef Production

million lb.	YTD	% change
Fed	1,031.4	+3
Non-fed	186.4	+11
Total beef	1,217.8	+4

Canfax

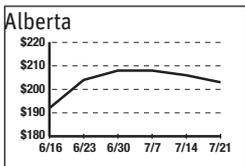
EXCHANGE RATE

JULY 24
 \$1 Cdn. = \$0.7999 U.S.
 \$1 U.S. = \$1.250 Cdn.

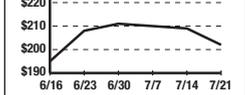
HOGS

Due to wide reporting and collection methods, it is misleading to compare hog prices between provinces.

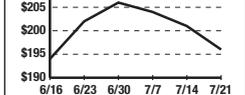
Index 100 Hog Price Trends (\$/c/kg)



Saskatchewan Sig. 5



Manitoba



ELEVATOR SHIPMENTS

Slaughter Cattle (\$/cwt)

Grade A	Live		Year ago	Rail		Previous
	July 14-July 20	July 7-July 13		July 14-July 20	July 7-July 13	
Steers						
Alta.	n/a	n/a	144.94	237.75-241.50	238.50-241.50	
Ont.	141.87-160.44	148.33-160.39	147.73	249.00-260.00	253.00-265.00	
Heifers						
Alta.	n/a	n/a	143.22	240.50-241.50	n/a	
Ont.	143.64-157.51	140.41-158.19	143.02	248.00-259.00	252.00-264.00	

*Live f.o.b. feedlot, rail f.o.b. plant. Canfax

Feeder Cattle (\$/cwt)

	Sask.				B.C.
	Sask.	Man.	Alta.	B.C.	
Steers					
900-1000	no sales	no sales	160-182	no sales	
800-900	170-190	no sales	174-200	no sales	
700-800	no sales	no sales	190-215	no sales	
600-700	185-195	no sales	190-220	no sales	
500-600	no sales	no sales	195-235	no sales	
400-500	194-224	no sales	208-235	no sales	
Heifers					
800-900	no sales	no sales	160-180	no sales	
700-800	155-184	no sales	164-190	no sales	
600-700	no sales	no sales	170-196	no sales	
500-600	no sales	no sales	185-205	no sales	
400-500	172-190	no sales	188-212	no sales	
300-400	no sales	no sales	no sales	no sales	

Canfax

Average Carcass Weight

	YTD 17				YTD 16
	July 15/17	July 16/16	YTD 17	YTD 16	
Canfax					
Steers	860	896	880	915	
Heifers	789	826	813	844	
Cows	756	772	740	775	
Bulls	1,037	1,018	1,055	1,027	

U.S. Cash cattle (\$/cwt)

	Steers		Heifers	
	35-65% choice	Trend	35-65% choice	Trend
National	119.79	119.62	119.62	119.62
Kansas	119.41	118.35	118.35	118.35
Nebraska	120.00	n/a	n/a	n/a
Nebraska (dressed)	n/a	n/a	n/a	n/a

	Steers		Trend
	800-900 lb	800-900 lb	
South Dakota	145.25-165.00	steady/+5	
Billings	n/a	n/a	
Dodge City	146.50-155.00	+5/+8	

USDA

Cattle / Beef Trade

	Exports		% from 2016	
	2016	2017	2016	2017
Sltr. cattle to U.S. (head)	265,126 (1)	-10.6		
Feeder C&C to U.S. (head)	80,376 (1)	-42.1		
Total beef to U.S. (tonnes)	104,175 (3)	-1.8		
Total beef, all nations (tonnes)	106,130 (3)	+4.7		

	Imports		% from 2016	
	2016	2017	2016	2017
Sltr. cattle from U.S. (head)	n/a (2)	n/a		
Feeder C&C from U.S. (head)	23,496 (2)	+164.0		
Total beef from U.S. (tonnes)	66,025 (4)	-1.4		
Total beef, all nations (tonnes)	96,126 (4)	-11.6		

(1) to July 8/17 (2) to May 31/17 (3) to May 31/17 (4) to July 15/17
 Agriculture Canada

Fixed contract \$/c/kg

(Hams Marketing)	Maple Leaf Sig 5		Thunder Creek Pork	
	July 21	July 21	July 21	July 21
Week ending				
Aug 05-Aug 12	176.08-176.28	174.99-177.53		
Aug 19-Aug 26	168.29-172.93	158.90-164.65		
Sep 02-Sep 09	154.21-157.95	146.86-150.61		
Sep 16-Sep 23	150.18-151.77	145.45-146.09		
Sep 30-Oct 07	149.65-149.78	147.75-149.31		
Oct 14-Oct 21	147.72-147.95	144.62-146.64		
Oct 28-Nov 4	142.95-146.93	141.05-143.36		
Nov 11-Nov 18	136.10-139.65	131.35-135.90		
Nov 25-Dec 02	129.47-131.80	128.73-129.07		
Dec 09-Dec 16	134.34-137.28	129.72-132.01		

Hog Slaughter

To July 15	Fed. inspections only	
	Canada	U.S.
To date 2017	11,127,260	62,999,197
To date 2016	10,878,078	60,950,745
% change 17/16	+2.3	+3.4

Agriculture Canada

Hogs \$/c/kg

Alta. Index 100	202.50	Man. Index 100	196.00
Sask. Sig. 5	202.47	Que. Index 100	216.13

*incl. wt. premiums

Hogs / Pork Trade

	Export		Import	
	2016	2017	2016	2017
Sltr. hogs to/fm U.S. (head)	462,226 (1)	-11.3	n/a	n/a
Total pork to/fm U.S. (tonnes)	157,187 (2)	-8.1	99,423 (3)	+11.4
Total pork, all nations (tonnes)	545,480 (2)	+4.7	111,081 (3)	+6.9

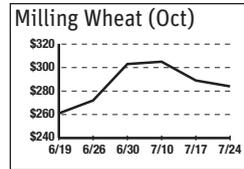
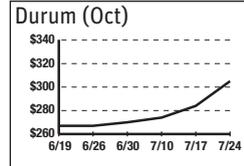
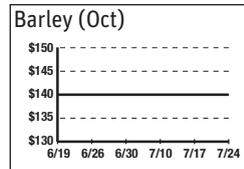
(1) to July 8/17 (2) to May 31/17 (3) to July 15/17
 Agriculture Canada

Chicago Hogs Lean (\$/cwt)

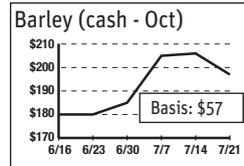
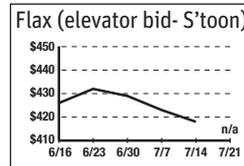
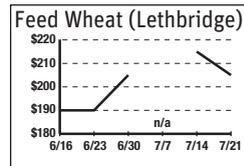
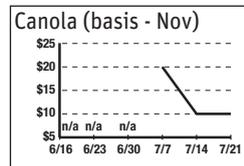
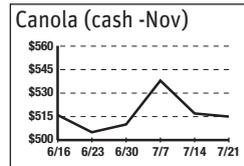
	Close		Trend	Year ago	Close		Trend	Year ago	
	July 21	July 14			July 21	July 14			
Aug	81.10	79.90	+1.20	75.28	Apr	70.65	69.88	+0.77	67.38
Oct	67.23	67.18	+0.05	63.90	May	75.88	75.20	+0.68	72.40
Dec	61.98	62.23	-0.25	58.48	Jun	78.60	77.33	+1.27	76.13
Feb	66.95	66.15	+0.80	62.98	Jul	77.88	76.70	+1.18	75.15

GRAINS

ICE Futures Canada

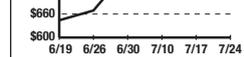
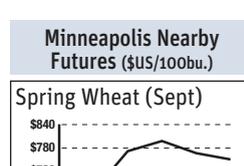
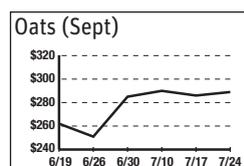
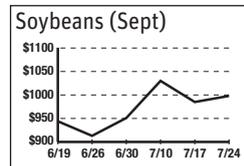
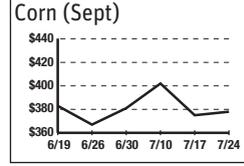


Cash Prices



Canola and barley are basis par region. Feed wheat basis Lethbridge. Basis is best bid.

Chicago Nearby Futures (\$/100 bu.)



Pulse and Special Crops

Source: STAT Publishing, which solicits bids from AGT Inc., Canpulse Foods, CGF Brokerage, Maviga NA, Parrish and Heimbecker, Scoular Canada and Simpson Seeds. Prices for dressed product at plant.

	July 21	July 14	June 23
Laird lentils, No. 1 (c/lb)	40.43	44.67	44.67
Laird lentils, No. 2 (c/lb)	36.50	36.67	36.67
Laird lentils, Xtra 3 (c/lb)	25.80	25.20	25.20
Richlea lentils, No. 1 (c/lb)	34.00	37.62	37.62
Eston lentils, No. 1 (c/lb)	34.83	37.36	37.07
Eston lentils, No. 2 (c/lb)	31.60	35.25	36.79
Eston lentils, Xtra 3 (c/lb)	25.00	25.00	28.00
Sm. Red lentils, No. 2 (c/lb)	23.08	21.92	21.64
Sm. Red lentils, Xtra 3 (c/lb)	19.29	17.86	18.93
Peas, green No. 1 (\$/bu)	8.06	8.31	8.31
Peas, medium, yellow No. 1 (\$/bu)	9.33	9.33	9.00
Peas, sm. yellow No. 2 (\$/bu)	8.61	8.32	8.94
Feed peas (\$/bu)	6.03	6.03	6.53
Maple peas (\$/bu)	15.17	15.17	15.17
Mustard, yellow, No. 1 (c/lb)	32.00	31.50	30.25
Mustard, Oriental, No. 1 (c/lb)	29.67	29.67	30.50
Mustard, Brown, No. 1 (c/lb)	37.33	36.55	36.33
Canaryseed (c/lb)	22.68	20.82	20.46
Desi chickpeas (c/lb)	35.67	35.67	35.67
Kabuli, 8mm, No. 1 (c/lb)	60.58	59.58	59.58
Kabuli, 7mm, No. 1 (c/lb)	39.58	39.58	39.58
B-90 cpeas, No. 1 (c/lb)	45.00	46.00	46.00

Cash Prices

	July 19	July 12	Year Ago
No. 3 Oats Saskatoon (\$/tonne)	n/a	170.06	148.15
Snlwlr NuSun Enderlin ND (c/lb)	17.35	16.85	17.25

U.S. Grain Cash Prices (\$/bu.)

USDA	July 21
No. 1 DNS (14%) Montana elevator	7.31
No. 1 DNS (13%) Montana elevator	6.91
No. 1 Durum (13%) Montana elevator	8.42
No. 1 Malt barley Montana elevator	3.48
No. 2 Feed barley Montana elevator	2.18

Grain Futures

	July 24	July 17	Trend	Year ago
Wpg ICE Canola (\$/tonne)				
Nov	494.00	506.20	-12.20	449.90
Jan	499.90	510.20	-10.30	451.40
Mar	504.40	513.40	-9.00	458.20
May	507.40	512.80	-5.40	462.30

	July 24	July 17	Trend	Year ago
Wpg ICE Milling Wheat (\$/tonne)				
Oct	284.00	289.00	-5.00	209.00
Dec	291.00	295.00	-4.00	212.00
Mar	296.00	301.00	-5.00	218.00

	July 24	July 17	Trend	Year ago
Wpg ICE Durum Wheat (\$/tonne)				
Oct	305.00	284.00	+21.00	261.00
Dec	288.00	286.00	+2.00	264.00

	July 24	July 17	Trend	Year ago
Wpg ICE Barley (\$/tonne				

CAMOUFLAGED | Well camouflaged against the weathered roof of an old farm building at Brant, Alta., a great horned owl sits in the late-evening sun. | MIKE STURK PHOTO



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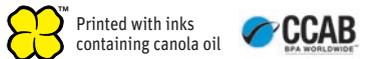
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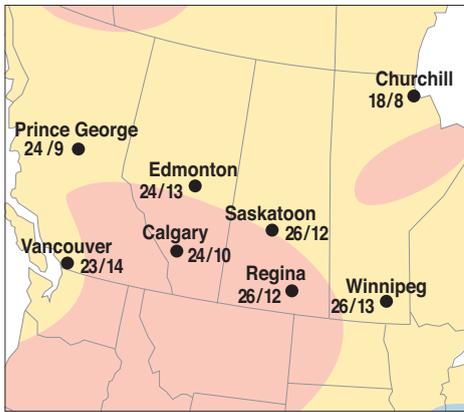
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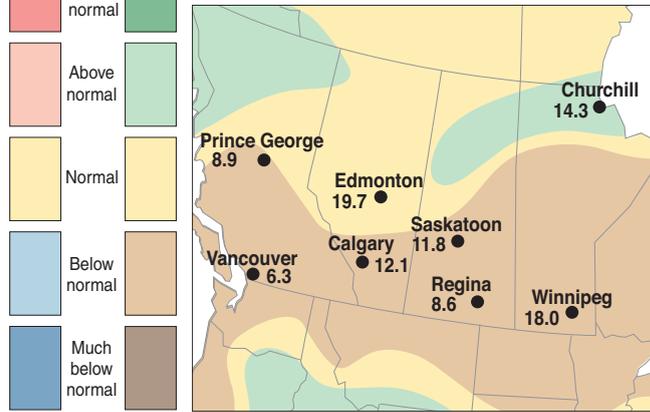
We acknowledge the financial support of the Government of Canada.



TEMPERATURE FORECAST
 July 27 - Aug. 2 (in °C)



PRECIPITATION FORECAST
 July 27 - Aug. 2 (in mm)



The numbers on the above maps are average temperature and precipitation figures for the forecast week, based on historical data from 1971-2000. Maps provided by WeatherTec Services: www.weathertec.mb.ca n/a = not available; tr = trace; 1 inch = 25.4 millimetres (mm)

LAST WEEK'S WEATHER SUMMARY ENDING JULY 30

SASKATCHEWAN

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Assiniboia	34.7	5.8	1.4	92.0	48
Broadview	28.2	7.0	0.0	115.4	54
Coronach	33.8	6.1	10.8	82.2	42
Eastend Cypress	32.3	5.2	0.0	104.8	55
Estevan	29.9	8.4	1.8	115.6	55
Maple Creek	34.5	3.2	0.4	118.7	67
Meadow Lake	26.3	5.4	14.1	338.1	181
Melfort	27.6	8.9	20.5	163.7	87
Nipawin	26.6	9.3	21.4	230.8	114
North Battleford	28.2	5.2	34.7	154.1	85
Prince Albert	26.7	8.0	19.9	198.6	101
Regina	32.8	4.7	0.5	77.4	40
Rockglen	33.6	10.1	7.6	74.7	39
Saskatoon	29.6	5.9	9.5	125.5	69
Swift Current	33.1	5.3	0.5	82.3	45
Val Marie	34.3	6.0	1.0	68.7	41
Wynyard	28.2	9.2	21.0	119.9	61
Yorkton	28.0	10.2	42.7	150.9	70

ALBERTA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brooks	33.3	5.6	0.2	137.2	86
Calgary	30.6	5.8	1.8	187.3	85
Cold Lake	25.2	5.9	51.4	296.8	150
Coronation	31.1	3.1	0.9	144.5	82
Edmonton	25.5	5.4	39.6	214.3	94
Grande Prairie	25.6	7.8	11.4	212.3	114
High Level	28.1	2.6	20.5	149.2	96
Lethbridge	34.2	3.4	0.5	161.9	88
Lloydminster	26.5	5.9	12.9	257.7	136
Medicine Hat	35.2	6.5	0.0	156.8	99
Milk River	35.2	4.5	0.0	238.1	121
Peace River	26.0	6.2	6.4	167.2	96
Pincher Creek	30.8	2.5	0.0	232.4	93
Red Deer	26.7	1.8	10.7	217.1	88
Stavely	30.0	6.0	3.1	243.1	111
Vegreville	26.4	6.0	16.5	248.1	131

All data provided by Agriculture and Agri-Food Canada's National Agroclimate Information Service: www.agr.gc.ca/drought. Data has undergone only preliminary quality checking. Maps provided by WeatherTec Services Inc.: www.weathertec.mb.ca

MANITOBA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Brandon	27.2	6.2	19.8	138.6	62
Dauphin	26.8	9.3	27.1	219.0	101
Gimli	25.8	9.1	30.2	194.7	86
Melita	27.8	9.0	7.8	133.6	64
Morden	26.8	10.1	35.6	136.7	57
Portage La Prairie	26.9	11.7	17.6	163.6	71
Swan River	27.8	8.9	14.6	151.4	66
Winnipeg	25.7	8.0	29.0	175.8	75

BRITISH COLUMBIA

	Temperature last week		Precipitation since April 1		
	High	Low	mm	mm	%
Cranbrook	33.0	5.8	0.4	103.1	63
Fort St. John	24.6	8.3	6.5	263.1	145
Kamloops	33.1	9.9	3.7	61.3	55
Kelowna	32.8	7.1	0.0	102.1	75
Prince George	25.5	2.0	5.8	210.1	112

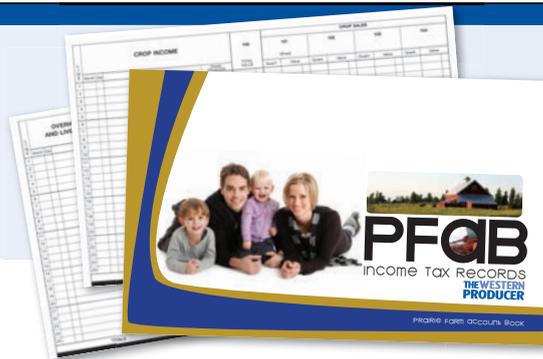
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