



THE SECRET TO KEEPING YOUR RESOLUTIONS

This 16-year-old is here to help you achieve your new year goals » PG 3



MAKE HEALTHY LIVING PART OF YOUR BUSINESS PLAN

Don't assume farm work is enough to keep you in good shape » PG 2

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EXPRESS

Just a bad patch? Or is the cattle sector in denial?

Two views of how the plan to revitalize the beef sector is working so far

BY ALEXIS KIENLEN
AF STAFF

The cattle industry needs to stop patting itself on the back and face an uncomfortable truth — its grand plan to create a bright new future isn't yielding results.

That's the view of Charlie Gracey, one of Canada's most renowned experts on the beef industry. And all you have to do is look at the shrinking number of cattle and ranchers, said the

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YEAR IN REVIEW

It likely wasn't your greatest year, but 2016 was definitely eventful

Weather was the big story but it was also a year when pulses took centre stage, farm groups came together like never before, and sustainable beef hit a milestone

BY GLENN CHEATER, ALEXIS KIENLEN
AND JENNIFER BLAIR
AF STAFF

Stepping back and looking at the year gone past is a great way to prepare for the one ahead.

For most producers, 2016 was a grind with a distinct shortage of highlight reel moments. But the world always moves forward and there were many significant changes that took place over the last 12 months.

Here are five of note.

THE BEST YEARS ARE STILL AHEAD FOR PULSE GROWERS

'Past results are no guarantee of future performance.'

That standard warning from the stock market certainly applied to pulses this year as prices dropped sharply and excessive rain downgraded many Alberta pea and lentil crops to feed category.

Poor harvests in India sent pulse prices sky high in 2015 and Alberta farmers sure noticed. According to StatsCan, they seeded 232,700 hectares of lentils — double the acreage of 2015 and five times what they planted the year before that. Peas were sown on a whopping 2.27 million hectares, 73 per cent more than in 2015.

But neither Mother Nature nor the markets co-operated — prices fell and so did the rain. There's likely a fair number of farmers who have vowed to never grow those crops again, or at least on poor-draining fields better suited to cereals or canola. And the spread of root rot means many other fields won't see a pulse crop for quite a while.

But while it proved to be a crummy year for growing pulses, it was a heck of a one for spreading the word about their health and environmental benefits.

Sylvan Lake farmer Allison Ammeter — Alberta's, and perhaps, the country's most enthusiastic booster of the crop — was

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TAXING CARBON ALSO MEANS AN INCREASE IN FOOD PRICES

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Historic research ranches won't be riding off into the sunset

The future of Onefour and Stavely ranches has been secured by the province and the University of Alberta

BY ALEXIS KIENLEN
AF STAFF/EDMONTON

Decades of grassland research in southern Alberta will be preserved thanks to a deal between the province and the University of Alberta.

The agreement will ensure rangeland studies continue at the historic research ranches of Stavely and Onefour.

In 2013, the future of both sites was thrown up in the air when the federal government decided to discontinue to use them following a round of budget cuts. The herd at Onefour was disbanded later that year, but the province stepped in to allow research to continue at both sites.

Stavely sits on 930 acres near the town of the same name midway between Calgary and Fort MacLeod. It was established by the federal government in 1949 and located in Foothills fescue region, which is susceptible to invasion by introduced plant species. One of the most comprehensive stocking rate studies in North America was created at Stavely, and is still ongoing.

Onefour, a 42,000-acre ranch south of Medicine Hat along the United States border, was also set up by Ottawa (in 1927). Located in one of the driest areas of the province, it's unique because of its biodiversity and species at risk, and is challenging to manage from a productivity perspective. At Onefour, plots have been used to monitor the productivity of grasslands in regards to long-term climate trends.



The 42,000 acres of short-grass prairie at Onefour Ranch is home to at least 23 federally listed species at risk, including the mountain plover (inset). PHOTOS: CLIFF WALLIS

Both ranches have conserved valuable native prairie, flora, fauna, and wildlife habitat — and are considered “the birthplace for range management in Western Canada,” said Agriculture Minister Oneil Carlier. “Both sites have been examples of how land stewardship can lead to extraordinary results. In fact, the knowledge of grazing stewardship

at Stavely has been instrumental in developing the good stewardship implemented by producers that conserves valuable Foothills fescue grasslands.”

The new deal will ensure this valuable research continues, said Edward Bork, director of the Rangeland Research Institute at the University of Alberta.

“If we didn't have that agreement in place, those long-term studies would disappear,” he said.

“In agro-ecological work, the biggest payday comes when you run studies for five, 10, 20 years because you get the accumulative respects of how the ecosystem is responding, how the carbon is responding, how the biodiversity is responding, and so on.”

The ranches are utilized by local producers under grazing leases and they will continue to be full partners, he added.

“When we go in as researchers, they know what we're doing, why we're doing it, and we have the opportunity to extend our results back to those same producers or the local rural community,” said Bork.

Stavely and Onefour will now be additional sites for research started at other university locations.

“We are now diversifying the work we are doing elsewhere,” said Bork, “for example, at Kinsella and at Mattheis (research ranches) where we are looking at drought effects and how that affects everything from grassland productivity to grassland health to greenhouse gas uptake.”

The sites will also be used for teaching students about topics such as grassland ecology, wildlife management, carbon sequestering and storage, impacts of climate change on rangelands, land reclamation, and grazing systems.

akienlen@fbcpublishing.com

Believe it or not — urban men are in better health than farmers

Stress and constantly working take their toll, but there's a free and proven program that helps farmers enjoy healthier, better lives

BY JENNIFER BLAIR
AF STAFF / MEDICINE HAT

You take good care of your land, your equipment, and your animals. But do you take the same care with your own health?

Farmers tend not to think of themselves as a ‘tool’ that needs regular maintenance, says the program manager of Sustainable Farm Families Alberta.

Combines, for instance, go into the shop before every harvest where mechanics “do a pretty full assessment — they check all the belts and make sure all the fluids are good,” said Jordan Jensen.

“We need to do the same thing with our bodies once in a while. We don't need to wait until something is broken to fix it,” he told attendees at the Farming Smarter conference last month.



The Sustainable Farm Families program offers free health assessments and education to farmers across the province, said project manager Jordan Jensen.

PHOTO: JENNIFER BLAIR

“It doesn't matter if you lose your leg in a grain augur or to diabetes. Ultimately, it's going to have the same impact on your farm.”

The Sustainable Farm Families

program is a little like that annual maintenance — but for the people who work on the farm. Launched in 2014, this free program aims to “increase awareness about the human resource on the farm.”

“The aim is really to provide farmers, their employees, and their families with tools, techniques, and strategies so that they can better and more effectively manage their health, well-being, and safety,” said Jensen.

And right now, that awareness is lacking, he said.

“One of the questions we like to ask participants is, ‘Who has a healthier lifestyle — city people or rural people?’” he said.

“Almost always, people say farmers. We have fresh air, we're outside, we're working all the time, and we don't have all the stress of driving on the Deerfoot.

“These are valid points. But what we've found is that life

expectancy in rural populations in Alberta tends to be about three years less for rural men than men in the city.”

That's because rural areas have “significantly higher” incidences of cardiovascular disease, cancer, and injury rates than urban centres. Quality of life also deteriorates more quickly for farmers than it does for urbanites, he added. “They may live a little bit longer, but they're also living a little bit healthier.”

But Jensen gets “a lot of resistance” from farmers when he talks about these statistics.

“They think we're twisting the numbers,” he said. “But what we've learned is that the rural population — especially here in Alberta — is at a bit of a disadvantage. We don't have the same resources that we need to take care of our health that are available to our counterparts in the city.”

Risk factors

So why are farmers at greater risk than their urban counterparts, despite the benefits that come with living and working on the farm? Well, living and working on the farm comes with its own problems.

“It's not really through any fault of our own. This is just the nature of our lifestyle and the world that we live in,” said Jensen.

Long hours are part of the problem.

“Farmers live at work. Their farm is right there. They look out the window and see the herd or the crop or things that need to be done,” said Jensen.

“A farmer doesn't just get to say, ‘I'm going to take the weekend off.’ City people have traditional 9-to-5 jobs, and for the most part, farmers don't have that luxury.”

Stress levels tend to be higher, too.

URBAN MEN ▶ page 3

Want to keep those resolutions? This young man knows the secret

Future paleontologist Holden Heppler has the recipe for achieving goals: purpose, passion, and a community of supporters

BY JENNIFER BLAIR
AF STAFF / MEDICINE HAT

With holiday dinners behind us and a fresh year ahead, our minds often turn toward our New Year's resolutions — those promises we make (and just as quickly break) to do better this year.

Well, 16-year-old Holden Heppler has a surefire way to stick to those resolutions.

"There's one road to success, and that road is hard work," said Heppler, a 4-H member who recently shared his words of wisdom at the Farming Smarter conference.

Of course, it's a route with frequent roadblocks named procrastination.

"Everyone does it — putting off things until the last possible moment so you can focus on those more important things, like Netflix or that cute video of a cat playing a piano," said Heppler.

"Well, today, I'm here to tell you why you shouldn't procrastinate and get out there and do something you believe in."

Heppler has perfected a "three-step method for removing procrastination from your life and becoming a hard-working, goal-orientated individual."

The first step is finding your purpose. "Find what makes your fire burn, your clock tick, your heart beat," he said. "Make every task and goal orientated to that."

That purpose is different for everyone, he added.

"We all have that fuel to fight for something. This passion burns deep within our veins," he said. "For some people, fighting for equality like Martin Luther King Jr. did is the most important thing in their life. But to others, it might be as simple as being a good father to your son."



He's only 16, but Holden Heppler has spent nearly half of his life working towards his goal — and he's got a simple three-step process for overcoming procrastination. PHOTO: JENNIFER BLAIR

Heppler's dream is to be a paleontologist and that goal has been his driving force since he was nine years old.

"Every night before I went to bed, I would read a book about dinosaurs so that I could prepare myself for that specific job."

He also makes "every meaningless task" part of achieving that goal.

"I could be writing poems or drawing in Language Arts, and those things are two things I hated," said Heppler. "At age nine, I would make them dinosaur related so that not only would I want to finish them, but also to lead me to my end goal."

Heppler now works at the Royal Tyrrell Museum of Paleontology in Drumheller — "a huge opportunity" that wouldn't have been possible without his passion.

Once you've found your purpose, step two is getting involved.

"Whether it be rallying at corporate buildings for equal pay or watching your son in the playoffs, when you find your passion, make sure you do everything you can to put your heart into it," said Heppler.

People tend to get "turned off" at this point because they're usually starting "at the bottom of the totem pole," he said. "But you must never stop."

"Wayne Gretzky wasn't doing slapshots out of the womb," said Heppler. "You need time to grow, mature, and perfect your interests. So don't be discouraged if your fundraiser was a flop or you didn't get that job."

"Perfect your interests, because there's never been a success story for someone who hasn't tried."

One of the reasons people procrastinate is because we're "inherently afraid of failure."

"The only thing stopping you from success is the barriers you've put in front of yourself," he said. "Once you get past this fear of failure, your goals become a lot easier. You're more willing to take risks and get involved."

And the final step on the road to success? Having friends and allies.

"A huge part of achieving your dreams and stop procrastinating is by creating a support group of peers, friends, and co-workers — these people can help you through times of weakness," he said.

"When you want to go to the movies instead of study; when you want to have that slice of pizza instead of sticking to your diet; these friends, co-workers, and peers will help you through those tough times."

And make sure you tell them — and everyone — about your passion.

"Scream it from the rooftops. Tell everyone you know about it. Make it feel like what you're doing is worthwhile. That will help you keep on track for your goals."

Heppler isn't guaranteeing his three-step method will work for you. You'll need to do the hard work yourself, he said.

"But it can at least make you say you tried."

jennifer.blair@fbcpublishing.com

URBAN MEN ▶ from page 2

"We can't control commodity prices, the price of fertilizer, or the weather," he said. "There's a lot of stress that farmers have to deal with that city people don't."

On top of that, farmers don't have paid sick leave or easy access to medical services, so their attitude toward health is different than people living in urban centres.

"Farmers are notorious for being tough and thick skinned. We don't go to the hospital for anything," said Jensen.

"I put a nail through my hand? Well, pull it out — what are you waiting for? Farmers tend to treat themselves instead of seeking medical attention. Oftentimes, that's because it takes an hour to get to the hospital, and then when you

get there, you're waiting. Half the time, a farmer goes to a hospital that doesn't even have an ER."

Living in the country also means help doesn't arrive very quickly if there's an accident.

"If you roll your car on the Deerfoot, people will know. If you roll your car on the back 40, it will take a while for people to know, and in some cases, that's too long."

Help is close at hand

The Sustainable Farm Families program was designed to address some of these problems, said Jensen. When farmers sign up for the program, they commit to three years of annual health assessments and set goals to improve their lifestyle over that time.

"Over these three years, they're able to track and see how well

they've done. And what we've been finding is that people have been making improvements from year to year."

The annual health assessment gives producers "a snapshot of their current health status," including their body composition, muscle mass, bone density, oxygen saturation, blood sugar, blood pressure, cholesterol, vision, and hearing.

Through these assessments, the program has found that 71 per cent of farmer participants are classified as overweight and 16 per cent of those are classified as having secondary obesity.

"We've also found that 58 per cent have a metabolic age that's at least 10 years older than their actual age," Jensen added. "That's an eye-opening experience for them. That's

partly what motivates them to make a lifestyle change."

During the workshops, farmers also learn about nutrition, fitness, mental illness, and personal action planning.

"Over the three years, they get this education so that they're then empowered to take action on these numbers that they're given in their health assessment," said Jensen.

"We want them to set goals and create an action plan for where they want to be next year and what they're going to do to accomplish that."

And everything is related back to the farm, he added.

"For instance, did you know the heart pumps 32 million litres per year, and that equates to 1.2 million bushels of blood?" he said.

"We want them to be able to make

the connection and understand, 'I've only got this one heart and it does that every day?'"

"How many pumps do you have on your farm? How often do you have to do maintenance on them? When was the last time you did maintenance on your heart?"

Putting health into terms like that is often a "lightbulb" moment for farmers, he said.

"We find that farmers are reluctant when they show up to the workshop — 'I'm here because my wife made me or because my boss told me to.' But by the end of it, they're always quite appreciative."

For more information, go to www.abfarmsafety.com or contact Jensen at 403-752-4585 or j.jensenSFF@abfarmsafety.com.

jennifer.blair@fbcpublishing.com

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EDITOR

Glenn Cheater
Phone: 780-919-2320
Email: glenn.cheater@fbcpublishing.com
twitter: @glenncheater

REPORTERS

Alexis Kienlen, Edmonton
780-668-3121
Email: akienlen@fbcpublishing.com
Jennifer Blair, Red Deer
403-613-7573
Email: jennifer.blair@fbcpublishing.com

CIRCULATION MANAGER

Heather Anderson
Email: heather@fbcpublishing.com

PRODUCTION DIRECTOR

Shawna Gibson
Email: shawna@fbcpublishing.com

DIRECTOR OF SALES

Cory Bourdeaud'hui
Email: cory@fbcpublishing.com

NATIONAL ADVERTISING SALES

Jack Meli
Phone: 647-823-2300
Email: jack.meli@fbcpublishing.com

LOCAL ADVERTISING SALES

Tiffany Taylor
Phone: 204-228-0842
Email: tiffany.taylor@fbcpublishing.com

CLASSIFIED ADVERTISING SALES

Mitchell Tityk
Phone: 1-888-413-3325 Fax: 204-944-5562
Email: classdisplay@fbcpublishing.com

ADVERTISING CO-ORDINATOR

Arlene Bomback
Phone: 204-944-5765 Fax: 204-944-5562
Email: ads@fbcpublishing.com

PUBLISHER

Lynda Tityk
Email: lynda.tityk@fbcpublishing.com

EDITORIAL DIRECTOR

Laura Rance
Email: laura@fbcpublishing.com

PRESIDENT

Bob Willcox
Glacier FarmMedia
bwillcox@farmmedia.com
204-944-5751

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or U.S. subscribers call

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OPINION



Now's the time for a review in rhyme

A lyrical look at the year that was, and marketing ideas that just can't miss

BY JOHN MORRISS

Alberta Farmer's in good hands, and I don't mind crediting That the staff is still doing a great job of reporting and editing But while kids these days can tweet fairly tersely They just don't have what it takes to match two words versely So when it came to performing the annual requirement To review the past year in rhyme, they pulled me out of retirement

The old guys at coffee in this part of the nation Used to trade "It was sooo... dry" tales about lack of precipitation But when today's future old farmers sip lattes from fresh-roasted beans They'll talk about how wet it was way back in the teens Says one, "Remember 2016, and that three-month typhoon "To combine my flax I needed to install pontoons." Says another, "At least you had a crop to give you the troubles "Why, when I tried my air seeder all it did was blow bubbles" A third says, "I was paddling out in my pasture, and what did I see "But gophers mating with squirrels, and nesting in trees."

Most farmers are finally convinced that all of that harpin' Was right about filling the atmosphere with way too much carbon Climate change may be fine if longer-season crops you are able To grow, but the flip side is that things are much too unstable That extra rain may help grow a bin-buster crop to haul in But it's a bust if you can't harvest the buster to put in the bin

Since farmers have the most to lose from carbon pollution It's up to them to be part of the climate-change solution It's time to take better care of the topsoil by filling it With all that carbon it lost by excessively tilling it Some say that to fight climate change we should be starting To have fewer bovines with all their burping and farting On the contrary, I think the best way for more carbon storage Is to eliminate tillage and grow more grasses and forage When you harvest with livestock it's not so bad if it's wetter And not only that, grass-fed meat tastes much better More forage would also help with that problem endemic Of weeds' increasing resistance to just about every chemical Last winter I attended an agronomical convention On rotating your herbicides for resistance prevention It made me think fondly of back in the day When your choice was just between 2,4-D and MCPA Now you've got amides, and chlorsulfonams, and metolachlor Pyrazon, hexazinone, quinclorac, desmedipham and chlopyrachlor That's confusing enough, and you want to throw up your hands When you learn each is sold under about 12 different brands

But if you don't use them in the right order, first thing you know You'll have a wild oat that you can only kill with a hoe

Hoeing, by the way, is about the only way to manage Weeds in California crops such as broccoli, lettuce and cabbage But the thing is that most of those who are doing the hoeing Are illegals to whom Trump says, "Back home you are going" When he figures that out I'll watch with some humour Whether he caves to the complaints of outraged consumers If the prospect of higher veg prices raises their ire The wall might turn out just to be a strand of barbed wire

That's just one of my predictions; I know that you've waited For a year to hear more, and with your breath bated I've continued my Internet course studies, and now I can say That I've received my diploma as an ag adviser MBA Canola prices for instance? Well, I'd say my best call Is to wait for them to peak, and then sell it all Wheat prices? You can quote me; I really don't like them I think the decent thing would be for the buyers to hike them As for what you should plant? Well, examine each field And rotate into something different this year to ensure higher yield What should Alberta producers seed? Well, let me assure 'em It's not a good idea to plant either lentils or durum

It's not quite a wreck, but it's rather annoying To see cattle prices lower than we were enjoying I think the solution is to make marketing much slicker When selling beef, put a better name on the sticker The name "chuck" for instance makes buyers turn colder Let's change it to "epaulette" (a fancy French word for shoulder) As for the name "rump" I don't much like the sound If you called it "Derriere" you'd get a buck more a pound I'm sure this idea would work, you're welcome to use it But will retailers share the beef profits with those who produce it?

I've many more profitable ideas, but once again I fear That I've run out of space; you'll have to wait till next year Until then, on behalf of everyone here I send you best wishes for a great farming year May your calves all pop out without any assistance May your weeds all die quickly without any resistance May you have just the right balance of rain and of sun And whatever you grow, may it grade number one!

John Morriss retired as associate publisher of FBC Publishing — the parent company of Alberta Farmer and other publications — this summer.

Agricultural workers fuel the prosperity we enjoy, but are ever more scarce

BY MARK WALES AND MARK CHAMBERS

AGRICULTURE AND AGRI-FOOD LABOUR TASK FORCE

It is the holiday season, a time to enjoy dinners with family and friends and time to be thankful and proud of our world-class Canadian food system, providing us with abundant, healthy, safe and affordable food.

Canadian farmers and processors, with the help of a skilled agricultural workforce feed 37 million Canadians. We are also the fifth-largest agri-food exporter. Canadians can be proud of our Canadian farmers, processors and workers who are contributing \$100 billion and close to seven per cent toward Canada's Gross Domestic Product (GDP).

Farmers understand our food relies on people: farm and food businesses and workers who plant, grow, harvest, prepare and package Canada's delicious products. Unfortunately farmers and processors struggle to find enough workers.

Research conducted by the Canadian Agricultural Human Resource Council shows a critical gap between the demand for workers and the supply of available workers. This gap has doubled in the last 10 years to approximately 60,000 workers. By 2025, the labour

gap is expected to grow to 114,000 workers. The job vacancy rate for the industry is higher than any other industry in Canada, seven per cent.

This is resulting in \$1.5 billion in lost sales each year.

Processors in rural areas are also having critical shortages. This is in spite of vigorous recruitment efforts and wages being competitive. For example, farmers in Saskatchewan pay upwards of \$25 an hour to have someone drive a combine.

To address the labour shortage, the Agriculture and Agri-Food Labour Task Force (comprised of industry representatives from the entire value chain) has developed proposed solutions in the Canadian Agriculture and Agri-Food Workforce Action Plan to address the critical labour shortage. This Canadian employment strategy, supported by more than 77 agriculture associations, makes two key overarching recommendations:

- Increase the supply of labour; and
- Improve the knowledge and skills of workers.

The Workforce Action Plan will better connect Canadian workers with the industry through a national jobs resource centre, a national career promotion initiative, increased training to improve the knowledge and skills of agriculture and agri-food workers, a diver-

sity and inclusion initiative, commodity specific wage research, and many other concrete and achievable action items.

Farmers and processors hire Canadians first, but if Canadians are not available, our task force also proposes an Agriculture and Agri-Food Workforce Program. The program needs to allow ongoing access to seasonal workers and calls for fairness, allowing an immigration pathway to permanency for farm and food workers, along with common-sense fixes to programming that make sense for farmers, agricultural workers, and primary processors.

The federal government took its first step to fix the Temporary Foreign Worker Program (TFWP) in December, by announcing, "In order to prevent unnecessary hardship and instability for both workers and employers, the four-year cumulative duration rule (known as the 'four-in, four-out' rule) will no longer apply to temporary foreign workers in Canada, effective immediately."

Removing this rule was a long-standing recommendation of our task force, as it was creating a skills deficit for Canadian agricultural employers and it was also acting as a restrictive barrier for the pathway to permanency for farm and food

workers. This one fix helps mixed farms, beekeepers, cow-calf operations, cattle feedlots, hog farms, apple growers, maple syrup producers, grain and seed farms, and many others.

The majority of the TFWP is agriculture workers so fixing issues like this makes good sense. In fact, Canada's valued international agriculture workers make up 12 per cent of the primary agriculture workforce and they help to support 88 per cent of Canadian agriculture jobs.

Without this support, many Canadian agriculture jobs, up and down the value chain, would be in jeopardy. A functional Temporary Foreign Worker program is one that prioritizes hiring Canadians first, which allows access to international workers that in turn secures Canadian jobs; this benefits Canadian consumers and allows Canadian farmers to keep feeding the world.

While you enjoy your holiday traditions and treats, don't forget to acknowledge the good work of farmers, processors and our farm and food workers. It's their efforts that make it all so fulfilling.

Ontario farmer Mark Wales and Sunterra Farms production manager Mark Chambers are the co-chairs of the Agriculture and Agri-Food Labour Task Force.

OPINION



Small indulgences – the experience of food can be priceless

In the food business, less can be more if you understand your customer and the emotional side of food buying

BY BRENDA SCHOEPP
AF COLUMNIST

I remember a story from years ago about a family-owned ice-cream shop in a small town. Folks came from long distances for ice cream because it was so delicious. Yet, the customer had one constant complaint — there was too much ice cream in the cone!

The owners of that shop decided to listen to the client and make the cone half the size. They also rebranded their product at the same time and chose to charge twice as much for less. Can you guess the outcome? Ice-cream sales went up.

A few times I have sat in an ice-cream shop and calculated the sales per hour. It amazes me how much people will pay for ice cream. Add a dime's worth of chocolate and charge an extra dollar; add a nickel's worth of whipped cream and charge an extra \$2; add a penny's worth of candy and revamp the cone to a confection and add \$3. Now that is selling.

Ice cream is a treat for all occasions and for most children and adults it evokes a memory of summer days. In Canada, where warm days melt swiftly, each savoury moment is cherished. In winter

it is hot apple crisp with ice cream; hot chocolate and ice cream; or my childhood favourite — pancakes and ice cream. Like opening the hood on a '52 Chevy or the lid on a picnic basket, you just can't beat the FEEL of ice cream.

I think that this is a prime example of the experience economy.

We live in a time when consumers want to experience food and flavour, and have a little bit of a walk down memory lane or create a memory in their young home. On the farm, we are familiar with a huge roast with all the fixings, pies and cakes, veggies from the garden, fruit off the tree, bread fresh from the oven — all eaten around Grandma's table. For others, let us remember, it is a simpler time with fewer food blessings than we enjoy on productive farms.

Regardless of the setting, consumers have proven they are not afraid of paying more for what they want, even if there is less of it. They do this when they pick out flowers, buy a smaller but fancier car, choose a little bit of chicken that is homegrown, or pay double for organic eggs. They do it when they order a petite tenderloin rather than a huge steak or an ounce of port over a glass of wine. What drives them could be a memory, a need, the experience, or a

preference. Whatever it is, we need to find the right-size cone.

In the protein aisle, we need to provide the choices they desire such as hormone free, grass fed, free range, humanely handled, or organic. In the vegetable bin, they need to see fresh local (at least from within the province), chemical free, organic, or farmer-branded product. And that goes for fruit as much as possible, too. I do not enjoy buying an apple from New Zealand when our Canadian apples are so abundant. Nor do I fancy carrots from California when Alberta carrots are crisp and sweet. Price is not the only driver in deciding what to buy.

Think about the constant lineup at a premier bake shop. Again, the scent of fresh bread evokes a memory and the fact that it was made in your little town or down the street hugs the love-local bug. Paying \$6 for a wee bit of bread is never considered an extravagance when it meets the needs, wants, and desires of the purchaser. Part of that experience is also how we feel and what the shop looks like. Customers want to 'belong' to your foodie club, even if it is simply because your shop is cosy and has the best coffee, or because your farm is welcoming and the lamb is delicious.

My friend Henk van Dongen, an internationally renowned food and flower retail

expert, likes to tell the story of tomatoes. There are many kinds of tomatoes that one can buy, but Dutch retailers were not happy with sales, especially on those big tomatoes sold in bulk. Enter Henk who did some testing on those bulk bins of slicing tomatoes — looking at flavour, texture, nutrient profile, storability, and so on. Next he started looking at how folks could use a tomato and among the many trials he did was grilling. It turns out the ugly duckling in the tomato bin was terrific for grilling. The retail store rebranded and offered those bulk tomatoes in small packages (at double the price) as a grilling tomato. Sales went up.

I love these examples of how we can help our consumers see the possible and through the experience of food, hospitality, and environment, find a lovely price point for our products. Not every family can afford to pay more for less but there are times when helping folks understand product, presenting them with what they want, or simply ensuring that they have a memorable time is priceless.

Brenda Schoepp is a farmer from Alberta who works as an international mentor and motivational speaker. She can be contacted through her website www.brendaschoepp.com. All rights reserved. Brenda Schoepp 2015



The carbon tax is going to show up in the cost of food

Food production generates a quarter of greenhouse emissions and taxing carbon here will encourage more imports

BY SYLVAIN CHARLEBOIS
DALHOUSIE UNIVERSITY

From farm to fork, our food is responsible for around 25 per cent of the world's greenhouse gas emissions.

This is much higher than what most people would think. Whether we realize it or not, every decision a consumer makes when picking what to eat has an impact on our environment and many want to do something about it.

The federal government's carbon tax of \$10 per tonne is set to start in 2018 and provinces are expected to produce a carbon price plan. Some have claimed energy costs would rise because of a carbon tax, but little attention has been given to what would happen to food costs.

Canadian grocers will likely continue their quest for affordable foods to offer to Canadians. The concern, of course, is that Canadian goods with a carbon tax may become much less attractive from a price point perspective. This would encourage grocers to import more foods, regardless of the state of our loonie — a trend we have seen over the last few years.

While food prices will likely

increase over the next few years, carbon tax will hardly be to blame since importers have choices to buy products in areas where carbon performances are less established. More imported foods will likely find their way to Canadian grocery store shelves. Unlike what doomsayers are advocating, taxing carbon won't make more Canadians food insecure, but the issue is more about food sovereignty for certain sectors. In other words, the carbon file is filled with food economic nuances.

Timing is not great either. Prime Minister Justin Trudeau's announcement about a carbon tax occurred weeks before the U.S. election. Now that we know who the next tenant is in the White House come January 2017, such a move for our Canadian agriculture and food sector is worrisome. With Trump at the helm, we are likely to see the U.S. remaining idle on climate change mitigating policies. This would make our agri-food systems much less competitive. Coupled with a possible reduction in U.S. corporate tax rates, a new carbon tax on our agri-food companies could isolate Canada as the only green-focused economy in North America.

To make matters worse, our

food economy remains vulnerable to currency fluctuations. When our loonie tanks, food prices go up. However, we have seen many new greenhouse projects emerge in recent years, particularly in Ontario, potentially making the Canadian market much less susceptible to abrupt retail price fluctuations. This is welcomed news but a price on carbon may stop these initiatives from coming to fruition.

Let's be clear though. Working to protect the environment only makes sense, but we need to move forward with great caution.

To give market currency to carbon is a necessary step towards a more sustainable food system, but our policies must capture our global reality. Due to the aggressive campaign on carbon here, firms could relocate to the detriment of our economy. In food processing we have seen more than 150 firms close or relocate since 2008 in Canada, affecting almost 30,000 jobs. The most recent case is the Mondelez plant in Montreal which eliminated more than 400 jobs.

In food, a carbon tax will clearly discriminate against certain agricultural sectors. A recent EU study estimated a carbon tax would increase prices

between 15 per cent and 40 per cent at farm gate for the most greenhouse gas-intensive foods such as beef, lamb, and dairy products. Thus, it would be easy to speculate that consumption would fall by as much as 15 per cent for some products.

The result would affect major sectors in our agricultural economy. According to the same study, health gains could be made since some of these products are deemed unhealthy if not consumed in moderation. A win-win perhaps, but consumers should be given the opportunity to adapt as consumption habits are often difficult to break.

Unlike the cap-and-trade solution, for example, a carbon tax provides certainty on how carbon is priced but the amount of emissions reductions is always difficult to predict. Mixed results from British Columbia's carbon tax since its inception in 2008 is one example. And who knows what could happen to funds given to what some may consider as the Ottawa budgetary black hole. However, it is the most effective instrument the federal government can use to entice provinces to act.

Provinces where agriculture is a significant part of the economy could opt for a cap-and-trade

scheme which would guarantee emission reduction and reward good stewardship. For example, with no-till farming, precision agriculture and better equipment, Saskatchewan annually sequesters about nine million tonnes of carbon. At \$50 a tonne — which is the federal carbon price set for 2022 — that sequestered carbon would have a value of more than \$450 million. Beyond just taxing carbon, a hybrid approach could be substantially more powerful.

In the grand scheme of things, it boils down to one thing: Our current food consumption trends in Canada are for the most part, environmentally unsustainable.

The price we pay at the grocery store does not reflect the true cost of food production and distribution. We all know that. So doing nothing is no longer an option and most would recognize that the writing is on the wall. However, given that we live in a borderless world Ottawa should also recognize that not everyone on Earth wants to save the planet.

Sylvain Charlebois is dean of the faculty of management and a professor in food distribution and policy at Dalhousie University.

2016 RECAP ▶ from page 1

excited going into the year. The United Nations designated 2016 as the International Year of Pulses (IYOP) and Ammeter predicted that shining the international spotlight on dried legumes would pay dividends for years and decades to come.

“As IYOP draws attention to big global issues like nutrition, food security, and environmental sustainability, this crop — which is a Canadian success story — is only going to get more attention, get more agronomic research, and more breeding research,” she said a year ago.

One year later, Ammeter said that IYOP “wildly exceeded all expectations.”

About 55,000 people took the Pulse Pledge — a vow to eat pulses at least once a week for 10 weeks — and social media interactions and mentions using the #lovepulses hashtag reached an astonishing 3.1 billion interactions.

“That’s unbelievable. Our goal was 750 million and we far exceeded that,” said Ammeter.

It’s a strong indicator that people are figuring out what pulses are, how to use them, and why they’re good for you.

“We have a sense that consumption has increased, but we’re waiting for the next consumer research information to come to really have hard-and-fast numbers,” said Ammeter.

But she expects growing consumer awareness will mean greater demand and more pulse acres in the province.

“Consumer demand will definitely cause more to be planted. We’ve seen that with chickpeas and hummus. Where North America used to be net exporters, now we can hardly supply the North American hummus market, which is a great problem to have.”

That’s going to happen with other pulses, too, she predicted, although a good chunk of that could be using pulse fractions in things like ravioli, chips, and even dog food.

“That is going to result in not only more demand, but also better research and better agronomics.”

STRIFE AND ANGER GIVE WAY TO CONSULTATION

When it came to workplace health and safety, it seemed most everyone took a breath and stepped back in 2016.

The angry demonstrations and rushed passage of Bill 6 at the end of 2015 set the stage for even more bitter confrontations. But the unprecedented furor prompted the province’s farm organizations to do something equally unprecedented — form a coalition that could speak with a unified voice for virtually every producer in this big and diverse province. And so 2-1/2 dozen farm groups, representing nearly 97 per cent of producers, created the Alberta Agriculture Farm and Ranch Safety Coalition.

The new group, known as AgCoalition, wasn’t exactly thrilled with the terms of the consultation process and even less so about the province’s determination that the right to unionize would be mixed in with things such as occupational health and safety rules. But its top priority was being part of the process, and also educating non-farmers on the six committees (known as tables) that would make recommendations on specific rules and regulations that would give teeth to the *Enhanced Protection for Farm and Ranch Workers Act*.

“In some areas, we did see some



The anger hasn’t gone away but demonstrations gave way to negotiations in 2016 as an unprecedented coalition of farm groups worked behind the scenes to ensure health and safety rules would work on farms. FILE PHOTO

movement and we did get to resolutions,” Gord Winkel, AgCoalition’s interim executive director, said in November.

“In other areas, it was clearly not acceptable to the industry to move forward with certain things.

“Fortunately, the process allowed for that, and we were able to show that there was a lack of consensus and basically make the agriculture sector’s intent known.”

In the win column was an agreement that farms couldn’t function if they had to live with the rules governing hours of work and overtime that apply to other sectors. Those rules limit the workday to 12 hours with 30-minute breaks every five hours, and impose overtime after 44 hours in a week. Instead, the committee agreed, farm workers should get a minimum of four days off for every 28 days worked and families should be exempted entirely.

AgCoalition members are also being proactive when it comes to providing safety education and reminding their members that, in Winkel’s words, “If you don’t do it your way, it will get done to you.”

Still things may flare up again in the coming year.

There were heated discussions at the table on labour relations, with everyone eventually agreeing to disagree on unionization. It’s easy

to imagine a push to unionize a farm, ranch, or feedlot becoming a flashpoint in the coming year. And the number of farm employee injury claims to the Workers Compensation Board were also up significantly, which raises the prospect of higher WCB premiums at a time when both grain and livestock sectors are trying to cope with lower prices.

But it’s worth remembering what, at the time, may have seemed an overly optimistic appeal from farm groups a year ago.

“While we have not been provided the opportunity to influence the process to this point, we ask for your patience and support as the work begins to design the legislation that directly affects your operation on a day-to-day basis,” Alberta Barley Commission said in a release a year ago.

“Although we understand the frustration felt by producers, we are optimistic that the upcoming consultations can be meaningful.”

THE LESSON FROM 2016? EXPECT THE UNEXPECTED

Well, at least we didn’t have a drought — and we’ll be starting off with great soil moisture conditions.

That would sum up the optimist’s view of a year that many would rather forget. But 2016 offered a classic reminder of both Mother Nature’s ability to make a U-turn and the need to bear that in mind when making a cropping plan.

Drought was indeed on everyone’s mind as the winter that barely was came to an end and producers wondered whether the old saying, ‘seed into dust and bins will bust,’ would prove to be true in 2016. Forecasts of the warmest spring on record also prompted warnings that an invasion of grasshoppers and other pests was on its way.

But crops germinated and insect Armageddon was averted (although a plague of gophers hit some parts of the province). At one point, things looked so good, there was talk that the harvest would rival 2013’s all-time record, which raised concerns that Prairie farmers were in for a repeat of that year’s grain transportation gridlock.

And then the heavens began to open up. In June, it was ‘million-dollar rains.’ In July, ‘OK, we’re good now.’ From August onwards, it was just, ‘You’ve got to be kidding.’

Of course, not all precipitation falls as rain. If you avoided a serious encounter with the Great

White Combine, consider yourself lucky. Although the province didn’t set a record for hail claims last year, Agriculture Financial Services Corporation has paid out \$355 million in hail claims. And no sooner had the summer hail season ended when winter made an early visit to many parts of the province with some September snow.

In the end, many producers saw their best harvest weather in November and set personal records for their longest-ever harvest season. But many, many others still have crops in the field. And it’s not just that that grain will be worth little or nothing, it also means some farmers will have to start spring in the combine before they can start seeding.

On top of all that was the fall in global grain prices.

Again the optimist can point to the low Canadian dollar as a shield, and it’s a good point — many American grain farmers are having very serious discussions in their lender’s office these days. But if oil prices continue to rebound, there will be less shielding in 2017. And huge grain and oilseed supplies around the world mean there’s little prospect of prices rising significantly any time soon.

If both looking back and looking forward seems a little depressing, remember, this is the time of year when there’s a lot of money-making advice on offer. As always, conferences and workshops will offer top-notch presentations on topics such as marketing and grain drying, as well as predictions that prove prescient (fusarium’s westward march and the threat of aphanomyces in peas were two from a year ago).

But perhaps the greatest lesson from 2016 is ‘expect the unexpected.’ And who knows? Maybe the 2013 harvest record will be broken this year and the biggest dilemma will be where to find enough storage for it all.

A GOLDEN OPPORTUNITY, BUT WILL IT BE SEIZED?

Wouldn’t it be nice if people were always complimenting you on your work?

That actually happened a lot to beef producers in this province in 2016.

“You are making the most advancements when it comes to



Excessive moisture — including snow in September — wreaked havoc on this year’s harvest, which on many farms didn’t end until November. FILE PHOTO

sustainable beef today," Cameron Bruett, JBS's top sustainability official, proclaimed at the Canadian Beef Industry Conference in Calgary this summer.

Another major vote of confidence came from the Global Roundtable for Sustainable Beef — one of the leading forces in the whole sustainable ag movement — when it invited top industry officials from around the world to Banff. Once again, the Canadian beef sector was showered with praise.

But for all that's been accomplished, the past year showed more needs to be done. Two sto-

ries from 2016 — one that made national headlines and another barely noticed — put this into sharp relief.

Earls Restaurants thought it was giving customers what they wanted when it decided to switch to 'Certified Humane Beef.' The problem, of course, was that involved getting that meat from the U.S. and that didn't sit well with patriotic Canadian steak lovers.

But another proponent of certified beef with considerable more marketing expertise came to Alberta to say that producers can make money by giving people

what they want. John Stika, president of Certified Angus Beef, told a Livestock Gentec conference that the brand's success — more than a billion pounds of beef sold annually — stemmed from listening to what consumers want and delivering it.

Could Canada do the same by positioning its beef as a premium product with the highest environmental, animal welfare, and safety standards in the world?

The pieces are there. The past year saw the successful completion of McDonald's "verified sustainable beef" pilot, the hand-over to the Canadian Round-

table for Sustainable Beef, and the launch of the VBP (Verified Beef Production) Plus program. There's also a robust traceability network; the BIXS carcass data and information-sharing system; and an extensive body of scientific work that shows beef production on grasslands produces environmental benefits.

Putting those pieces together and creating demand for a Certified Canadian Premium Beef brand will take a lot more time and effort. However, with cattle prices once again in the doldrums, the coming year may see more people in the sector wanting to leverage the advantage that Bruett says Canadian beef has.

ALMA had its critics when it was created, who didn't see the need for another government agency. But its performance won over some of them, including Alberta Beef Producers.

"It made some very good investments in projects and initiatives that will serve the industry well in the future," said Rich Smith, ABP executive director. "It has made a difference."

"It's been good for agriculture and for the livestock side of the business," added Ray Price, president of Sunterra Meats. "It was becoming a place where everybody felt they could go to get some information and possibly some support for unique Alberta products."

The story for another government agency — Agriculture Financial Services Corp. — was a lack of information. Apparently nobody knew that large sums were being misspent until a whistleblower alerted the government.

The province's chief internal auditor investigated and found that over a five-year period nearly \$900,000 had been spent on travel, accommodations, mileage, meals, hospitality, conference fees, and other similar costs. This included limousine travel and luxury box tickets at Edmonton Oilers games and more than \$340,000 on travel to meet with reinsurance companies even though the agency contracts brokers to deal with reinsurers.

The auditor's report prompted the province to dismiss the entire board in June and suspend three top officials at the agency, including its president who was earning \$670,000 annually. A trio of interim replacements is currently overseeing the agency as the slow process of appointing a new board grinds on.



Canada leads the world when it comes to sustainable beef, but creating a 'Certified Canadian Premium Beef' brand will take a lot of effort. FILE PHOTO

A TOUGH YEAR FOR AFSC, A LAST ONE FOR ALMA

It's been a heck of a ride," said chair Dave Chalack when the Alberta Livestock and Meat Agency held its final Future Fair conference in October.

There was widespread disappointment (and considerable irony) that an agency created to help diversify the provincial economy should fall victim to government cost cutting prompted by the latest oil industry downturn.

The province had announced in its spring budget it would dissolve ALMA and have civil servants take over its duties — a move it said would save \$8 million annually.

But Chalack, a veterinarian and president of Rocky Mountain Holsteins, argued the agency's funding (\$25 million in its last year) was money well spent. His tally was that \$230 million in government funding (dispensed since 2008) had leveraged nearly triple that amount from industry for 1,400 projects that created about 15,000 jobs.

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CATTLE ▶ from page 1

former manager of Canadian Cattlemen's Association and Ontario Beef Producers.

Since 2009, the Canadian beef herd (total cows and calves) has declined by more than a million animals. It has also lost about 20 per cent of its producers in recent years.

"There's been an amazing cutback, and there's been very little comment about it," said Gracey.

Every industry needs new blood and if the cattle sector wants to attract and retain young producers, it "has to create the conditions to make the industry profitable," he said.

"That is back to mundane things — like changing the grading system. Let's do some things about the pricing system," he said. "It's not about being a missionary and getting people back into the industry. They're not going to do it unless it seems to be profitable."

The National Beef Strategy — unveiled with considerable fanfare two years ago — is supposed to do just that. It set specific targets to boost the bottom line and laid out a series of steps, such as positioning Canadian beef as a top brand in foreign



"There's been an amazing cutback (in herd numbers), and there's been very little comment about it."

CHARLIE GRACEY

markets and lowering production costs through R&D.

But "things aren't happening fast enough," said Gracey.

"We want to expand and diversify our export and still we're sending about 95 per cent of all

our exports to the States. I don't think the strategy is working. I don't even know what it is."

Funding needed

Even Dave Solverson, co-chair of the National Beef Strategy, admits the ambitious plan has stalled somewhat.

But the problem has been a lack of funds to move ahead with the strategy's "four pillars," said the Camrose-area cow-calf producer and feedlot operator.

Each of those items — such as improving productivity efficiency by 15 per cent by 2020 — came with a detailed series of steps, he noted. And each step costs money to enact.

"The groups that worked on the four pillars estimated the cost to execute it and that's where the recommended (national checkoff) increase to \$2.50 a head (came from)," said Solverson, who is also past president of the Canadian Cattlemen's Association.

"I do feel, and the groups that have worked on it feel, that with the increased funding, the strategy could move forward."

The sudden and sharp downturn in cattle prices has also hurt, he added.

"It sort of emphasizes the rea-

son for a good strategy going forward, diversifying the markets, and things like that," said Solverson. "My point is that until all the provincial organizations agree — which they are very close to doing — then we can't move ahead with the national checkoff increase and I believe that will make the strategy attainable."

And growing the herd is vital, he added, pointing to the risk of losing a major packing plant if numbers fall too low.

"I would like to encourage producers to maintain and even expand their herds because I believe that there is a long-term positive situation ahead of us," he said. "If we shrink much from our current 3.9 million cows nationally, we stand to lose infrastructure."

Pay for quality

Gracey would also like to see the herd grow, but says the "bloody reality" is that Canada will never be a major player in the commodity beef world. The alternative is to be known for quality but the current system discourages that by rewarding quantity, he said.

"People are overfinishing the cattle to maximize the dollars,"

said Gracey. "It makes sense (because feed grain is cheap). I blame industry leadership for this. There is an answer to this, and the answer would involve a pricing system that pays equal weight to quality and quantity."

For this to happen, the grading system needs to be revamped and prices for cattle that yield superior-quality beef need to increase, he said.

"We now have capability to measure the yield of a carcass, not just 1, 2, or 3, but as a percentage figure," he said. "If we can do that, we can pay for it on that basis, the way dairymen are paid for milk (butterfat)."

Producers could do better but there's no financial incentive.

"It's not the individual producer's fault because they have to produce to the reality of the current price of grain, current grading system, and current pricing system."



"The groups that have worked on (the National Beef Strategy) feel that with the increased funding, the strategy could move forward."

DAVE SOLVERSON

Solverson thinks the overfinishing problem will sort itself out.

"If plants sent a strong market signal that they would discount heavily finished animals, then the industry would respond very quickly," he said. "Up until now, I think part of the problem — and it happened in the U.S. as well as here with the market being so strong in 2014 and 2015 — (that) people just kept adding on the pounds and the carcass weight went up."

However, carcass weights are already coming down and will improve further, he said.

And although well off their recent peak, cattle prices are strong, he added. The biggest barrier to young producers is the cost of land and livestock, but Solverson said that can be overcome with some innovative thinking.

"We have a lot of producers who are at the age where they want to exit the industry," he said. "A lot of times they want to hang on to their land instead of just renting it out to be turned into a grain farm."

"We could encourage partnerships with young people who are interested in starting out. It's really prohibitive to invest in land and livestock needed to have a viable operation. There's opportunity to partner with producers who are thinking of retiring."

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Drones are amazing but you still need boots on the ground

But drones may soon do everything from measuring growth and weeds to deciding whether an area needs replanting

BY ANGELA LOVELL
AF CONTRIBUTOR

There's no shortage of technology available to help researchers, agronomists, and farmers scout their fields.

From satellite imagery and unmanned aerial vehicles (UAVs or drones) to smartphone apps, there are plenty of tools out there. Just don't expect them to replace boots on the ground any time soon.

The limitation of current remote sensing technology, such as satellite and aerial imagery, is that it can only detect variability in the field. The cause of that variability still has to be ground truthed using traditional scouting methods, such as visual inspections, soil and tissue samples, and still relies heavily on the wisdom and experience of the person doing the scouting.

"The challenge isn't collecting the data but the interpretation," Ignacio Ciampitti, crop production specialist with Kansas State University, said at a recent conference in Winnipeg. "We are not removed from the system. All these technologies are tools, but we need people, they are the thinkers who will go back to the field and decide where the problem is coming from."

Ciampitti showed images of a winter wheat field from a drone flown at low altitude to give a reasonably high-resolution image and create a normalized difference vegetative index (NDVI) map that showed weeds growing outside the rows.

"But we can't identify the weed species — it will need a person to go out in the field to do that," said Ciampitti.

One of the biggest problems farmers face today is that they have too much information, added Ciampitti.

"We have a responsibility to simplify and integrate the data, and develop that into tools so advisers and farmers can start taking action," he said.

Research is being conducted into using UAVs for weed identification, biomass and grain yield estimates, identification of on-farm production problems, detecting and measuring herbicide drift, to help with crop replanting decisions, detecting plant height, and crop uniformity, measuring canopy temperature and crop growth, as well as detecting crop stress and pests.

As more of the information that UAVs collect is integrated with the information coming from other sources, such as traditional scouting, soil data, pest



Unmanned aerial vehicles offer great promise, but aren't going to replace old-fashioned scouting just yet. PHOTO: BRANDON GIBB

detection networks and forecast maps and provincial databases of insects, weeds and diseases they will become a better diagnostic tool for producers.

Center Field Solutions, an Alberta company, does a lot of on-farm research using various technologies like yield mapping, and UAVs.

"Our clients are good scouts too," said Kelly Boles, owner and president of the company. "They know the history of their fields, they have the expertise, and we are trying to channel a strategy, and work with them and industry to come up with really good solutions in field," said Boles, who added the biggest challenge is processing and analyzing the huge amount of data they collect to provide an outcome for their clients.

Real-time agronomy

The most important technological advancement in scouting is connectivity in the field via mobile devices such as smartphones, laptops and tablets, said Boles.

"To be able to document and use apps in the field in real time is huge and it's sped things up for us," he said. "We can tweet or Google a picture and it's amazing how quick the interac-

tion is. It's pretty exciting how we can evolve these tools."

More and more agronomists are going paperless, using mobile devices to take scouting pictures and correlate zone maps and soil and tissue sample data using apps to create reports for their clients about crop seeding, fertility and spraying decisions.

CropPro Consulting in Saskatchewan has six trucks on the road with specialized mapping equipment including computers, auto steer, and a battery-powered, in-field soil-sampling unit, which uses GPS positioning and an automatic probe to collect soil samples.

"We are fully connected in the sense that our agronomists can use our app in the field on any mobile device to do recommendations and scouting," said Cory Willness, CropPro president. "Within each field we have maps of everything that farmers can load up on their smartphone — electrical conductivity maps, elevation, flow accumulations, drainage files, anything they want."

Around 60 per cent of agronomists and close to 50 per cent of Ontario producers are using apps to make management decisions on their farms, according to an Ontario-based survey.

It's likely many of them are using Pest Manager — a free app launched in 2015 with funding provided by the Grain Farmers of Ontario. Pest Manager helps producers identify weeds, insects and diseases right in the field, and suggests options to manage or control them.

Ontario provincial weed specialist, Mike Cowbrough demonstrated the app's key features at the conference, including the interactive pest identification key. Users filter according to crop type and choose from menus of different taxonomic traits about the pest or weed species — or the symptoms of diseases — that they are looking at in their field. The app identifies it and offers a menu of control options that can also be filtered by different variables such as crop system (GMO, non-GMO or organic), application timing, crop stage, and the presence of herbicide-resistant weeds. It contains economic thresholds and also offers information about natural enemies of problem pests that may be present. Pest Manager also has an extensive pest library with Frequently Asked Questions that is its most used feature. The app is updated in real time with the latest information about new products or emerging pest issues.

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EUROPE FORECAST: WHEAT UP, DURUM DOWN

European soft wheat output should jump in 2017 after being hammered by weather last year, says consultancy Strategie Grains. Its first forecasts production at 145.0 million tonnes, versus about 135.9 million in 2016. The output rise would be entirely due to increased yields, with the sown area seen stable. Top producer France, hurt by heavy rain last spring, should see the biggest rise. But durum output is expected to fall by nine per cent to 8.7 million tonnes. Italy and Greece are both expected to harvest much smaller crops after exceptionally high yields in 2016, it said. — Reuters

BRAZIL POISED TO BOUNCE BACK IN 2017

It's been a dismal year for Brazilian grain exports, but that could change in a hurry. The No. 1 and 2 shipper of soybeans and corn, respectively, was hit by drought in 2016 and had much less supply to export than usual. Shipments for corn and its byproduct, ethanol, were down by nearly 80 per cent in October and November versus a year ago. But now with the drought of 2016 mostly in the rear-view mirror, record corn and soybean crops are a real possibility this year. And the country has made great progress in dealing with its notorious transportation and logistical issues at ports. Analysts are predicting record exports of soybeans and the second-largest-ever exports of corn. — Reuters

MARKETS



Statistics Canada lentil numbers confirm trade suspicions

Despite terrible weather there's plenty of supply which doesn't bode well for markets

BY JADE MARKUS
COMMODITY NEWS SERVICE CANADA/WINNIPEG

New Statistics Canada data has confirmed what traders already assumed — lentil supplies aren't lacking, despite excess moisture this year. Prices for the pulse had been trending lower with those suspicions, and buyers are looking to India for indications on where to move in the new year.

Statistics Canada estimates say farmers produced about 3.25 million tonnes of lentils this year, based on a survey in late fall and early winter. That's on par with the government agency's August estimates, and well above the 2.5 million tonnes grown last year.

Production could be even higher, as warm weather after the survey finished allowed producers into fields for late-season harvesting.

StatsCan data shows ample lentil supplies, but traders had already been pushing the market lower, said David Newman of Victoria-area pulse trading and processing firm Commodious Trading.

"Some of the guys in the market are just saying, 'You know what? We're taking these prices down,'" Newman said.

"I think we've really got to a point of exhaustion," he added. "They're not

For three-times-daily market reports from Resource News International, visit "ICE Futures Canada updates" at www.albertafarmexpress.ca.

really ready to take this a whole lot further until there is some new information."

Large green lentils are priced between 28 and 65 cents per pound across the Prairies — quality dependent — while red lentils are going for about 30 cents per pound, according to data from Prairie Ag Hotwire.

Buyers will be watching production news from India, and new crop demand into the new year for market indications in coming months, Newman said.

"That will move it again — what the spring conditions are like — but until then, I think a lot of us are tired."



Despite harvest woes, there are lots of lentils for sale. But buyers of the pulse crop are more scarce this year. PHOTO: THINKSTOCK

Russia says grain export capacity up ninefold in last 14 years

The numbers underline the country's new status as export powerhouse



Employees load a seeder while sowing winter wheat in the village of Grushevskoye in Stavropol region, Russia in October. After a massive investment in port capacity, Russia — once a major importer of wheat — is planning to greatly increase wheat exports. PHOTO: REUTERS/EDUARD KORNIYENKO

MOSCOW/REUTERS

Russia, expected to become the world's top wheat exporter this season, has ramped up its grain export capacity to 45 million tonnes and will now focus on infrastructure in remote areas.

Russia has supported the development of its port capacity as the government aims to drive production to 150 million tonnes by 2030, up from a record crop of 117 million tonnes in 2016.

"In 2002, when we were only starting to export grain, the transshipment capacity in Russia was five million tonnes per year," Agriculture Minister Alexander Tkachev told the Duma, Russia's lower house of parliament, last month.

"It is currently at 45 million tonnes, excluding the capacity which is currently being built or planned. In fact, we solved the

problem with export infrastructure (in ports). We have a task to develop grain infrastructure in areas which are not near a port," he added.

If Russia boosts its grain crop to 150 million tonnes by 2030, it would have 50 million tonnes available for export compared with 35 million tonnes in the 2016-17 marketing year, which lasts until July 1, the government has said.

Speaking about the results of the first half of the 2016-17 season, Tkachev said Russia harvested 72 million tonnes of wheat, of which 28 million to 30 million tonnes will be available for export in 2016-17.

Milling class wheat totalled 83 per cent of the 2016 wheat crop. The share of third-class wheat was more than 30 per cent, Tkachev added.

Russia's 2016-17 record crop of around 117 million tonnes is expected to make it the world's largest wheat exporter for the first time in its history, relegating the European Union (EU) to second place.

"We solved the problem with export infrastructure (in ports). We have a task to develop grain infrastructure in areas which are not near a port."

ALEXANDER TKACHEV

Moscow has already exported 17.7 million tonnes of grain between July 1 and Dec. 7, flat year on year, including 13.9 million tonnes of wheat.

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ALBERTA AGRICULTURE AND FORESTRY RELEASE

Time is running out if you want to enrol in AgriProfit\$. Producers have until mid-January to sign up for the business analysis program, said Pauline Van Biert, a research analyst with Alberta Agriculture and Forestry.

After providing their farm information, participants receive a detailed analysis that drills right down to their own cost of production (such as the cost per pound of calf weaned, cost per tonne of hay, or cost per bushel of barley). "In working with Alberta pro-

ducers we've learned that while two farms may look pretty similar on the outside, their costs and profits can vary widely for a number of reasons," said Van Biert. "Differences in profitability have more to do with differences in their costs of production and less about commodity prices. In knowing these differences and using their own numbers, farm managers can better control their business."

While financial statements summarize the activity of the business, they don't dig down to how each activity, crop, or enterprise contributes to the overall farm profitability, she noted.

"AgriProfit\$ breaks down the

farm into enterprises, like a cow herd or grains or forages. Each enterprise is reported on individually and can be looked at as a unit to see where there are strengths or weaknesses. AgriProfit\$ also brings it all back together into a farm analysis so farmers can also see their overall farm picture."

Provincial averages, or benchmarks, are also provided to participants. AgriProfit\$ is for the 2016 production year and producers are sent forms to fill in. A farm visit is made between January and March to finish up and pick up the forms.

"Producers tell us that they have become more effective at analyzing; budgeting and plan-

ning; and that they are making better management decisions," said Van Biert. "They understand what their long-term average costs are, can identify targets for what their costs should be, and are more effective at identifying business options and opportunities."

The only cost for the program is in the time invested in it.

"In return, the producer receives a business analysis of their own farm, using their own numbers, to use in making profitable management decisions."

For more information or to register, contact Pauline Van Biert at 780-415-2153 or pauline.vanbiert@gov.ab.ca.



When you dig down into the profitability of two seemingly identical farms, you often find one is much more profitable. PHOTO: THINKSTOCK



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BOCOCK BROTHERS RECEIVE TOP DAIRY AWARD

John and Bill Boccock are the 2016 recipients of the Alberta Milk's Dairy Industry Achievement Award. The brothers are trendsetters whose dairy careers have spanned decades, and among their contributions to the industry is a donation of 777 acres to the University of Alberta to create the St. Albert Research Station. The station is used to study topics such as greenhouse gas emissions, water management, soil erosion, and sustainable crop development. The brothers, who sold their dairy cows several years ago, were also on the cutting edge when it came to animal welfare, environmental practices, and breeding. — Alberta Milk

NOMINATIONS WANTED FOR LIVESTOCK AWARDS

Nominations are open for the Alberta Farm Animal Care awards of distinction, which recognize individuals or groups who have made exceptional contributions in the field of livestock welfare. There are three award categories: communication, industry leadership, and innovation. If you know an individual or organization whose contributions to animal care enhance their community and inspire others, please take a few minutes to summarize in a letter why you believe they deserve the award. Email the letter to Kristen McDonald at kristenm@afac.ab.ca. Nominations close March 1. — AFAC

LIVESTOCK

Get ready for super-efficient cattle — and a better relationship with consumers

Top researcher says big data and genomics are game changers, but winning the trust of consumers is equally key

BY JENNIFER BLAIR
AF STAFF / MEDICINE HAT

In the ever-changing landscape of Canadian agriculture, efficiency is the new watchword.

"If we can increase efficiency of production by about five per cent in Alberta, we can save producers about \$100 million a year — even if only one-third of livestock producers adopt those efficient improvements," said Erasmus Okine, vice-president of research at the University of Lethbridge.

As the world population grows to nine billion by 2050, livestock producers will need to produce more meat with less land, water, and feed, Okine said at the Farming Smarter conference last month.

"The demand for meat is supposed to increase by about 55 per cent, and this is due to about three billion moving into the middle class in emerging economies like China and India," he said.

"We — among the six countries that can actually say we feed the world — will have to provide this food in a safe, affordable, nutritious, and environmentally sustainable manner."

Canadian producers have "always done very well" at increasing efficiency in their production practices. From 1977 to 2007, producing the same amount of beef required 70 per cent of the animals, 81 per cent of the feed, 88 per cent of the water, and 67 per cent of the land.

"For those who want to count carbon, it's resulted in a 16 per cent decrease in the carbon footprint of the beef animal," said Okine. "We do very well here."

Livestock agriculture has made those leaps through genomics and innovations such as 'big data,' he said. And it needs to do more of that.

"Big data in the livestock industry is what will propel us to be able to feed the world. That is what is going to get us there, and that's what we're using in the livestock industry."



There's huge money to be made by finding and selecting more efficient cattle, says Erasmus Okine, an expert in areas such as residual feed intake. PHOTO: UNIVERSITY OF LETHBRIDGE

Residual feed intake

One of those ways is to drive down feed costs, which account for 25 to 40 per cent of the total production bill.

"If you can increase your efficiency in terms of feeding, that is huge," said Okine, citing one of his research areas, residual feed intake.

"Residual feed intake is the difference between what we expect the animal to eat for the 2.2 pounds of daily gain we want versus how much it actually eats to gain the 2.2 pounds," said Okine.

"Some of these animals eat less for the same amount of

gain, but some eat more for the same amount of gain."

And through genomics, scientists are able to select those more efficient animals with heritability of about 40 per cent for those traits.

"Once you select a bull that is low residual feed intake, it will pass on those genes to the calves, and by using that in a commercial setting, we're able to show that in a pen of 200 animals, the efficient ones cost less in terms of feed intake," said Okine, adding less efficient animals can cost an extra \$25 or more per head.

"If you look at it in terms of

the actual amount of all feeders, the calculations show about \$19 million to \$38 million of savings. And if you add the cows, it would be about \$54 million to \$110 million."

'Social trust'

But while genomics and big data will help producers feed the world more efficiently (while saving some money, too), "science is not enough."

"What we need to do in terms of feeding ourselves and feeding the world is to take a look at shared values," he said. "I know the science. I can use the science. But what is the

"Most people who are not in the livestock arena don't particularly care how much we know — until they know how much we care."

ERASMUS OKINE

point of using the science if we don't have shared values?

"Most people who are not in the livestock arena don't particularly care how much we know — until they know how much we care."

In order to create those shared values, the agriculture industry as a whole needs to look at "three pillars."

"The science is there to help us feed the world," said Okine. "The challenge is trying to maintain a sustainable balance in terms of the economic, the environmental, and the social pillars."

Of course, it's important to be economically viable, he said.

"We need a return on investment. We want to increase productivity and increase profitability."

But the industry also needs to look at "ethically grounded" production that includes environmental sustainability and "social trust."

"We need to have the social trust — not licence — through responsibility, respect, fairness, and the truth about what we do," he said.

"Our future in Alberta requires very innovative and intricate solutions to address the important issues facing us on the environmental side, the societal side, and the economic side."

jennifer.blair@fbcpublishing.com

Have a game plan before calving season gets underway

The risk factors that can sicken young calves are numerous but some can be mitigated, says veterinarian

BEEF CATTLE RESEARCH COUNCIL RELEASE

The upcoming calving season will be a time of risk for disease on cow-calf operations. Pathogens that cause disease in young calves are present in all herds, so careful management is necessary to prevent them from getting sick.

“Cow-calf producers most often deal with scours, septicemia, respiratory disease, and joint or navel ill,” said Dr. Claire Windeyer, a veterinarian and professor and researcher at the University of Calgary.

“Septicemia often looks like a severe case of scours, except there is no diarrhea associated with it. In other cases, septicemia may present itself as calves found dead because the disease advances so quickly.”

Risks for disease can be thought of in terms of a triad including the pathogen (the bug), the host (the calf), and the environment.

score of your cows,” said Windeyer. “Going into the calving season, producers should be thinking about what their goals are — and from there, what their protocols and approach will be.”

Windeyer recommends having a clear ‘game plan’ and making sure all the equipment and plans are in place before the calving season.

“Having a plan allows producers to make sure they are able to mitigate all three parts of the risk factor triad. This includes things like making sure cows are vaccinated, good colostrum management, and providing bedding to keep calves warm and dry.”

A webinar given by Windeyer on this topic on Dec. 8 can be found at www.beefresearch.ca.



Ensuring a calf gets enough colostrum and has dry bedding can lessen the chance it will become sick. PHOTO: THINKSTOCK

“Going into the calving season, producers should be thinking about what their goals are.”

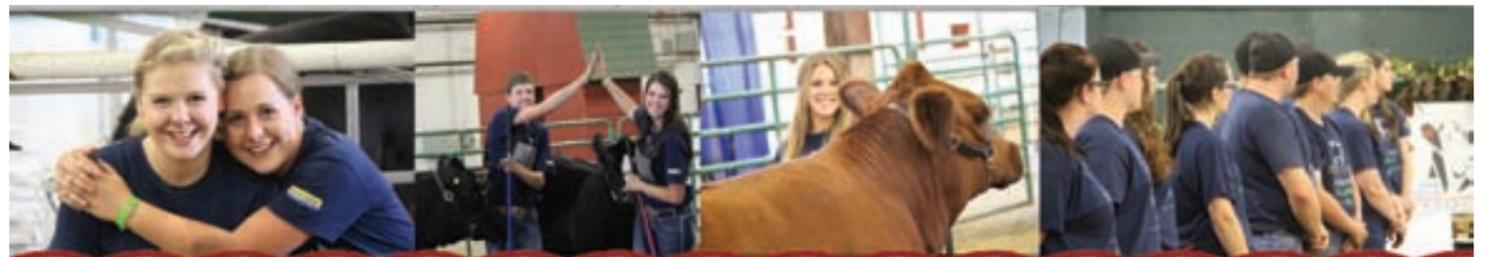
DR. CLAIRE WINDEYER

“Pathogen risk factors include the certain bacteria or viruses in a producer’s herd. The pathogens that cause calf disease are usually already present on farm, so producers should focus on the other two parts of the triad. The host risk factors include things like: Did the calf get enough colostrum? Was it a difficult birth? Was the calf born into a snowbank?”

“All those things can put calves at higher risk for disease. In terms of environmental factors, those include things like winter storms, or milder winters where there is a lot of mud.”

In terms of preventing diseases in young calves, the biggest difference between the herds that manage their calf health well and other herds is the planning put into the calving season, said Windeyer. The effort to wean healthy, heavy calves starts long before the calving season and before calves get sick, she added.

“Start to plan at the breeding season the year before by selecting the right cows for your herd, and checking the body condition



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Thursday February 23, 2017

Registration @ 1:00 PM MST

Opening Remarks & Introductions

“Public Trust” by Marty Seymour from Farm Credit Canada

“Beef Advocacy & CCA Programs” by Jill Harvie from Canadian Cattlemen’s Association

Jubilations Dinner Theater

Friday, February 24, 2017

Beef Center of Excellence Tour & Lunch

“True Colours Personality Inventory” by Natalie Stratton

“Beef Industry Issues” by Tom Lynch-Staunton from Canadian Cattlemen’s Association

Escape Rooms

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Don't overlook the most important mineral in a horse's diet

A horse's behaviour is the best sign of a salt deficiency, rather than subtle and non-specific symptoms

BY CAROL SHWETZ DVM

Salt is the most important mineral required by horses, yet its importance is often overlooked in favour of seemingly more important minerals.

Although the majority of a horse's mineral quota will be met with a good-quality long-stem forage, the salt content in grasses and hay is too low for the needs of a horse. Consequently all horses will need salt supplementation. Salt is an essential part of nutrition and just like any other nutritional deficiency, when a horse's salt requirement is not met health consequences develop over time.

Common salt, a combination of sodium and chloride, is essential for countless critical functions in the body. When dissolved in the bloodstream these two minerals become ionized and are integral to electrical signals and communication throughout the body. This communication is instrumental for the nervous and musculoskeletal systems to function properly.

Sodium has the ability to hold water in the tissues and thus its presence has a major influence on hydration and fluid dynamics in the body. Insufficient sodium inevitably leads to a degree of dehydration. This function of sodium is so important to the body that the sodium levels are "read" by the brain in determining when to trigger thirst.

Sodium is also involved in moving glucose across the cell membrane where it is used as a fuel

source. If sodium is insufficient at the cellular level glucose transport in the tissues is impaired. Ultimately this translates into ill health and may present as early fatigue, muscle weaknesses and impaired performance. Less recognized benefits of adequate salt are an aid in blood sugar regulation, hormone balance, maintenance of healthy weight, health of hooves and hair coat, pH balance of the body and its function as a natural antihistamine.

Salt insufficiency generally develops over a period of weeks or months and clinical signs of minor deficiencies are generally non-specific and subtle. Fortunately the behaviour of the horses themselves provide a valuable clue regarding their salt requirement. Horses lacking salt often develop an abnormal appetite, also known as "pica" and lick objects that may have traces of salt on them. These can include but are not limited to wood, metal, stones, fences, bark, hands, vehicles, and soil. Although the occurrence of pica does not necessarily indicate a salt deficiency, it does warrant a check for the availability of a sufficient salt source. A decrease in water intake often accompanies a salt deficiency as the body attempts to preserve what salt it does have. The dehydration closely associated with salt deficiency places such horses at a greater risk for colic.

Salt requirement of any one individual horse is in a constant state of flux — just observe the daily activity around the salt lick within a group of horses for a



PHOTO: THINKSTOCK

period of time. This is because "true" salt intake is influenced by a number of factors including an animal's own unique biochemistry, diet, lifestyle and various events in the horse's life. Even the weather will determine the amount of salt a horse needs, since weather directly affects the growth and chemical composition of forages. The salinity of water sources can also influence a horse's need for salt from outside sources. Waters from deep ground wells tend to be quite saline in nature.

With so many variables influencing the salt needs of a horse, it becomes problematic for human

logic to determine the exactness of any one horse's salt requirements. Fortunately horses have an innate ability or inner wisdom to regulate their own salt requirement. Therefore it is possible to allow the horse itself to meet its own salt equilibrium. In order to do so it will need free-choice access to a readily available source of salt.

First, some basics: an average-size horse of 450 kg (1,000 pounds) needs roughly two level tablespoons or one ounce of salt per day to meet its requirement for sodium and chloride. The demand for salt will fluctuate daily and can double and even triple when workload and/or hot and humid environments increase sweat losses.

Providing salt for horses can mean simply tossing out a salt block. As convenient and economical as this common practice is, it does have shortcomings and often does not suffice meeting the salt requirements of many horses.

Processed and/or pressed salt blocks were originally designed to

be consumed by the rough tongue of cattle, and so the smooth tongue of the horse often fails to easily remove the quantity of salt necessary to satiate the horse. While the addition of trace minerals in "colour-coded" salt blocks may seem to be a good idea, the inexpensive forms of inorganic minerals used are rarely bioavailable to the animal. Some horses object to the bitter taste of minerals in the salt block and thus will not ingest the salt they require.

One way to improve availability of salt for the horse is to provide a source of natural salt. It has been my experience that horses offered a source of natural salt will increase their consumption of salt, considerably so at times. Natural salts are not pure white in colour, rather they are reddish, pink or grey due to their unrefined mineral content. They can be purchased as uneven "rocks" or licks. The fissures and variations in densities and textures inherent to the mined "rocks" create a "softer" lick for the horse, thus increasing their availability for salt.

Providing horses with a loose granular or free-flowing form of salt has also been shown to increase both their salt and water consumption. In order to minimize wastage while providing this form of salt it is necessary to utilize covered mineral feeders or secure buckets with the loose granulated salt in protected shelters.

Horses appear to have an innate intelligence when meeting their salt requirements and they also appear to have a preference regarding the quality of salt offered to them. Whenever the salt source is well received by the horse the horse's own intake will naturally wax and wane as it is continually meeting its own salt equilibrium.

Carol Shwetz is a veterinarian focusing on equine practice in Millarville.

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Simulating summer makes cows healthier and more productive

Lighting experts say the correct light intensity and duration positively affect health, fertility, welfare and productivity of dairy cattle

BY JENNIFER PAIGE
STAFF

The lighting in your barn may be having more of an effect than you realize.

"The livestock's biological clock is regulated by light striking the pituitary gland in the middle of the brain," said Andrew Hannon, a lighting specialist with Agrilight, a company that specializes in livestock barns and agricultural buildings. "A lack of light depresses metabolism and causes increased melatonin output. We see this effect in the shorter days of winter."

A well-lit barn can both reduce energy costs and increase milk production, he said.

"The benefits of proper barn lighting are that we can simulate and achieve a natural rhythm for the livestock in the barn. We want to manipulate that day, night rhythm," Hannon said.

Nearly four decades ago, Michigan State University researchers placed one group of dairy cows into 16 hours of light, followed by an eight-hour period of darkness and another group that was left at a natural light period during calving.

"The study was conducted between September and March and it took place over the first 100 days postpartum," said Hannon. "Cows on a long day regime produced two litres per day more milk than those on the natural photoperiod."

At 100 days the treatments were switched. The cows previously on a natural photoperiod increased in milk production when brought in to the long day light, where those that were on the supplemented lighting decreased their milk yield.

"The results suggested that exposure to long day lighting increases milk yield and it does so across the production level."

Other studies in North America and Europe confirmed those results and also found correct light intensity and duration have positive effects on the health, fertility, and welfare of dairy cattle.

Researchers have found that light impacts hormone levels in cows and can increase milk productivity by 15 per cent.

"Based on those studies, the recommended long day lighting for both milking cows and growing heifers is a light intensity of 150 to 200 lux over a 16-hour period, followed by an eight-hour dark period with a light intensity less than 50 lux."

This lighting equation simulates long summer days, the days the cow is naturally the most active, resulting in higher yields and higher feed intake.

"With that increase in feed intake and an adequate rest period, that long day lighting provides, the overall health of the cow is usually improved as it is less stressed, which in turn also helps improve fertility," Hannon said.

What to consider

When looking at your facility and its lighting, there are a few things to take into account. Is the interior of the barn a reflective material? Plywood or concrete may require more lighting. As well, different areas of the barn require different light intensity.

"Veterinarian areas require very intense light levels because of the inspection required, whereas your feed alleys and sleeping pack areas require less intense light," Hannon said.

When positioning lighting it is best to watch for posts, beams or anything that may cast irritating shadows.

"You do not want to put lights above ceiling fans," he warned. "You will, in effect, create a strobe light, which is unsettling for, not just cows, but also all other livestock and people as well."

Also make sure the electrical system is properly grounded as cows are sensitive to stray voltage and electrical noise can interfere with RFID tags.



Researchers have found that light impacts hormone levels in cows and can have a positive impact on milk yield. PHOTO: SUPPLIED

"It is amazing how low the voltage can be and a cow can detect that voltage," said Hannon. "That

is when you start to see cows not wanting to go to feeding troughs or other behavioural issues."

LED lights have become the most popular choice for agricultural buildings because they use less energy and require virtually no maintenance.

"Fluorescent lights would be next most popular and they are very good energy consumption, efficiency-wise but have a high-maintenance factor," Hannon said. "Then there are HID (high-intensity discharge) systems, which have a moderate or low efficiency on energy consumption. They are the highest burner of energy and they have a medium level of maintenance."

Hannon also recommends light products that have damp or wet location ratings as they will last longer.

jennifer.paige@fbcpublishing.com

STEAKING OUT

THE CONSUMER

Options & Opportunities

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Dina Ignjatovic | Economist, Agriculture Services, TD Bank

Doug Lacombe | President, & Founder, Communicatto

Jennifer Winter | Director, Energy & Environmental Policy, U of C

CONFERENCE SCHEDULE

February 15th, 2017

10:00am - 3:30pm	Animal Welfare in Canadian Feedlots
10:00am - 12:00pm	Holistic Management
1:00pm - 2:00pm	Uncovering Your Personal Brand
6:00pm	El Noche de Havana Opening Dinner

February 16th, 2017

8:30am	Welcome
8:45am	Changing Minds: How to Turn Negative Perceptions Into Positive Ones
9:45am	Lessons Learned Through Advocacy
10:45am	Survey says ... BEEF! What consumers are thinking now?
11:15am	Behind the Brand ~ Canada Beef
11:45pm	The Real Beef ~ Panel Discussion
2:00pm	Global Beef Market Outlook
2:45pm	Tell Me a Story: The Power of Storytelling in Marketing
4:00pm	Reception
5:30pm	Dave Hemstad
6:15pm	Taste of Alberta Dinner & Live Auction
9:30pm	Billy Bob's after party featuring Wooden Nickel

February 17th, 2017

8:30am	2017/18 Weather Forecast
10:00am	Global Economic Outlook
10:45am	North American Cattle Market Outlook
11:30am	Emissions Pricing in North America and Impacts on Agriculture

(Subject to change)

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TRUMP HAS CLIMATE RESEARCHERS WORRIED

Climate scientists are worried president-elect Donald Trump will slash their budgets and sideline their research. Reuters news service interviewed more than a dozen researchers, who talked about entering survival mode. They said they were trimming the words "climate change" from study proposals and emphasizing business applications of their work. "I think it is maybe really necessary to refocus what you are doing and how you are labelling it," said Andreas Prein, a scientist at the federally funded National Center for Atmospheric Research. While President Barack Obama was a strong supporter of climate change research, Trump has questioned whether it even exists. — Reuters

NO CONCERNS ABOUT MOISTURE THIS WINTER

Frequent summer and autumn rains have bumped up moisture reserves across much of Western Canada. So much so, that there aren't any areas where dryness is a concern heading into next year, something that's "abnormal," said Trevor Hadwen, agroclimate specialist with Agriculture and Agri-Food Canada's Drought Watch program. "The entire Prairie region does not have a single drought area at this time of year," he said. "Normally you would have some small region (experiencing) moderate drought." La Niña typically brings more snow but February, generally the biggest snow month, will tell the tale, he said. — Commodity News Service

WEATHER



When it came to weather, the past year was anything but average

Last winter was a breeze, fears about a lack of precipitation were soon drowned out, and November was a saving grace

BY DANIEL BEZTE

The year isn't quite done yet as I write this, but I really want to take a look back and see just how the numbers turned out for our weather across the Prairies this year. I figure the best way to do this is to look back month by month and then do an overall summary of the year.

January

The year started off mild and dry across the Prairies, with all of the major centres in Alberta, Saskatchewan, and Manitoba reporting above-average temperatures and either average or below-average amounts of snow. The warmest region, compared to average, was Saskatchewan, with Regina reporting a mean monthly temperature that was 3.5 C above average. Saskatoon was the wettest or snowiest area, compared to average, with 2.5 millimetres more precipitation than average.

February

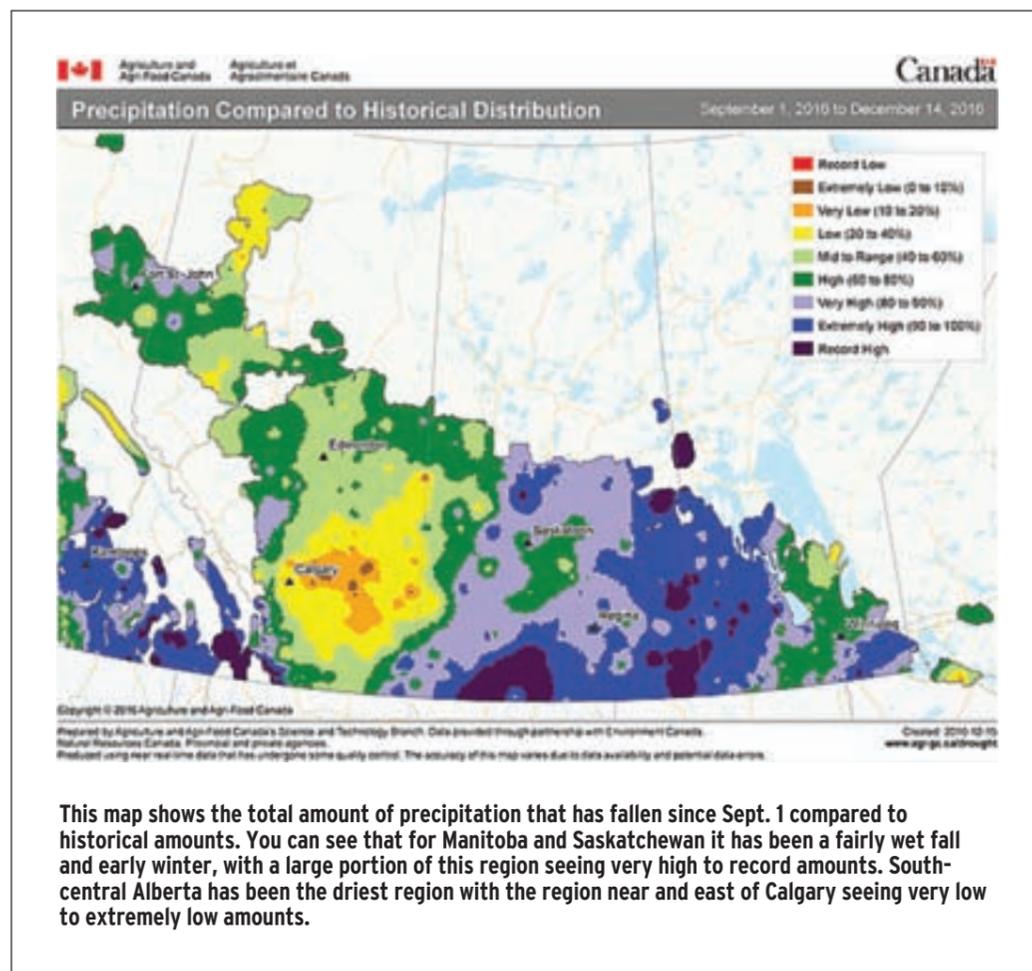
The warm temperatures were turned up a notch, especially over the western three quarters of the Prairies. Mean monthly temperatures in Alberta and Saskatchewan were 6.0 C above average, with Manitoba a little cooler, with mean temperatures ranging between 2.0 and 5.0 C above average. Precipitation continued on the light side with only Dauphin, Man. reporting slightly above-average amounts.

March

The warm winter continued with all locations seeing an early start to spring, thanks to temperatures that were between 2.3 and 5.2 C above average. Combine the warm temperatures and light snow cover and most regions were snow free by the end of the first or second week of the month. Winnipeg was the wettest spot during March, with most of the precipitation coming in the form of rain when nearly 20 millimetres fell on the 15th and 16th.

April

Alberta continued with above-



This map shows the total amount of precipitation that has fallen since Sept. 1 compared to historical amounts. You can see that for Manitoba and Saskatchewan it has been a fairly wet fall and early winter, with a large portion of this region seeing very high to record amounts. South-central Alberta has been the driest region with the region near and east of Calgary seeing very low to extremely low amounts.

average temperatures, but things cooled down to near average in Saskatchewan and to slightly below average in Manitoba. Alberta continued on the dry side, while Manitoba saw wet conditions with Winnipeg reporting 55 millimetres — a good 23 millimetres above average. Just like March, most of the precipitation came in the form of rain, with about 36 millimetres falling on April 15 and 16.

May

Warmer-than-average temperatures continued, but this time it was the eastern regions that were the warmest compared to average. This was also a wetter month across the Prairies with only Saskatoon, Brandon, and Dauphin reporting near- to below-average amounts.

June

Once again we saw warmer-

than-average temperatures, but not to the same degree as previous months. Mean monthly temperatures across all the stations averaged between 0.5 and 1.5 C above average. Precipitation varied during June, with Dauphin, Saskatoon, Regina, and Calgary reporting below average, while the other sites received above average.

July

Temperatures were near average across the Prairies, with precipitation running near to above average during the month. The big weather story of the month was the heavy rainfall that hit Calgary from July 11-17. During this period, parts of the city saw nearly 100 millimetres of rain. Combine this with several other rainfall events over the rest of the month and totals ended up in the 200-millimetre range.

August

Near-average temperatures and above-average amounts of rainfall continued for most locations. The wettest region was Peace Country, which saw more than 100 millimetres in the month. The driest region was around Winnipeg, where less than 50 millimetres fell.

September

Near-average temperatures continued into the month across Alberta and Saskatchewan, while slightly above-average temperatures moved into Manitoba. Precipitation was variable across the Prairies during this month, with Peace River, Regina, and Brandon reporting above-average amounts, while the other stations had below-average amounts.

October

Mild weather continued in

Manitoba, with temperatures averaging between 1.0 and 2.0 C above average. Temperatures were much cooler over Saskatchewan and especially Alberta, with mean monthly readings as much as 3.6 C below average. With the colder temperatures came plenty of precipitation. October was the only month of the year that saw all major stations report above-average amounts. The hardest-hit area was western Manitoba and eastern Saskatchewan. Dauphin saw 137 millimetres during the month. Combine this with heavy September rains and the cool temperatures providing very little evaporation, and conditions were very wet going into the winter.

November

This was the hottest month of the year compared to average, with many monthly records broken in Saskatchewan and Manitoba. Precipitation was below average in those two provinces, but above average across much of Alberta. Edmonton was the wettest location with 166 millimetres falling, which is nearly 10 times the average.

December

After a few warm days to start the month, the cold weather moved in to make us pay back all the warm we saw in November. Even after the warm start, and with near-average temperatures that look to end the month, December looks like it will come in well below average, with the coldest readings across Alberta.

Overall, the year was warmer than average, with some regions coming within a degree of their all-time warmest year on record. Precipitation (when compared to average amounts) was near to above average across all regions, with the wettest region being Alberta.

Daniel Bezte is a teacher by profession with a BA (Hon.) in geography, specializing in climatology, from the U of W. He operates a computerized weather station near Birds Hill Park. Contact him with your questions and comments at daniel@bezte.ca.

LOTS ON OFFER AT AGRONOMY UPDATE

Weather and new varieties will be in the spotlight at 2017 Agronomy Update in Lethbridge on Jan. 17-18. "New varieties are always showing up with different growing seasons," said provincial crop specialist Harry Brook. "We've got producers in the south who are successfully growing soybeans. There is new information every year when it comes to the range of crops a producer can choose." Agro-meteorologist Ralph Wright will speak about services and programs available for producers "to get ahead of the weather report." Other topics include how much fertilizer to use, nutrient availability, and the best crop rotations. Early-bird registration costs \$125 and ends Jan. 6 when registration increases to \$150. Call 1-800-387-6030 to register. — AAF



CROPS

This is not good – triple-resistant kochia has entered Alberta

Glyphosate-resistant kochia was bad but there's a new strain that's much worse

BY MADELEINE BAERG
AF CONTRIBUTOR

Kochia, one of Western Canada's most abundant and economically devastating weed species, has won another major battle in overcoming herbicide.

This summer, the first known Group 4 herbicide-resistant kochia was identified in a durum wheat field in southwestern Saskatchewan. And samples currently being tested from a farm in southern Alberta are also suspected to be Group 4 resistant.

This new resistance follows just five years after Alberta's first glyphosate (Group 9) resistant kochia was identified in 2011 in Warner County.

"There's no question this will complicate kochia management. When you consider that all kochia is Group 2 resistant, and then you stack on Group 9 resistance as well, and now Group 4 resistance too, that three-way resistance starts to limit options," said Hugh Beckie, a weed scientist with Agriculture and Agri-Food Canada. "It could be worse — there are still other herbicide options to control kochia — but it puts another nail in the coffin in terms of herbicide efficacy."

The two cases of Group 4 resistance are likely only the tip of the iceberg.

"When new resistance comes up there are almost certainly many more cases out there that just haven't yet been identified," said Beckie. "We expect to see a number of cases across the Prairies in the next few years."



This is not what you want to see – resistant kochia was thriving in this wheat field in southern Saskatchewan in 2015. PHOTO: HUGH BECKIE

Kochia's prolific seed production and tumbleweed nature mean new resistant strains have the potential to spread virulently.

By 2013, just two years after it was first identified in southern Alberta, glyphosate-resistant kochia had spread to at least 18 nearby fields. But, said Beckie, do not assume that only nearby fields are at risk: kochia can tumble long distances, spreading seeds all the while. And additional resistant strains are likely to spontaneously appear in other fields as kochia manages to repeatedly breach the herbicide barrier.

Though no official surveys have been conducted to map its spread since 2012, Beckie suspects glyphosate-resistant kochia now exists in many western Canadian fields. Surveys will be conducted in Alberta this year, in Manitoba in 2018 and in Saskatchewan in 2019 to deter-

mine how common and how widespread glyphosate-resistant kochia has become.

"Back in 2012, about five per cent of fields showed glyphosate-resistant kochia," said Beckie. "The new surveys will give us a good indication of how quickly it is evolving and spreading. How much of an increase we should expect is hard to say. We'll have to wait and see but I would expect (the per cent of fields impacted) to be in the double digits."

Now that Group 4 resistance has also been identified, researchers will attempt to map its early spread as well.

"I expect the Group 4 resistance will repeat what we've seen with Group 2 resistance — fairly rapid and widely spread resistant population increases," said Beckie. "However, an apparent fitness penalty

associated with that type of resistance may slow its development and spread."

Beckie is not surprised by the new Group 4 resistance. Group 4- and 5-resistant kochia biotypes appeared in the northern U.S. several years ago. Even if resistant strains do not blow up from our neighbours to the south, herbicide resistance is simply a numbers game. The more often a herbicide is applied, especially on a common weed and highly prolific seed producer like kochia, the more likely resistance will develop. Given producers' heavy reliance on herbicides, scientists agree that resistance to all herbicide options is only a matter of time.

"I'm actually surprised how durable the Group 4 chemistry has been to date considering they are very old chemistries dating back to the Second World War," said Beckie. "Today, a lot of herbicide products are prepackaged or tank mixed with a Group 4 so we are seeing increased Group 4 use Prairie-wide. And new crops like soybeans are coming with a Group 4 gene, which also puts more pressure on that kind of herbicide. Selection pressure is there in most fields now, so we knew this was coming."

So be vigilant about field scouting, he said.

"The awareness is there, but when you add time pressures, sometimes things fall through the cracks. Producers need to really be watching for how their herbicides are working so that they can catch problems before they burgeon out of control."

If you suspect Group 4 resistance, contact Beckie at hugh.beckie@agr.gc.ca to arrange free testing.

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Actual test results. University of Guelph, 2014.

Canola may soon be able to text you when it needs to be sprayed

Nano-biosensors are more accurate than checklists at determining when to spray for sclerotinia

BY JENNIFER BLAIR
AF STAFF / MEDICINE HAT

An Alberta researcher has found a tiny way to solve a big problem for canola farmers — using nano-biosensors to detect sclerotinia stem rot in the field, eliminating the need for visual scouting.

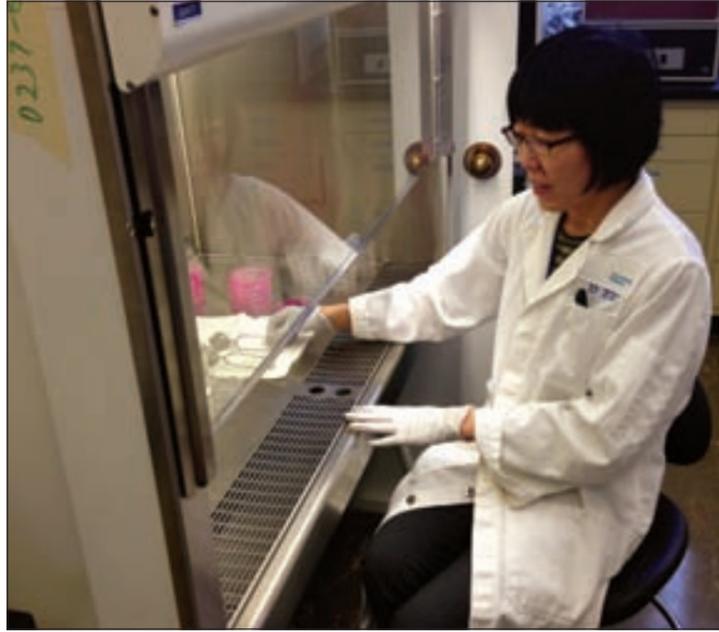
“Sclerotinia stem rot is one of the most devastating diseases in canola farming, and scientists have worked very hard to try and find a way to forecast it,” said Susie Li, senior researcher at Alberta Innovates-Technology Futures.

“Right now, we have a checklist — a set of questions you have to answer before you can make decisions to spray or not to spray.”

But while the questions — about your crop rotation, incidence of disease in previous years, moisture levels in the canopy, and other factors — have been successful for crops such as peas, they’re “not always reliable” for canola.

That’s because sclerotinia spores can stay dormant in a field for years, and “sudden weather changes can cause infestations to occur unexpectedly,” Li said at the Farming Smarter conference last month.

“If you were to ask me, my suggestion would be to flip a coin. You have a 50/50 chance either way.”



Nano-biosensors have proven effective in detecting sclerotinia in the lab, says researcher Susie Li. The next step is seeing how well the \$10 devices work in a field. PHOTO: SUPPLIED

While scouting for apothecia — fruiting bodies that look a little like mushrooms — can be “an excellent indicator of sclerotinia risk,” it is time consuming and more often than not, producers have no way of knowing how many spores are present or whether they’ve reached a level that can trigger the disease.

“Not finding them either means there’s low risk of sclerotinia, or you just didn’t find it. That doesn’t mean it’s not there,” said Li.

“We can’t send a farmer into the field checking 24-7 for about six weeks to find this out, so we know we need to improve the forecasting technology.”

You don’t need to go to the field by using this device. You just stay in the comfort of your home until you find out if you need to spray or not.

SUSIE LI

Nano-biosensors

Li’s solution is both high tech and simple: nano-biosensors placed in the field to detect spore levels before they become a problem.

“A biosensor is an extremely small device capable of detecting and responding to physical stimuli,” said Li. “The sensor will detect the spores, and if the number of spores reaches the level that you need to spray, it will convert the biosignal to an electronic signal and send it to your cellphone.”

“You don’t need to go to the field by using this device. You just stay in the comfort of your

home until you find out if you need to spray or not.”

The biosensor has two parts — a container that collects the spores, and a small chip that contains a sclerotinia antibody, which attracts the sclerotinia spores. The antibody is a bit like a police checkstop, she said. If a sclerotinia spore tries to go through it, it gets caught, but other spores in the atmosphere carry on by it.

The sensor then counts the number of spores — “it can detect as low as five spores,” — and once the count reaches a level that would trigger the disease, it sends a signal to a cellphone using Bluetooth technology.

So far, the biosensors have only been tested in a lab, using growth chambers and a small number of canola plants. The next step is taking the trial into the field next year to see how big of an area the \$10 sensor can cover and what levels of spores might trigger the disease in a larger area.

“After all this work, I hope we can have a device in the field to monitor sclerotinia stem rot for you and alert you whenever there’s a sclerotinia stem rot outbreak imminent,” said Li.

jennifer.blair@fbcpublishing.com

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What can underwear say about soil?

Soil microbes love munching on cotton, so the underwear test is a good gauge of microbial populations in soil

BY JENNIFER PAIGE
STAFF

What does your underwear say about your soils? A lot — providing you bury it in a field, says Ontario farmer Blake Vince.

The cover crop and soil health advocate says the unusual test is a rough gauge of soil health.

“This is a little friendly test you can do at home with very little capital invested,” Vince said at a conference earlier this winter. “All you need to do is take a pair of men’s cotton underwear. Wash them first, put them in the soil and leave a little bit of the waistband exposed. It is basically a litmus test for soil biology.”

When Vince conducted the ‘underwear test’ in a field where he grows cover crops, he also buried a second pair of white undies in his neighbour’s conventionally tilled field. After about two months, he checked on both.

“The underwear out of my cover crop field was badly

eroded, where the pair from the conventionally tilled land was still very much intact,” he said. “This is a visual indicator that there is something alive in that soil. You can see that the biological activity has basically consumed all of that cotton.”

The more microbes in the soil, the faster the underwear will degrade, said the fifth-generation farmer and Nuffield scholar who grows corn, soybeans and winter wheat on his family’s 1,300-acre farm. He plants an 18-species cover crop mix — including six legumes, four grasses, and some broad-leaf plants like sunflower — after his winter wheat harvest, which typically comes off in the second week of July. Keeping something growing on a field boosts soil microbe population, which improves soil health; increases water infiltration and water-carrying capacity; and adds nitrogen, he said.

A video of Vince’s underwear test can be found at <http://tinyurl.com/z9hy88a>. For his Nuffield report on cover crops, go to www.nuffield.ca, click on the Scholars & Research menu, then on Scholar Reports, and then search for Blake Vince.

jennifer.paige@fbcpublishing.com



Blake Vince, fifth-generation Ontario farmer, offers up a homegrown suggestion on how to test the microbe activity in your soil. After being buried in Blake Vince’s cover crop field for two months, this pair of cotton underwear on the right has been badly eroded. PHOTOS: JENNIFER PAIGE

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O-66-11/16-10590104-E

New tool for managing nutrient run-off

Free downloadable tool for assessing phosphorus run-off risk and creating a customized mitigation plan will be available this spring

BY MADELEINE BAERG
AF CONTRIBUTOR

As more and more farmers, politicians and laypeople are coming to understand, nutrient run-off from farm fields into waterways is a very big deal.

When not managed properly, nutrients from fertilizer and manure make their way into creeks, lakes, dugouts, and other water bodies. But a new tool to help mitigate phosphorus run-off risk will soon be available.

Over the past three years, Alberta Agriculture and Forestry and the Intensive Livestock Working Group (an alliance of eight of Alberta livestock and poultry organizations) have been collaborating to build a simple, personalized farm management decision-support tool designed to help manage phosphorus run-off. The Alberta Phosphorus Management Tool, expected to be available in late spring, is a free, Excel-based tool for assessing phosphorus run-off risk. The tool will also provide producers with management solutions that include both a relative cost and environmental efficacy ranking.

"The idea behind this tool is to help producers prioritize where they could invest their time, energy and/or resources to manage phosphorus and run-off," said provincial water research specialist Jennifer Kerr. "Multiple beneficial management practices (BMPs) might be recommended based on a producer's



An Alberta Agriculture and Forestry employee samples a creek to help determine if BMPs are improving water quality. PHOTOS: ALBERTA AGRICULTURE

answers to the questionnaire. Obviously, you can't necessarily change environmental or geographic factors, but you can change things like how much manure you apply to a field or what time of year cattle have access to a riparian area."

Based on answers to the producer questionnaire, the tool provides a variety of customized recommendations.

"A producer might choose to implement simple, inexpensive recommendations to address their risk, while other situations may require a more complex solution," said Kerr. "Compared to doing nothing, even a small change is better."

Some recommendations — such as soil testing to determine nutrient levels before applying manure or fertilizer in order to limit overfertilizing — reduce run-off while also saving money.

Over the longer term, the plan is to offer producers additional resources and support to help them best manage run-off. Currently, the project team is putting together a producer website with links to additional tools, information, and resources (including grant opportunities).

Any information provided by farmers will be kept strictly confidential and won't be shared with other agencies, Kerr said.

"Our priority is all about finding solutions," she said. "As we were developing this project, we thought about different options and versions of this tool, including the idea of having farmers complete the questionnaire online. But if we went that route, we'd have to be really careful about where any producer information was stored for security reasons. And we know



"The idea behind this tool is to help producers prioritize where they could invest their time, energy and/or resources to manage phosphorus and run-off."

JENNIFER KERR

we'd lose some producers' willingness to complete the tool because they would be concerned their information was tracked.

"So in the end, we designed it as a downloadable document that you save to your own computer, so you have total control over it."

The tool is also designed to be user friendly and real-world applicable. The questionnaire drop-down menus make completion simple, and all analysis and calculations are completed via the tool's embedded calculators and algorithms.

To date, the tool has been tested by at least 10 producers in two study watersheds," said Kerr. "Everything from the questions asked, to the recommendations offered, to the layout and operation of the tool itself have been vetted by and adjusted according to producer feedback.

It's hoped the tool will be widely used.

"The vast majority of farmers is extremely environmentally conscious," said Kerr. "For them, choosing to use this tool will be just another aspect of their environmental planning. For those who are slower to respond, they need to consider that social licence is becoming a very important aspect of agricultural producers' businesses, and environmental stewardship is a key component of that."

"Alternatively, farmers can seek support from agricultural extension staff, agrologists, or others with strong environmental and production understanding to help develop run-off risk mitigation strategies."

While the Alberta Phosphorus Management Tool won't be available for a few months, a companion resource guide is available now at www.agriculture.alberta.ca (search for 'phosphorus management guide').

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Well pits jeopardize water quality and your safety

Even though they were banned more than two decades ago, hundreds of these hazardous pits can be found across Alberta

ALBERTA ENVIRONMENT AND PARKS RELEASE

When her father attempted to rescue her, he also passed out. The teenaged son who attempted to retrieve both his sister and father was also overcome. Of the three family members who entered the cellar, only the father survived. At first, investigators suspected that the vegetables had rotted and emitted a toxic gas, but the real problem proved to be something else. The root cellar was actually a well pit and the two teenagers died of asphyxiation, caused by a depletion of oxygen in the air within the pit due to the release of gases from the well.

This unfortunate situation is, thankfully, not a common one. But it serves as a very important lesson for owners of well pits.

Before the advent of pitless adapters, it was common practice to put wells inside pits to protect them from freezing in cold

weather. Since 1993, it has been illegal to enclose a well in a pit in Alberta, but there are still hundreds of old well pits throughout the province. Some landowners are completely unaware of the hazards these pits pose.

Well pits are a safety hazard for anyone who enters to service or repair the well. Some wells breathe, meaning they take in air under certain conditions and release gases under other conditions. In Alberta, well pits have exploded due to the buildup of methane gas, and people have died from asphyxiation after entering oxygen-depleted well pits.

Well pits also increase the risk of contamination to the water source (groundwater) because they provide a place for water and contaminants to collect. They are particularly dangerous when flooding occurs, because contaminated water can collect inside the pit and make its way inside the well.

These pits also appeal to animals and small insects searching for water, warmth, and food. From the well pit, these animals and their waste can find their way directly into the water you drink.

If water is in the bottom of the well pit, it can also pose a risk as an electrical conductor.

"Well pits can be dangerous," said Ken Williamson, a water expert and presenter with the provincial Working Well program. "They should be upgraded and replaced if possible."

In the interim, Williamson advises ventilating the pit and using a probe to test air quality before entering. Never store anything inside the pit and keep it as clean as possible so as not to attract mice and insects. A sanitary well seal will protect the well and prevent contaminants from getting from the pit into the well. Landowners should hire a licensed water well contractor to properly upgrade the well with a pitless adapter and backfill the pit.



Never enter a well pit before testing air quality, and keep them clean and sealed until they can be replaced. PHOTO: WWW.WELLAWARE.CA

Government funding is available to assist agricultural producers under the Growing Forward 2 program (see www.growingforward.alberta.ca). Online resources and free workshops offered by the Working

Well program provide well owners with the information and tools for properly caring for water wells. For more information, go to www.workingwell.alberta.ca, call 310-3773 or email ESRD.Info-Centre@gov.ab.ca.



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Apprenticeships available for aspiring organic farmers

Young Agrarians seeks to pair farming newcomers with experienced organic producers in Alberta

Young Agrarians, a program of Organic Alberta, is growing the next generation of farmers through a new apprenticeship program in 2017.

The program is intended to help aspiring farmers gain skills and insight from experienced producers willing to share their knowledge and expertise.

Four host farms have been selected in central and northern Alberta. Core activities include caring for livestock, pasture management, farm direct marketing, and sustainable cereal and grain production.

"It is important that apprentices learn about the strong networks that exist in rural communities because this is really where the farming knowledge resides," said program co-ordinator Melisa Zapi-socky.

Apprenticeships typically last eight to 12 months and participants receive room and board along with a monthly stipend and a \$750 honorarium for attending workshops, conferences, or participating in other learning opportunities.

The application deadline for the program, which is modelled after one created in B.C., is Jan. 31 and apprenticeships start in April or May. For more info, go to www.aoungagrarians.org and click on the U-Map Farm Resources icon. Organic Alberta launched the Young Agrarians program last year.

— Organic Alberta

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USED EQUIPMENT

USED COMBINES - All Combines REDUCED TO CLEAR

2011 NH CR9070, 1360 thrs hrs	\$199,000
2007 NH CR9070, 1516 rotor hrs	\$165,000
2015 NH CR8.90, 150 thr hrs, stone trap, guidance MacDon pick-up	\$485,000
2013 NH CR8090, 966 thrs hrs	Coming In
2014 NH CR8090, 741 thrs hrs	Coming In
2014 NH CR8090, 733 thrs hrs	Coming In

USED HEADERS

2010 NH 36' 94C, draper header	\$54,000
2011 NH 94C, 36' DK	\$49,000

USED TRACTORS

2012 Boomer 50 Compact Tractor,	\$28,000
NH TC 18, compact hydro, 4WD, 60 belly mount deck	\$7,200
1981 Versatile 875, 7600 hrs, Excellent rubber.	\$22,500

USED SWATHERS

2011 MacDon M150, c/w 30, D60	Coming In
2013 MacDon M155, c/w 25, or 30, D65 header	Coming In
2003 MacDon 9352, 30' DBL, 2800 hrs	\$42,800
MacDon 2940, C/W 30' header	\$48,000
2012 MacDon M105, c/w 30' D65	\$125,000
(2) MacDon M200, c/w R80 disc header and D60 30' header	\$128,000
2015 M155, 150 hrs 30' Dbl D65	\$150,000
(2) 2014 MacDon M155, c/w D65 30ft header, 450 hrs	Coming In

USED SPRAYERS

2011 NH SP365F, 1600 gal, 120', Auto Steer	\$282,500
--	-----------

USED FORAGE & HAYING

2002 NH 688, 10000 bales.	SOLD \$14,500
2011 NH BR7090, 9700 bales.	\$21,000
CIH DCX131, 13' pull type disk mower conditioner	\$16,900
CIH RBX562, round baler.	\$23,500

MISC

Kongsilde grain vac,	Call
Supreme 900T, pull type.	\$42,000

TILLAGE

2010 Agrex Maxi, 10 tonne fert spreader	\$35,000
2015 NH ST830, 62' cultivator as new 9" spacing	Call
Flexi Coil 3450, var rate air cart TBH	\$38,000
2000 New Holland P2070, precision drill 60'	\$49,500
NH/Flexi-Coil SC430, tow behind air tank.	\$45,000
New Holland P1050, tow behind air tank	Coming in
Salford 5129, 29' High speed Disc completely rebuilt	\$99,900
2006 NH SD440A, 51' 10" paired row 5" rubber C/W 20011 P1060 430 bu cart	\$125,000

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2011 New Holland SP365 Sprayer, 1600 gal, 120', Comes with 3 yr, 3000hr power train warranty



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\$23,500

2003 Case RBX562 Round Baler



\$485,000

2015 New Holland CR8.90, 150 thr hrs, stone trap, guidance MacDon pick-up



\$125,000

2006 New Holland SD440A, 51' 10" paired row 5" rubber C/W 20011 P1060 430 bu cart

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USED EQUIPMENT

BACKHOE

2013 New Holland B110C \$80,000

BALE PROCESSOR

2003 Highline 7000HD \$6,995

2014 Haybuster 2650 \$22,500

BALE STACKER

1977 New Holland 1033 \$5,500

DISCBINE

2008 New Holland 1431 SOLD

2013 New Holland DC162 \$36,750

2000 New Holland 1431 \$11,300

2011 New Holland H7460 \$32,800

2008 New Holland 1431 \$21,300

GRAIN VAC

2015 Rem VRX CALL

Kongskilde SUC300TR SOLD

2007 Brandt 5000EX \$17,500

HEADER

2014 New Holland 425HB CALL

2014 New Holland 425HB CALL

MINI EXCAVATOR

2014 New Holland E27B CALL

MOWER CONDITIONER

2007 New Holland 1475 \$23,500

ROCK PICKER

2009 Degelman RP6000 \$15,000

ROUND BALER

2011 New Holland BR7090 \$28,995

2005 New Holland BR780 \$19,500

2002 Hesston 856A \$17,100

2014 New Holland 560 \$37,500

2009 New Holland BR7090 \$35,000

2002 New Holland 688 \$12,500

SKIDSTEER

2015 New Holland L225 CALL

2012 New Holland L225 \$37,000

2012 New Holland L225 \$42,737

TRACTOR

2012 New Holland TS6.110 \$74,995

1974 Case 1070 \$7,000

2015 New Holland T6.160 SOLD

2007 New Holland TM155 \$80,000

2013 Kubota M126GX \$95,000

WINDROWER

2015 New Holland SR200 CALL

ZERO TURN

2014 Simplicity Champion ZT \$6,295

2014 John Deere Z445 \$5,433

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Irving's potato arm plans new plant for Lethbridge

The new facility, described as the 'largest private investment' in the city's history, will require an additional 9,000 acres of potatoes

STAFF

Cavendish Farms, the potato arm of J.D. Irving Ltd., is set to build a \$350-million frozen potato-processing plant at Lethbridge to double its local capacity and replace the old York Farms plant it owns there.

Moncton-based Cavendish said it has secured a new plant site in Sherring Industrial Park, in the city's northeast corner.

With the deal comes a partnership agreement between the City of Lethbridge and Alberta governments to upgrade the municipal infrastructure at the industrial park, in support of what the province described as "the single largest private investment in the city's history."

The expanded new plant is also expected to create demand for another 9,000 acres of potatoes, which the province said "will create greater opportunities for local producers and will increase the province's value-added food-processing capabilities."

Talks between the city and the province on the infrastructure upgrades needed for the expansion of the Sherring Park are "ongoing" and expected to be finalized this spring, the province said.

Construction on the new plant is also expected to begin in the spring for completion by the summer of 2019.

"The new plant will allow Cavendish Farms to more than double its annual production capacity to meet growing demand and will

be more efficient, reducing our carbon footprint," the company said in a release.

"The opportunity to expand in Lethbridge, and remain within the region is very important to us," Cavendish president Robert Irving said in the company's release.

"Lethbridge has provided Cavendish Farms with a cross-Canada presence that has helped fuel our growth and allowed us to reach key markets."

Lethbridge Mayor Chris Spearman said the city is "thrilled with the decision by Cavendish Farms to stay in southern Alberta and the commitment they've made to our city."

Cavendish on Monday described its current Lethbridge plant, which it bought in 2012 in a \$60-million deal for Maple Leaf Foods' frozen potato business, as "aging."

The 142,000-square-foot Lethbridge plant has operated since the mid-1950s, processing potatoes under the York Farms banner until its owner, Canada Packers, merged into Maple Leaf in 1991.

At the time of the sale in 2012, Irving described the current Lethbridge plant as "a well-maintained facility whose 135 employees produce quality frozen potato products for customers in Canada, in the U.S. and in key export markets."

Cavendish is also one of several major players in the southern Alberta potato market. McCain Foods has a plant about 25 kilometres east of Lethbridge, while Lamb Weston and Frito Lay Canada operate plants at Taber, about 50 kilometres east of Lethbridge.



A rendering of Cavendish Farms' planned new Lethbridge plant. GRAPHIC: CAVENDISH FARMS

Recommended malting varieties list released

The Canadian Malting Barley Technical Centre has released its annual list of recommended malt barley varieties.

The list represents varieties that the centre recommends based on the greatest potential for performance, quality, and marketability.

The recommendations are published annually with input from grain companies, domestic and international maltsters and brewers, grower associations as well as seed companies.

"We examine selection rates and consult with industry to gauge the level of demand for specific varieties," said Peter Watts, the centre's managing director.

"The list represents malting barley varieties that we believe have the greatest potential to be selected for malt. We also recommend growers talk to their local elevators, or selectors from grain and malting companies, about the best two-row and six-row malting barley varieties to grow in their area." — Staff

Two-Row Varieties	
VARIETY	MARKET COMMENTS
CDC Copeland ¹	Established Demand
AC Metcalfe ¹	Established Demand
Bentley ²	Limited Demand
CDC Meredith ¹	Limited Demand
CDC PolarStar ²	Limited Demand
Newdale ⁴	Limited Demand
Merit 57 ²	Limited Demand
CDC Kindersley ¹	Under Commercial Market Development - Growing Demand
AAC Synergy ⁵	Under Commercial Market Development - Growing Demand
Some two-row varieties are exclusively handled by one or a limited number of companies. As a result it is recommended that producers consult with their grain company representative, local elevator operators or malting companies regarding commercial opportunities for specific varieties. For Bentley contracting opportunities contact Canada Malting Company. For CDC PolarStar contracting opportunities contact Prairie Malt-Cargill. For Newdale contracting opportunities contact Canada Malting Company or North American Food Ingredients. For Merit 57 contracting opportunities contact BARI-Canada.	
Six-Row Varieties	
VARIETY	MARKET COMMENTS
Legacy ^{3,4}	Limited Demand
Tradition ⁴	Limited Demand
Celebration ²	Limited Demand
Demand for six-row malting barley has been declining and it is recommended that producers consult with their grain company representative, local elevator operators or malting companies regarding commercial opportunities for specific varieties.	
The following companies have pedigreed seed distribution rights for those varieties that are footnoted: 1 - SeCan; 2 - CANTERRA SEEDS; 3 - Crop Production Services; 4 - FP Genetics; 5 - Syngenta	

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AIR DRILL

2009 Bourgault 3310, 65', 10"	\$128,000
2011 Bourgault 3310, 65', 10"	\$138,000
2010 Bourgault 3310, 75', 12"	\$95,000
2013 Bourgault 3320, 76', 12"	\$198,000
2013 Bourgault 3320, 75', 12"	\$139,000
2013 Bourgault 3710, 50', 10"	\$189,000
2002 Bourgault 5710, 47', 10"	\$49,900
2008 Bourgault 5710, 64', 10"	\$89,000
1997 Bourgault 5710, 54', 9.8"	\$38,000
1998 Bourgault 5710, 54', 9.8"	\$38,000
2003 Flexi-Coil 5000/3450, 57', 9"	\$89,000
2000 Flexi-Coil 6000/3450, 40', 10", Piller Openers	\$115,000
2010 Flexi-Coil P2060, 60', 10"	\$68,000
2011 NH P2070, 70', 12"	\$85,000
2008 NH SD550, 70', 10"	\$59,000
2015 CIH 700, 70', 12" spacing	Call
2007 CIH 700, 70', 10"	\$28,000

AIR TANK/CART

2010 Bourgault 6700, Tow Behind Conveyor, 3 meters	\$118,000
2013 Bourgault L6550	\$115,000
2013 Bourgault L6550	\$115,000
2008 Bourgault 6550	\$89,000
2012 Bourgault 6450,	\$115,000
2012 Bourgault 6350, Tow Behind	\$58,000
1995 Flexi-Coil 5000/1330	\$28,000
2015 Bourgault L7800	\$251,800
2011 NH P1070, Tow Behind	\$98,000
2010 Case IH 3430	\$45,000
Bourgault 3225,	\$13,500
2015 CIH 3580, Tow Behind VR Cart	Call
2010 CIH 3430	\$45,000
2008 CIH 3430	\$39,500
2007 CIH 3430	\$35,000
1996 Bourgault 4300	\$13,800

BALER/ROUND

2004 CIHRBX562, 12,600 Bales	\$13,800
2005 NH BR780,	\$13,500
2003 NH BR780,	\$11,800
2006 NH BR780A,	\$14,500
2010 NH BR7090	\$29,500

BLADE

2007 Leon 4000 STX425- Frameless	\$13,800
2011 Leon Q5000 STX Quad	\$30,000
2007 Q4000 6 way TJ450	\$19,500
2013 Leon Q5000,	\$33,000
2012 Leon Q5000, Versatile 500	\$19,500
2002 Bobcat S185	\$23,500

COMBINE

2012 NH CX8080, 1037/748 hrs ..	\$278,000
2010 NH CX8080, 1875/1348 hrs	\$249,800
2010 NH CX8080, 1755/1237 hrs	\$249,800
2010 NH CX8080, 1722/1240 hrs	\$249,800
2009 NH CX8080, 1858/1430 hrs	\$215,000
2011 NH CX8080, 1072/854 hrs ..	\$258,000
2010 NH CX8080, 1000/900 hrs ..	\$228,000
2012 NH CR8090, 1144/917 hrs ..	\$289,000
2012 NH CR8090, 1314/1041 hrs	\$299,000
2004 NH CX860, 2688/2035 hrs ..	\$119,000
2004 NH CX860, 3685/2869 hrs	\$98,000
2006 NH CX860, 2545/1895 hrs ..	\$118,000
1997 NH TX66, 3754/2781 hrs	\$28,500
1998 NH TX66, 2796/2188 hrs	\$48,000
1996 NH TR98, 2931/2211 hrs	\$39,000
1997 NH TR98, 2740/1934 hrs	\$38,000
1997 NH TR98, 2391/1622 hrs	\$39,000
2008 NH CR9070, 2279/1562 hrs	\$228,000
2010 NH CR9070, 1622/1199 hrs	\$179,500
2007 NH CR9070, 948/780 hrs	\$198,000
2007 NH CR9070, 1710/1253 hrs	\$179,000
2008 NH CR9070, 1434/1023 hrs	\$189,500
2008 NH CR9070, 1489/1020 hrs	\$195,000
2009 NH CR9070, 1597/1208 Hrs	\$179,000
2010 NH CR9070, 1300/1153 hrs	\$198,000
2010 NH CR9070, 1616/1190 hrs	\$189,000
2007 NH CR9070, 1510 thr hrs	\$148,500
2009 NH CR9080, 1347/980 hrs ..	\$249,000
2011 NH CR9090, 1087/837 Hrs	\$299,000
2012 NH CR9090, 868/632hrs	\$339,000
2012 NH CR9090, 811/576 hrs	\$369,000
2005 NH CR970, 2459/1821 hrs ..	\$138,000
2006 NH CR970, 1861/1300 hrs ..	\$149,000
2006 NH CR970, 1495/1159 hrs ..	\$178,000
2006 NH CR970, 1547/1219 hrs ..	\$159,000
2000 CIH8010, 1728/1322 hrs	\$189,000
2013 JD S680, 933/653 hrs	\$387,000

VERTICAL TILLAGE

2007 Bourgault 6000	\$25,800
2014 Salford I-4141, 41'	\$115,000
2015 Salford I-4160, 60'	\$178,000
2010 Salford 570 RTS, 30'	\$68,000
2011 Degelman 7000, 70'	\$33,000
1994 Degelman 7000, 50'	\$15,800

FEED WAGON/BALE PROCESSOR

2005 Haybuster 2650	\$14,900
2003 Lucknow 285	\$12,800

GRAIN AUGER

2001 Brandt 1390,	\$9,000
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HEADER COMBINE

2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
1999 Honeybee SP36, 36'	\$29,000
2007 Honeybee SP36	\$29,800
2013 Honeybee HP30	\$48,000
1994 Honeybee SP30,	\$9,800
2009 NH 88C, 42'	\$68,000
2001 NH 94C	\$29,000
2006 NH 94C	\$29,500
2008 NH 94C	\$29,500
2010 NH 94C, 30 CX/CR	\$36,500
2003 NH 94C, 30 CX/CR	\$29,500
2011 JD 630D, 30'	\$58,000
2012 JD 635D, 35'	\$68,000
2010 MacDon, 30', CR/CX	\$68,000
1998 MacDon 960,	\$25,000
1998 MacDon 871 TX Adaptor	\$6,000
2010 MF 5100-35,	\$58,000
2009 NH 94C, 36 CX/CR	\$39,500
2008 NH 94C-36,	\$49,500
2003 NH 94C-36,	\$39,500
1999 NH 994-30,	\$29,500
1998 NH 994-36,	\$19,000
1995 NH SP25	\$15,000
1997 Westward 9030	\$4,000

MOWER CONDITIONER

2004 NH 1475, Toung only	\$6,500
2006 NH 1475,	\$21,500
2002 NH 1475, Toung only	\$2,000
1995 NH 2216,	\$7,500
1995 NH 2216,	\$9,500
2012 NH H7460	\$33,500
1999 MF 670, 16' Hay Head	\$10,000

SPRAYER

1993 Flexi-Coil S65,	\$7,900
2003 Flexi-Coil S67,	\$19,500
2008 NH SF115,	\$24,900
2009 Spraycoupe 4660, 440 gal, 80'	\$84,500

SPRAYER/HIGH CLEARANCE

2008 Miller A75	\$139,500
2012 NH SP240	\$258,000
2009 Rogator 1084, 3160 hrs	\$159,000
2011 JD 4830, 1820 hrs	\$218,000

SWATHER

2011 MacDon D60, 35'	\$34,000
2014 NH SR200/440HB	\$169,000
1999 NH 994, 25'	\$15,000
2013 MacDon D65, 40'	\$49,500
2011 MacDon M150, 35'	\$118,000
2010 MacDon M150, 950 Hrs	\$109,500
2010 MacDon M150, 2053/1440 hrs	\$85,000
2010 MacDon M150, 35', 1848/1213 hrs	\$85,000
2012 MF 9740,	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000
1998 MacDon 960,	\$9,500
1998 MacDon 960, 25'	\$9,500
2013 MacDon M155/D6540, 520 hrs	\$138,000
2007 NH HW325, 1200hrs	\$58,000
1999 MacDon 9300	\$28,000
2014 NH SR200	\$175,000
2013 MacDon M105, 170 Hrs	\$138,000

TRACTOR

1995 Ford 8240	\$35,000
2012 Case IH U105	\$59,000
2012 NH T7.170	\$109,000
2011 NH T7.170 - LDR, 2005 hrs	\$119,000
2011 NH T7.270 AutoCommand - LDR, 2360 hrs	\$178,000
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2010 NH T7040	\$129,000
2011 Versatile 305, 1800 hrs	\$149,500
2010 Kubota BX1860	\$9,000
2008 Kubota B2320 c/w loader & mower	\$12,500

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$278,000
2014 NH T9.615, 1263 hrs	\$338,000
2014 NH T9.645, 963 hrs, Tracks/PTO/2 Pumps	\$385,000
2012 NH T9.615, 2706 hrs	\$259,000
2002 NH TJ450, 9000 hrs	\$138,000
2012 Versatile 500	\$285,000

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The award is nice, but the payoff even better for rancher

The winner of ABP's Environmental Stewardship Award grows more grass and captures more rain by working with nature

BY ALEXIS KIENLEN
AF STAFF/EDMONTON

Everything changed for Tom Thompson of Winding Creek Ranch when he attended the West Central Forage Association's AGM in 2003.

That was when the Mayerthorpe-area rancher learned about grazing principles that led to him winning Alberta Beef Producers' 2017 Environmental Stewardship Award.

"Kit Pharo (an American rancher who spoke at the meeting) was the one who started this all for me," said Thompson, who runs a cow-calf and feeder operation with father Ron and son Cole.

"He started explaining about matching the cycle to nature and resting the grass during the growing season."

To this day, a lot of producers aren't interested in intensive grazing, which requires moving cattle frequently. But it's well worth the effort, said Thompson.

"You can get 50 to 200 per cent more forage growth by doing these practices. Why wouldn't you do this? It's like someone giving you a couple of extra quarters of land that you don't have to buy or fence or pay taxes on."

The Thompsons, who will be calving 200 females this spring, run all the cattle together on grass so they have higher stock density and more land resting. They move cattle every day throughout the grazing season by using electric fencing, and bale graze in winter.

Their ranch is also designed to run on low inputs and Thompson was an early adopter of the Environmental Farm Plan, completing his assessment in 2004. That enabled him to secure Growing Forward funds to fence off waterways and install solar-powered watering systems.

"It keeps the water cleaner and the animals have their feet dry," he said. "You see so many times where these animals run over these banks and they tear the soil, and that's where the weeds start. Then they blow all over the country."

Thompson also matches the forage cycle to the cattle production cycle.

"We know that a lactating cow will take more feed than a dry one. We know that grazing is 50 per cent cheaper than prepared feed. We're just matching this all up," he said.

"These are little tools that help you run a little bit of a better ship. We work in sync with nature, using grass management and water development; recycling nutrients; and no animals shoved in pens anymore. That's basically what we're doing in a nutshell."



Tom Thompson and father Ron took their operation to a new level after Tom had a lightbulb moment during a presentation on intensive grazing in 2003. PHOTOS: ALBERTA BEEF PRODUCERS

"This is not something you go for a weekend course on, and then you've got it all figured out. Once you've finished a step, you can start another step."

TOM THOMPSON

Since the cattle are on fresh forage every day during the grazing season, they receive better nutrition and grow faster. Having a lot of cattle in a paddock ensures plants get stepped on, bitten down, and receive valuable nutrients from manure and urine.

"Then we move them out of there and the area has a proper rest period, so we can have the residual (grass) that we want, even if it doesn't rain," said Thompson. "We can't control how much rain comes on our ranch, but we can control how much comes off of it. Even the dews in the morning, when you have the residual there, you will be holding moisture."

The ranch's grazing systems are well suited to smaller, hardier animals.

"The bigger, framier ones work better on a different program, like a ration in a feed yard with silage, hotter feeds, and



Winding Creek Ranch's entire herd is moved from one small paddock to another, a practice that has greatly increased forage production.

grain," he said. "If you have a smaller, hardier animal, it has more capacity and works better on a forage operation like this."

Thompson purchased the land to create Winding Creek Ranch in 1985. Since his initial involvement with the West Central Forage Association, he's taken numerous courses and workshops on ranching, including a holistic management course.

"This is not something you go for a weekend course on, and then you've got it all figured out," he said. "Once you've finished a step, you can start another step."

Thompson likes to experiment with his management,

but talks to other producers and does intensive research before he makes changes.

"No one wants to jump feet first into a wreck, especially when you're in a management role and there are people around you who are affected," he said. "The last thing you want is some kind of mistake. If this happens, if it's a small little thing, then we can fix it, but if you have a huge wreck that can be devastating."

Ranchers are nominated for ABP's Environmental Stewardship award, now 25 years old, by their peers. Thompson was nominated by the West Central Forage Association.

akienlen@fbcpublishing.com

what's up

Send agriculture-related meeting and event announcements to:
glenn.cheater@fbcpublishing.com

Jan. 4: Cattle Marketing Workshop, Triangle Hall, 15 kilometres west of High Prairie (also Jan. 5 in Manning and Jan. 6 in Grande Prairie). Contact: Jen 780-835-6799 ext. 3

Jan. 9 and Feb. 6: Transition Planning Workshops for Farm and Ranch Families; 1715 Mayor Magrath Dr., Lethbridge (also Jan. 10/Feb. 7 in Airdrie; Jan. 11/Feb. 8 in Lacombe; Jan. 12/Feb. 14 in Camrose; Jan. 16/Feb. 13 in Vermilion; Jan. 17/Feb. 14 in Westlock; and Jan. 18/Feb. 16 in Grande Prairie). Contact: Ag-Info Centre 1-800-387-6030

Jan. 11: Closing the Gap (Creating a more profitable business), Agriculture Centre, Airdrie. Contact: Vince 403-340-5545

Jan. 12: 2017 Organic Agronomy Training Program, Lacombe Memorial Centre, Lacombe. Contact: Iris Vaisman 587-521-2400

Jan. 13-15: 35th Anniversary Alberta Horse Conference, Sherwood Park Conference and Community Centre, Sherwood Park. Contact: Horse Industry Association of Alberta 403-420-5949

Jan. 14: Keeping Your Small Flock Healthy, Peavey Mart Head Office, Red Deer (also Jan. 28 in Whitecourt). Contact: Dr. Chunu Mainali 780-415-9624

Jan. 16: Manure Management Update 2017, Lethbridge Lodge Hotel, Lethbridge. Contact: Ag-Info Centre 1-800-387-6030

Jan. 16-17: Farmer's First Aid, Airdrie Ag Centre, Airdrie. Contact: Rachel McLean 403-700-7406

Jan. 17: Cattlemen Clinic, location t.b.a., Smoky Lake (also Jan. 18 in Flat Lake). Contact: Lara 780-826-7260

Jan. 17-18: Agronomy Update 2017, Lethbridge Lodge Hotel, Lethbridge. Contact: Ag-Info Centre 1-800-387-6030

Jan. 18: Getting Into On-Farm Retail Bus Tour, starts near Aldersyde. Contact: Karen Goad 780-538-5629

Jan. 18: Septic Sense - Solution for Rural Living, New Sarepta Agriplex, New Sarepta (also Jan. 25 in Buck Lake). Contact: Heather Dickau 780-955-3555 ext. 3287

Jan. 18-19: Adding it Up: Getting a Handle on Your Greenhouse Financials, Red Hat Co-op, Redcliff (also Jan. 25-26 in Lacombe). Contact: Ag-Info Centre 1-800-387-6030

Jan. 19: Calving Clinic, Heritage Inn, Pincher Creek. Contact: Rachel McLean 403-700-7406

Jan. 24: Winter Watering Systems Workshop and Tour, Goodridge Hall, Goodridge. Contact: Lara 780-826-7260

Choirs can raise funds to combat global hunger

CANADIAN FOODGRAINS BANK RELEASE

Choirs are invited to sing, celebrate, and raise funds to help put an end to global hunger as part of Common Vision, a do-it-yourself free concert package from Canadian Foodgrains Bank.

Funds raised from this year's concerts will go to support people affected by conflict and natural disaster in places such as Syria and Haiti.

Common Vision builds on the success of last year's Spring Into Song concert package, which saw 41 community and church choirs from Vancouver Island to Charlottetown raise almost \$80,000 to help fund training programs for small-scale farm families in East Africa. In Alberta, concerts were held in Vulcan, Clairmont, Spruce Grove, Lethbridge, Edmonton, and Calgary.

"The feedback we received from last year's concerts was outstanding," said

James Kornelsen, public engagement co-ordinator for the Foodgrains Bank.

Several communities who put on concerts last year have already signed up to do so again this year, he said.

"The message we heard from choirs was that a free concert package that includes not only music, but video and graphic components, and ongoing support for publicity is something that makes a lot of sense for them."

Participating choirs are sent a customizable package that includes all music, rehearsal recordings, publicity materials, and detailed task descriptions. Further support is available through the Foodgrains Bank office. All the music is composed by Canadian composer Ron Klusmeier and is customizable according to choir size and ability.

For more information, visit www.foodgrainsbank.ca/campaigns/common-vision or call Tami Duff at 1-800-665-0377.

Helen Andrews and Corine Verbeek join 4-H Hall of Fame

Helen Andrews and Corine Verbeek are the 2016 inductees into Alberta's 4-H Hall of Fame.

Andrews of Round Hill has been a 4-H leader and volunteer for 40 years in many roles, including district treasurer, secretary, and regional secretary. She was a founding member of the Focus on 4-H regional project showcase and has also been involved in numerous community organizations, including the Round Hill Agricultural Society.

Verbeek lives in Sturgeon County and has been a 4-H leader and volunteer for more than 30 years, including as a district key leader and president, northwest regional president and provincial equine leaders' forum committee member. She is described as someone with extreme passion and enthusiasm who is always willing to do whatever is needed to make a 4-H event successful or help 4-H members learn.

The Hall of Fame recognizes exceptional 4-H leaders for exemplary service, mentorship, and volunteerism in their communities. Candidates are nominated by their 4-H peers. — AAF



Corine Verbeek, (left), and Helen Andrews are the latest inductees into the 4-H Hall of Fame.

PHOTO: ALBERTA AGRICULTURE

More than Good enough

Farm finance expert Merle Good has been recognized for his work in advancing agricultural business management practices by being named this year's winner of the Wilson Loree Award.

The former provincial tax specialist has "a passion for farm management," said Rick Taillieu, who nominated Good on behalf of the Alberta Canola Producers Commission.

Good, who retired from the civil service in 2014, now works as a consultant; is a frequent speaker on topics such as business structures and succession planning; and is known for his lively presentations and down-to-earth practical advice. He is also known for helping others in his field, including working on an annual tax update for professionals in Alberta and Saskatchewan.

Loree, the retired head of the province's ag business management division, presented his former colleague with the award, created by Farm Management Canada, at the organization's recent conference in Calgary. — Staff

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MAYERTHORPE RANCHER WINS ABP ENVIRONMENT AWARD

Alberta Beef Producers (ABP) presented Tom Thompson and Winding Creek Ranch with the 2017 Environmental Stewardship Award in December at the Annual General Meeting. Each year, ABP recognizes an operation that demonstrates leadership in environmental stewardship – one that contributes to the land while improving productivity and profitability.



Tom Thompson grew up in farming and agriculture, but it wasn't until the property across from his parents' land became available in 1984 that he decided to build a career and a life in ranching. Today, Winding Creek Ranch is a cow calf operation that rotationally grazes 500 acres, with 700 acres of hay crops.

"Growing up there was something always pulling me into this direction... being a steward of the land. What sustainability means to me is, what you're doing today, will this carry on for generations," said Thompson.

The West-Central Forage Association played a large role in changing the focus and management practices on the ranch. Frustrated with some outcomes, Tom attended a seminar on matching production cycles with grazing cycles

and began to make significant improvements to his operation. After incorporating changes to his winter grazing, watering systems and power fencing for rotational grazing, Tom completed an Environmental Farm Plan.

"When the forage and the grass are growing, and the animals are happy... you will be profitable and sustainable. My stewardship goals are to keep the animals and the plants healthy, growing and viable," said Thompson.

When rotationally grazing his animals, Tom adheres to the adage of eat half, leave half so the grass has plenty of time for rest and regrowth. Cattle bale graze through the winter months to recycle nutrients back into the soil. Riparian

areas and dugouts are fenced to keep cattle out, and water is pumped to solar powered watering systems.

"I'm out in the sunshine working with plants and animals. When you have a passion for something it isn't really work. You want to be out there doing a good job and seeing the changes. We're just caretakers here... borrowing this land from the next generation," said Thompson.

Watch the 2017 Environmental Stewardship Award video online at: vimeo.com/194756179.



NEW HOLLAND DEALERS



'16 New Holland CR8.90

Eng: 333 / Sep: 267 - 620/70R42 Duals, Mech Trap, 90mm Cyl, Leather Seat, Ext Wear Pkg, LED Light Pkg, 8.9m Unload Auger, 4-Row Chopper
\$475,000 - Swift Current



'15 New Holland CR8.90

Eng: 547 / Sep: 410 - 620/70R42 DUALS, MECH TRAP, 90mm CYLINDERS, LEATHER SEAT, EXT WEAR ELV, LED LIGHT PKG, 8.3m UNLOAD AUGER, 4-ROW CHOPPER
\$449,000 - Swift Current



'14 New Holland CR7090

Eng: 1072 / Sep: 782 - '14 UPGRADE, 620/85R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$275,000 - Swift Current



'13 New Holland CR7090

Eng: 1167 / Sep: 763 - 620/85R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$250,000 - Swift Current



'14 New Holland CR8090

Eng: 610 / Sep: 510 - '14 UPGRADE, 620/70R42 DUALS, MECH TRAP, LATERAL TILT, 90mm CYL, 6.7m AUGER, DLX CHOPPER, HID LIGHT PKG
\$425,000 - Swift Current



'13 New Holland CR8090

Eng: 1156 / Sep: 890 - 520/85R42 DUALS, MECH TRAP, LEATHER SEAT, 90mm CYL, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$349,000 - Medicine Hat



'11 New Holland CR9070

Eng: 1310 / Sep: 1090 - DUALS, ELEC TRAP, AUTOGUIDANCE NAV II, LONG AUGER, DLX CHOPPER, HID LIGHT PKG
\$219,000 - Medicine Hat



'12 New Holland CX8090

Eng: 720 / Sep: 489 - DUALS, MECH TRAP, LEATHER SEATS, FULL STEERING, ELEC G/T COVERS
\$295,000 - Taber



'10 New Holland CR9090Z

Eng: 1018 / Sep: 786 - 900/60R32, ELEC TRAP, AUTOGUIDANCE, HID LIGHT PKG
\$285,000 - Brooks



'14 New Holland CR8090

Eng: 614 / Sep: 448 - '14 UPGRADE, DUALS, MECH TRAP, 80mm CYL, DLX CHOPPER, EXT WEAR PKG, HID LIGHT PKG, ENG AIR COMPRESSOR, 8.3m AUGER
\$425,000 - Swift Current



'14 New Holland CR9090

Eng: 631 / Sep: 441 - '14 UPGRADE, 620/70R42 DUALS, MECH TRAP, 90mm CYL, LEATHER SEAT, EXT WEAR PKG, 4-ROW CHOPPER, HID LIGHT PKG
\$449,000 - Shaunavon



'11 New Holland CR9080

Eng: 1789 / Sep: 1322 - 620/70R42 DUALS, ELEC TRAP, 80mm CYL, LEATHER SEAT, EXT WEAR PKG, DLX CHOPPER, HID LIGHT PKG
\$249,000 - Shaunavon



'10 New Holland CR9060

Eng: 2150 / Sep: 1850 - 900/60R32, DLX CHOPPER, INTELLIVIEW ii+, YIELD AND MOISTURE SENSORS
\$189,000 - Moose Jaw

2012 New Holland CR8090 Combine Engine Hours: 1146 Sep Hours: 831 YCG115551	\$320,000 SC
2013 New Holland CR8090 Combine Engine Hours: 1017 Sep Hours: 778 YDG118015	\$349,000 SH
2013 New Holland CR8090 Combine Engine Hours: 830 YDG116711	\$349,000 MH
2014 New Holland CR8090 Combine Engine Hours: 705 Sep Hours: 519 YDG118054	\$359,000 SH
2014 New Holland CR8090 Combine Engine Hours: 550 YEG118872	\$425,000 SC

2014 New Holland CR8090 Combine Engine Hours: 614 Sep Hours: 448 YEG118934	\$425,000 SC
2013 New Holland CR9090 Combine Engine Hours: 842 Sep Hours: 573 YDG116744	\$360,000 SH
2009 New Holland CR9070 Combine Engine Hours: 1997 Sep Hours: 1455 Y9G113117	\$219,000 SH
2011 New Holland CR9070 Combine Sep Hours: 1820 YBG114058	\$219,000 SC
2010 New Holland CR9060 Combine Engine Hours: 1692 Sep Hours: 1266 Y9G113084	\$159,000 SC

2005 New Holland CR960 Combine Engine Hours: 2954 Sep Hours: 2175 HAJ102214	\$99,000 MJ
2011 New Holland CX8080 Combine Engine Hours: 3500 311778019	\$149,000 SC
2015 New Holland 880CF Header Combine Width in Feet: 40'W YFH042470	\$85,000 SC
2012 New Holland 94C Header Combine Width in Feet: 40'W 40GB111274	\$55,000 SC
2015 Honey Bee Airflex F45 Header Combine Width in Feet: 45'W 504645AF15	\$80,000 SH



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NEW PROVINCIAL VBP+ CO-ORDINATOR HIRED IN ALBERTA

Melissa Downing is the new provincial co-ordinator for the Verified Beef Production Plus program. Downing is an agrologist, and she and her husband raise cattle near Metiskow in east-central Alberta. This is a pivotal time in the beef industry and VBP+ “has the potential to establish Canada as a leader in sustainable verification and result in increased demand for our beef,” she said. The newly launched VBP+ goes beyond on-farm food safety by including modules on environmental stewardship, biosecurity, and animal care. — Alberta Beef Quality Starts Here agency

TALKING TO KIDS ABOUT WHERE FOOD COMES FROM

The Classroom Agriculture Program is seeking volunteers willing to go to schools and talk to Grade 4 students about agriculture. Since 1985, producers and others in the ag sector have made presentations to more than 600,000 students. The provincially funded program provides participants with training for their one-hour presentation (in March, April, or May) as well as materials for the classroom. Volunteers focus on their area of farming or specialty, and preparing takes about five hours. For more info, go to www.classroomagriculture.com. — Classroom Agriculture Program

MORE NEWS

Grasslands a star at carbon sequestration

Studies done by the University of Alberta found grazing increases pasture productivity and biodiversity as well as storing carbon

BY JENNIFER PAIGE
STAFF

Grasslands punch above their weight when it comes to carbon sequestration.

That's the conclusion of a researcher who started his career on an Alberta-wide study of how land use affects that province's carbon pool.

Grasslands can and do store an enormous amount of soil carbon, said Daniel Hewins, now an assistant professor at Rhode Island College in Providence.

“Temperate grasslands make up about eight per cent of the earth's surface but they hold a lot of carbon, an estimated 300 gigatons is what we have seen,” Hewins said at a forage conference earlier this winter.

“About nine gigatons or three per cent of that is above ground in plant material and about 295 gigatons is in the soil. So, it is really important to value that soil and value that soil carbon.”

The research study involved 144 grassland enclosures, including both grazed and ungrazed sites.

“Many of the ungrazed sites have not been grazed by livestock for more than 60 years so this really gave us the opportunity to sample native prairie in both grazed and ungrazed communities in a paired setting,” Hewins said.

In fact, Hewins stressed that this sort of work is unprecedented in its scale and allows researchers like him a new window into what happens below our feet.

“This is really a one-of-a-kind comprehensive study looking at how grazing affects carbon stores and grassland biodiversity across up to six different agro-climatic zones,” he said.



Daniel Hewins, assistant professor of biology specializing in ecosystem ecology at Rhode Island College spoke about his research study conducted at the University of Alberta on the impacts of grazing. PHOTO: JENNIFER PAIGE

“We are really aiming, with our research, to get a provincial-scale assessment of how land use and livestock grazing affect plant communities and how that subsequently affects carbon storage. And then, how can we assign some monetary value to that or some incentive for ranchers and those of you who are out there doing the work to protect these ecological goods and services.”

The study, his post-doctoral fellow research, was conducted at the Rangeland Research Institute in the department of agriculture, food and nutritional science at the University of Alberta in Edmonton. It ran from 2013 to 2016 and measured the effects of livestock grazing on the carbon nutrient cycling in the grasslands of central and southern Alberta.

Differences

Not all grasslands are the same and the study revealed some profound differences based on management and environment.

In wetter environments, there is an increase in introduced species and grazing them promotes the biodiversity of perennial native grasses.

“With grazing in some of these wetter environments we saw an increase in diversity, so the number of species in a community,” he said. “When we have moisture available to plants, we were seeing an increase in diversity as a response to grazing, so grazing is actually stimulating biodiversity in these systems.”

The study also identified an increase in productivity and increased biodiversity under grazing.

“All of these things are pointing to the fact that grazing in these grassland systems is essentially good for these ecological goods and services,” Hewins said. “Grazing not only seems to promote biodiversity of our perennial native grasses, it also seems to limit shrub encroachment into our grassland environment.”

“This is particularly important in places like the Rocky Mountain foothill region, or the Rocky Mountain forest reserve where grazing land is already quite limited due to the nature of the ecosystem.”

Grazing also stimulated root production, which increases plant biomass and ultimately leads to the formation of soil carbon.

Incentives

Hewins, along with many others within the forage sector, believe that incentives should be put in place to encourage producers to avoid converting grasslands and to manage the land in a way that is sustainable.

“Although there is no willingness to pay for what is stored in the grasslands, there should be a point made that we are protecting what is there by managing the land effectively or sustainably in that way,” Hewins said. “If grasslands are converted it is also difficult to get that carbon back, so when we seed back to native, there have been some studies done and it looks like it takes more than 50 years to get that carbon pool back up to where it really was before conversion.”

“Ultimately, there needs to be a willingness to pay to protect some of this carbon because not only is it stored and protected in grasslands, it is also very, very difficult to get back into the soil.”

In order to achieve any progress towards incentives, Hewins said the industry needs data to support what is truly happening on the landscape.

“We are working at generating a lot of this data to say, look, we are standing on a gold mine here and we need to incentivize and value this carbon stock that is in our native grasslands and our prairies,” he said. “Essentially there needs to be voices that are echoing these messages and these messages need to be supported by data.”

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Calves can safely consume more milk than thought

Feeding young calves more milk can also cut down on antibiotic use and have other benefits

BY SHANNON VANRAES
STAFF

Feeding dairy calves more milk early in life might not be a cheap proposition in the short term, but with a longer view the benefits are clear.

It's also a safe practice, says a University of Alberta dairy researcher.

"Based on the research data we have accumulated over the last two years, it's acceptable to feed up to eight litres — we don't know if it's acceptable to feed more than eight litres — but that is still two very large meals of four litres a day," Michael Steele said at a recent dairy farmers' conference in Winnipeg.

Research has shown — based on insulin sensitivity results — that high feeding levels prior to weaning don't result in negative outcomes. For years it has been assumed that large meals could result in overflow into the rumen, but Steele said slower emptying from the abomasum (or true stomach) is triggered by the increased consumption to self-regulate the calf's digestion.

"There are a lot of good studies showing that a gain in early life is correlated to lifetime production."

While there is anecdotal evidence that calves can be fed as much as 12 litres of milk a day over three feedings, Steele said that scientific studies have yet to back that up.

However, studies have shown that the lifetime milk production of cows fed more in the first weeks of life is higher than those that were fed less. Calves fed more milk also grew faster and were generally healthier, requiring fewer interventions such as antibiotics than those that consumed less milk.

"There are a lot of good studies showing that a gain in early life is correlated to lifetime pro-

duction," he said. "And that is a benefit in the long term."

But in practice, most producers feed calves less than eight litres of milk a day, partially because they are unaware of the benefits of feeding more, but also because of the cost, he said.

"If you are over quota it's good, but if you're under quota it's not very economical to feed large quantities in the short term," he said. "If you just purely look at the short-term growth, it doesn't make any sense to feed more milk, so what you are doing this for is to improve overall health and production lifetime."

Producers who adopt this type of feeding regimen should also be aware it will result in looser stool, which should not be mistaken for diarrhea in young calves.

Steele suggests taking staff to check out farms where the practice is already in use if you are just introducing it to your own operation.

"I think the only way to really crack that is to show them other scenarios and show them the growth rate, what it looks like," he said.

shannon.vanraes@fbcpublishing.com

CFIA proposes new humane livestock transport regulations

BY ALEX BINKLEY
AF CONTRIBUTOR

The Canadian Food Inspection Agency has released proposed amendments to its humane livestock transportation regulations, the first significant update of rules that date back to 1997.

The regulations are available for comments from farm and other organizations until Feb. 15. After that, CFIA will assess the comments and draft the final version, which will likely appear this fall. The revised rules will come with a year-long implementation period.

Farm groups won't find any surprises in the proposals, said the agency's national manager of animal welfare, biosecurity and assurance programs.

CFIA has been involved in the discussions on animal care codes conducted by the National Farmed Animal Care Council, which include humane transport provisions.

"We've been having this discussion for 10 years," said Cornelius Kiley.

The previous regulations were set almost 40 years ago and the proposed revisions cover everything from assessment of livestock's fitness for transport to dealing with unfit and compromised animals and shipments in hot and cold weather. Rules for feed, water and rest every 12 hours are also set out.

The proposed regulations are



CFIA says the livestock industry won't find any surprises in proposed amendments to humane livestock transportation regulations. PHOTO: THINKSTOCK

intended "to better align Canada's requirements with current industry practices, international standards, new science and societal expectations about the proper care and transport of all animals into, within and out of Canada," the CFIA said.

CFIA documents say a small portion of commercial carriers that transport animals by land would bear additional costs, but the majority would see no significant change.

"An estimated 98 per cent of all shipments are already in compliance with the proposed amendments," the CFIA stated. "Some processors in the poultry industry may experience incremental costs associated with changes in management practices, but will realize cost savings in relation to the benefits resulting from these changes. The present value of the total industry costs is estimated to be approximately \$3.9 million."

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January 12 - Manitoba Co-operator

January 16 - Alberta Farmer Express

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Elimination of 'four-in, four-out' rule praised by farm groups

The change to the federal temporary worker plan was especially hard on agricultural employers

STAFF

Canadian farm groups hailed Ottawa's decision to axe the cumulative duration rule — or "four-in, four-out" policy — which stood to sideline temporary foreign workers from the Canadian market.

The cumulative duration rule had been in place since April 2011, limiting work for some temporary foreign workers (TFWs) in Canada to four years who then became ineligible to work in Canada for the next four years.

"In many ways, the four-year rule put a great deal of uncer-

tainty and instability on both temporary workers and employers," Immigration Minister John McCallum said in a release. "We had the sense that it was an unnecessary burden on applicants and employers, and also on officers who process applications."

The government also said it would maintain a cap on the proportion of low-wage TFWs that can be employed at a given worksite at 20 per cent for employers who have used the program since before June 20, 2014, and at 10 per cent for employers who accessed the program after that date.

An exemption on the cap for "seasonal" industries seeking TFWs for up to 180 days during the 2017 calendar year will be extended, however, until Dec. 31, 2017.

The government also said it will require low-wage employers, where appropriate, to first advertise to more than one and up to four "under-represented" groups in the workforce, including youth, persons with disabilities, indigenous people, and newcomers.

The Canadian Federation of Agriculture hailed the end of the four-year rule, saying it "created unnecessary hardship for

employers already struggling to fulfill their labour requirements."

The CFA said it also "looks forward to obtaining more details" of the planned requirement for employers to advertise job opportunities to under-represented groups.

"Connecting with these communities is a priority for the industry and CFA is working with other stakeholders to address current barriers that confront those interested in working in the sector."

Dan Kelly, president of the Canadian Federation of Independent Business, concurred in a separate release, saying "the artificial

caps on the percentage of foreign labour may make sense in parts of Canada, but for smaller businesses in rural and remote parts of Canada, there are few other options."

His organization, he said, is "thrilled to hear the government is looking to 'further develop pathways' to permanent residency," noting "small firms I speak to want the 'temporary' taken out of the foreign worker program."

The CFIB noted it has previously recommended setting up an "Introduction to Canada" visa that would start foreign workers on a pathway to permanent residency.



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ANTIQUER VEHICLES

IHC TRUCKS: 195 1/2 ton, LWB, yellow, restored; 1951 3 ton red Fire truck; 1951 2 ton w/grain box, green; 1954 2 ton, grain box, blue. 306-867-7188, Outlook, SK.

WANTED: VOLKSWAGEN split window van/truck, pre-1967; Also want pre-1960 Beetles. Call 306-222-7376, Warman, SK.

ANTIQUER MISC.

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

ANTIQUES AND COLLECTIBLES Sale, Piapot Lions Club 18th Annual at Maple Creek Armories, Maple Creek, SK, January 28 and 29, Saturday, 10:00 to 5:00 and Sunday, 10:00 to 3:00. Call 306-558-4802.

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NEW NEW 2017 STEPDECK beavertail, 48' tandem axle, flip ramps, \$31,900. Warranty. Call 306-563-8765, Canora, SK.

BELLY DUMP GRAVEL TRAILER, tandem axle, load close w/air, Sask, safetied, \$15,000. 306-940-6835, Prince Albert, SK.

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1985 MANAC 45' flatdeck trailer, 12000x22.5 tires, \$2500. 306-842-5710, Weyburn, SK.

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1995 LODE-KING SUPER B grain trailers, spring ride, SK, safetied, \$23,000. 1980 Muv-All 28' equipment trailer, winch, hyd. beavertail, 25 ton capacity, \$24,000; 1998 Loadline 28' end dump, tandem, spring ride, \$22,000; 1998 Loadline 29' end dump, tandem, air ride, \$25,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK. DL#910420.

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2008 WESTERN STAR, 10 spd. Eaton AutoShift, new 20' BH&T; 2008 tandem IH 7600, Cummins, 10 spd., new BH&T; 2004 Pete 330 S/A, Cat Allison auto. w/new 16' BH&T. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

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

2002 IH 2600 w/IH 320 HP eng., 10 spd., 221,000 kms, new 20' BH&T, exc. rubber, vg., \$49,500; 2009 Mack CH613, MP8 Mack eng., 430 HP 10 spd., AutoShift, 463,000 kms, exc. shape, new 20' box, A/T/C, \$73,500; 2009 IH Transtar 8600 w/Cummins eng. 10 spd., AutoShift, new 20' BH&T, 742,000 kms, exc. tires, real good shape, \$69,500; 2007 IH 9200, ISX Cummins, 430 HP, AutoShift, alum. wheels, new 20' BH&T, fully loaded, 1,000,000 kms, real nice, \$67,500; 2009 Mack CH613, 430 HP Mack, 10 spd., AutoShift, new 20' BH&T, alum. wheels, 1.4 million kms, has bearing roll done, nice shape, \$69,500; 2007 Kenworth T600, C13 Cat, 425 HP, 13 spd., AutoShift, new 20' BH&T, alum. wheels, new paint, 1.0 million kms, exc. truck, \$71,500; 1996 Midland 24' tandem pup grain trailer, stiff pole, completely rebuilt, new paint and brakes, exc. shape, \$18,500; 1985 Ford L9000, Cummins, 10 spd., 20' BH&T that's been totally rebuilt, new paint, exc. tires, \$28,500; 1999 IH 4700 S/A w/17' steel flatdeck, 230,000 kms, IH dsl., 10 spd., good tires, \$19,500; 1998 Freightliner tractor, C60 Detroit, 430 HP 13 spd., alum. wheels, sleeper, good rubber, \$17,500; 2005 IH 9200 tractor, ISX Cummins, 430 HP 13 spd., alum wheels, flat-top sleeper, good rubber, \$22,500. All trucks Sask safetied. Trades considered. All reasonable offers considered. Call Merv at 306-276-7518 res., 306-767-2616, cell, Arborfield SK. DL #906768.

2004 PETERBILT 330, tandem axle, C&C, long WB, Cat dsl., 10 spd trans, AC, low miles, alum. wheels, \$26,900, w/new B&H \$48,900. K&L Equipment and Auto. Ph Ladimer, 306-795-7779 Ituna. DL#910885

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2004 MACK TANDEM AXLE dump truck, fresh AB, safety, low kms, very clean, good condition. Call 780-983-0936, Clyde, AB.

NEW CANUCK GRAVEL TRAILERS: 1999 Arne's tridem end dump, clean; 1996 IH 9400, 60 Detroit, 10 spd, 16' gravel box, alum rims. Ron Brown Imp. 306-493-9393, DL 905231 www.rbisk.ca

2012 IHC TRANSSTAR, low pro, Max 300 HP diesel Allison auto trans, single axle, loaded cab, 13' Armstrong landscape dump, \$39,900.; 2003 GMC C8500 tandem, automatic, with 15' box, low miles, \$34,900. K&L Equipment and Auto. Ladimer, 306-795-7779, Ituna DL#910885

SEMI TRUCKS

2006 FREIGHTLINER tandem axle, daycab, Mercedes power, auto trans, nice clean safetied tractor, \$19,500. 780-983-0936, Clyde, AB.

2005 PETE 378, pre-emission, C15 Cat, 18 spd., full lockups, flat-top, winch, safetied, \$37,500. 306-563-8765, Canora, SK.

T800 KENWORTHS ALL HEAVY SPECS 18 spd., full lockers, 2008. Also daycab 2009, new trans. and clutch; 2009 KW T660, new ISX Cummins, tranny, and clutch, 18 spd., lockers; 2008 IH 9900 daycab, 260,000 kms., ISX Cummins, 18 spd., lockers; 2007 Pete 379, daycab and bunk; 2013 IH 5900i, 42' bunk, 46 diff., 4-way lock, 18 spd., 390,000 kms; 2007 IH 9200, daycab, ISX 435, 13 spd; 1996 Kenworth T800, 475 Cat, 13 spd, rebuilt diffs and tranny. Ron Brown Implements, Delisle, SK, 306-493-9393. DL #905231 www.rbisk.ca



2010 IHC PROSTAR, 500 HP Cummins, 18 spd., 46 rear lockers, Jakes, fresh safety, new rubber, \$49,900. Cam-Don Motors, 306-237-4212, Perdue, SK.

WANTED: MACK COMPLETE or parts: 1985-1990 R-688; 1990-1999 RD-688 and 427-454 engine. Selling: Camelback susp., 4:42 diffs, 15 spd. Eaton, 350 HP engine. 306-960-3000, St. Louis, SK.

1989 IH EAGLE, 425 CAT, 3406 engine, 5th wheel, 24.5 alum. budds, white, \$16,500. 306-960-3000, St. Louis, SK.

2001 KENWORTH W900, C15 Cat 6NZ with bunk, \$42,000. 306-452-8081, Redvers, SK

CONSULTING

2901

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FULLY LOADED 2009 GMC 3500 4x4 pickup and new DewEze bale handler. Phone Dave 403-627-2601, Pincher Creek, AB.

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1997 MACK RD688, 100 barrel water tank, pump, etc., 400 Mack, 24.5 wheels, white, \$16,500. 306-960-3000 St. Louis SK

2007 CHEV C6500, 2 WD, Duramax dsl., 7 spd. trans, 20' flatdeck w/winch, only 152,000 kms, \$21,900. 2008 Dodge 3500, 2 WD, Hemi gas engine, auto trans, 16' flatdeck, 178,000 kms, \$16,900 OBO. 2001 STERLING 9500, tandem water truck, 4500 gal. tank, C12 Cat, 13 spd., Bowie pump, \$22,900; 1998 FREIGHTLINER FL80, tandem water truck, Allison trans, 3200 gal. water tank w/Honda GX160 pump, 293,000 kms, \$21,900. Trades considered. K&L Equipment and Auto. Ph. Ladimer, 306-795-7779, Ituna, SK. DL#910885.

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2010 JD 624J wheel loader, 5000 hours, excellent condition, QA. 780-983-0936, Westlock, AB.

2004 CAT D7R-XR Series II angle dozer, full canopy and ripper. 780-983-0936, Westlock, AB.

2006 LINK-BELT 210 excavator, \$60,000 work order, 6000 hours, no thumb, \$33,000. Call 780-307-5235, Clyde, AB.

2006 HITACHI 270, good undercarriage, no thumb, 9000 hours, \$60,000. Phone 780-307-5235, Clyde, AB.

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1972 CAT D7F, bush equipped, good cond; 10' HD rome plow, wheel transport, good cond. Info. 306-342-7509, Medstead, SK.

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USED, REBUILT or NEW engines. Specializing in Cummins, have all makes, large inventory of parts, re-powering is our specialty. 1-877-557-3797, Ponoka, AB.

DIESEL ENGINES, OVERHAUL kits and parts for most makes. Cat, CIH, Cummins, Detroit, Mack. M&M Equipment Ltd., Parts and Service phone: 306-543-8377, fax: 306-543-2111, Regina, SK.

290 CUMMINS, 350 Detroit, 671 Detroit, Series 60 cores. 306-539-4642, Regina, SK

WANTED DIESEL CORES: ISX and N14 Cummins, C15 Cats, Detroit's Ddec 3, 4, DD15. Can-Am Truck 1-800-938-3323.

ELECTRICAL MOTORS
3825

FARM AND INDUSTRIAL ELECTRICAL motor sales, service and parts. Also sale of, and repairs to, all makes and sizes of pumps and phase converters, etc. Tisdale Motor Rewinding 1984 Ltd., 306-873-2881, fax 306-873-4788, 1005A-111th Ave., Tisdale, SK. tmr@sasktel.net Website: www.tismtrrewind.com

FARM BUILDINGS
4000

DIAMOND CANVAS SHELTERS, sizes ranging from 15' wide to 120' wide, any length. Call Bill 780-986-5548, Leduc, AB. www.starlinesales.com

PRE-ENGINEERED STEEL BUILDINGS for all your agricultural, equestrian, industrial, shop or storage needs. Call 306-249-2355 for a free quote. Montana Construction www.montanasteelbuilders.ca Saskatoon.

STRAIGHT WALL BUILDING packages or built on site. For early booking call 1-800-667-4990 or visit our website: www.warmanhomecentre.com

AFAB INDUSTRIES POST frame buildings. For the customer that prefers quality. 1-888-816-AFAB (2322), Rocanville, SK.

FARM BUILDINGS
4000

WOOD POST BUILDING packages or built on site. For early booking call 1-800-667-4990 or visit our website: www.warmanhomecentre.com

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BEHLEN STEEL BUILDINGS, quonsets, convex and rigid frame straight walls, grain tanks, metal cladding, farm-commercial. Construction and concrete crews. Guaranteed workmanship. Call your Saskatoon and Northwest Behlen Distributor, Janzen Steel Buildings, 306-242-7767, Osler, SK.

BEHLEN STEEL BUILDINGS, quonsets, convex and rigid frame straight walls, grain tanks, metal cladding, farm-commercial. Construction and concrete crews. Guaranteed workmanship. Call your Saskatoon and Northwest Behlen Distributor, Janzen Steel Buildings, 306-242-7767, Osler, SK.

POLE BARN, WOODSTEEL packages, hog, chicken and dairy barns. Construction and concrete crews available. Mel or Scott, MR Steel Construction, 306-978-0315, Hague, SK.

100'x200'x22' Steel Farm Building. Ready for set-up on your farm today. Foundation specs can be supplied. Includes 26 gauge ext. sheeting and trims, \$153,900 plus tax. Add doors and insulation as needed. Other sizes available. 1-888-398-7150 or email buildings@prairiesteel.com

STEEL CLADDING SALE: New Grade A 29 gauge white-white metal cladding 3/4" high rib cut to your length for only .75¢/sq.ft. All accessories, fasteners and flashings are available. Call Prairie Steel in Clavet, SK., 1-888-398-7150, or email buildings@prairiesteel.com

BINS
4003

CHIEF WESTLAND AND CARADON BIN extensions, sheets, stiffeners, etc. Now available. Call Bill, 780-986-5548, Leduc, AB. www.starlinesales.com

CUSTOM GRAIN BIN MOVING, all types up to 22' diameter. 10% spring discount. Accurate estimates. Sheldon's Hauling, 306-961-9699, Prince Albert, SK.

GRAIN BIN TRAILER: 2005 Trailtech. Moves bins up to 34' high and 19.6' diameter, asking \$20,000. Call 306-634-6536 or 306-421-5530, Estevan, SK.

5000 BU. SUPERIOR Hopper Combo's, double 4x6 skids \$11,800. Middle Lake Steel. 306-367-4306, Middle Lake, SK.

U-WELD HOPPER CONES, sizes from 12 to 24. www.middlelakesteel.com Phone 306-367-4306, Middle Lake, SK.

BOOK NOW, TAKE DELIVERY, DON'T PAY UNTIL NOVEMBER, 2017. Top quality MERIDIAN bins. All prices include: skid, ladders to ground, manhole, set-up and delivery within set radius. Meridian Hopper combos: 3500 bushel, \$10,450. SPECIAL: 5000 bu., \$13,990. We manufacture superior quality hoppers and steel floors for all makes and sizes. Know what you are investing in. Call and find out why our product quality and price well exceeds the competition. We also stock replacement lids for all makes and models of bins. Leasing available. Hoffart Services Inc., 306-957-2033, Odessa, SK.

FOR ALL YOUR grain storage, hopper cone and steel floor requirements contact: Kevin's Custom Ag in Nipawin, SK. Toll free: 1-888-304-2837.

STORAGE/CONTAINERS
4005

20' AND 40' SEA CONTAINERS, for sale in Calgary, AB. Phone 403-226-1722, 1-866-517-8335. www.magnetsteel.com

BOND SEA CONTAINERS. New, used and modified sea containers. All sizes avail. Buy, rent or lease. Call Bond today 306-373-2236, joe@bondind.com or visit www.bondind.com

20' TO 53' CONTAINERS. New, used and modified. Available Winnipeg, MB; Regina and Saskatoon, SK. www.g-airservices.ca 306-933-0436.

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SHIPPING CONTAINERS FOR SALE. 20'-53', delivery/ rental/ storage available. For inventory and prices call: 306-262-2899, Saskatoon, SK. www.thecontainerguy.ca

STORAGE/CONTAINERS
4005



BEAVER CONTAINER SYSTEMS, new and used sea containers, all sizes. 306-220-1278, Saskatoon and Regina, SK.



HORNOI LEASING NEW and used 20' and 40' sea cans for sale or rent. Call 306-757-2828, Regina, SK.

CONTAINERS FOR SALE OR RENT: All sizes. Now in stock: 50 used, 53' steel and insulated SS. 306-861-1102, Radville, SK.

FARM MACHINERY

AERATION
4103

KEHO/ GRAIN GUARD Aeration Sales and Service. R.J. Electric, Avonlea, SK. Call 306-868-2199 or cell 306-868-7738.

KEHO/ GRAIN GUARD/ OPI STORMAX. For sales and service east central SK. and MB., call Gerald Shymko, Calder, SK. 306-742-4445 or toll free 1-888-674-5346.

CONVEYORS
4106

NEW CONVEY-ALL DRIVE OVER belt conveyor w/electric drive 20 HP motor. Retail \$15,000. Special year end price, \$12,900. 306-222-6173, Saskatoon, SK.

NEW BATCO 2075 w/electric drive kit. Retail \$36,500. Blow-out Special, \$28,500. 306-648-3622, Gravelbourg, SK.

BUILD YOUR OWN conveyors, 6", 7", 8" and 10" end units available; Transfer conveyors and bag conveyors or will custom build. Call for prices. Master Industries Inc. www.masterindustries.ca Phone 1-866-567-3101, Loreburn, SK.

FERTILIZER EQUIPMENT
4112



2012 TENDER TRAILER: 30 MT Convey-All trailer, tri-axle, 5 hoppers, self contained hyd. drive powered by Subaru gas motor 36 HP exc. cond., field ready, \$85,000. Bill 780-210-0800, Andrew, AB.



1995 LORAL FLOATER, AutoSteer, new tarp, AC, \$58,000. Call 306-421-3865, Estevan, SK.

FERTILIZER STORAGE TANKS. 11,000 US gal., \$6500 pick up at factory or \$7000 free freight to farm. 1-800-383-2228 www.hold-onindustries.com 306-253-4343

FERTILIZER EQUIPMENT
4112



2011 4520 1-bin, 70' booms, \$145,000; 2-2010 Case 4520's, 70' booms: 3-bin, 3100 hrs., \$168,000; SPECIAL- 2010 Case 4520, 1-bin, 5100 hrs., \$93,500; 2-2007 Case 4520's, 3-bin, 70' booms, 3300 hrs., AutoSteer, \$134,000 and \$98,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' FlexAir, 4000 hrs., \$78,000; 2004 Case 4010, 80' SPRAYER, 7000 hrs., \$58,000; 2- 2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$93,000; 2006 2-bin AgChem, 70' booms, \$58,000; 2002 KBH Semi tender, self-contained, \$32,000; 2009 and 2012 Merritt semi belt tender, self contained, \$32,000 and \$42,000; 2- 24 ton Wilmar tender beds, \$17,500 ea; 2012 Wilmar Rangler 4560, 780 hrs., \$28,500; 2009 Rangler 2400 hrs, \$23,500; 1974 10,000 gal. NH3 transport, \$38,500; 18,000 gal. NH3 holding tank, \$34,500. USD prices. 406-466-5356, Choteau, MT. www.fertilizerequipment.net



2009 TERRAGATOR 8204, Cat, TerraShift, Airmax Precision 2, twin bin, SmarTrax, 4530 hrs., \$73,500; 2008 Ag-Chem 8244, airflow bed, 70' booms, \$69,500; 2006 8204 twin bin, 5600 hrs., \$56,000. USD prices. 406-466-5356, Choteau, MT. View www.fertilizerequipment.net

GRAIN AUGERS
4115

REMOTE CONTROL SWING AUGER movers, trailer chute openers, endgate and hoist systems, wireless full bin alarms, swing belt movers, wireless TractorCams, motorized utility carts. All shipped directly to you. Safety, convenience, reliability. Kramble Industries at 306-933-2655, Saskatoon, SK. or www.kramble.net

MERIDIAN AUGERS IN STOCK: swings, truck loading, Meridian SP movers. Call Hoffart Services Inc., Odessa, SK., 306-957-2033.

GRAIN DRYERS
4124



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GRAIN AUGERS
4115

AUGERS: NEW and USED: Wheatheart, Westfield, Westeel augers; Auger SP kits; Batco conveyors; Wheatheart post pounders. Good prices, leasing available. Call 1-866-746-2666.

NEW MERIDIAN AUGERS: TL12-39 w/37HPEFI Vanguard eng., c/w mover, HD clutch, reversing gearbox and lights. Retail \$24,200, cash price \$19,500. 306-648-3622, Gravelbourg, SK.

MERIDIAN GRAIN AUGERS available with self-propelled mover kits and bin sweeps. Call Kevin's Custom Ag in Nipawin, SK. Toll free 1-888-304-2837.

GRAIN CLEANERS
4121

CUSTOM COLOR SORTING chickpeas to mustard, Cert. organic and conventional. 306-741-3177, Swift Current, SK.

USED LMC GRAVITY SEPARATORS, 400 BPH and 300 BPH units available. Call LMC Canada 1-800-667-6924.

GRAIN DRYERS
4124

MORIDGE 400 BUSHEL batch grain dryer, with canola screens and agitator, exc cond shedded, \$6500. 306-795-7618, Ituna, SK.



WESTERN GRAIN DRYER, mfg. of grain dryers w/auto. drying/moisture control. Updates to Vertec roof, tiers, moisture control. Economic designed dryers avail. 1-888-288-6857. westerngraindryer.com

GRAIN VACUUMS
4133

CONVEYAIR GRAIN VACS, parts, accessories. Call Bill 780-986-5548, Leduc, AB. www.starlinesales.com

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BALING EQUIPMENT
4139

WANTED: JD 7810 c/w FEL & 3-PTH; SP or PTO bale wagon; JD or IHC end wheel drills. Small square baler. 403-394-4401.

GRAIN DRYERS
4124



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BALING EQUIPMENT
4139



Excellence in small bale packaging systems

Our STRENGTH is in our KNOTS. The Bale Baron uses high strength plastic twine and a double knot system to tightly bundle its packs. The most efficient binding option available, twine is strong, cost effective and easy to cut with a pocket knife. Tying this twine is the Raspe low maintenance knotter system. Increasing your productivity, our knotter system only requires one greasing per year. This means less time servicing and more time in the field.



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www.marcrestmfg.com

SWATHERS
4143

JD 2005 4895, 30' HoneyBee header, dual canvas drives, near new UII reel, 1 owner, \$45,000 OBO. 780-221-3980.

COMBINES

CASE/IH
4160

2010 CASE/IH 7120, 2016 PU header, long auger, always shedded, field ready, 1167 hrs., exc. cond., \$165,000 OBO. Call Jim at 403-575-0069, Coronation, AB.

1997 CIH 2188, 3000 sep. hrs., auto HHC, chopper plus Redekop chopper, vg tires, rocktrap, long auger, 1015 or Swathmaster PU hdr \$25,000 306-861-4592 Fillmore, SK

2007 7010 Case/IH, dual wheels, w/2016 header, \$170,000. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2000 CASE/IH 2388 w/1015 header, \$65,000; 2004 2388 w/2015 PU header, \$115,000; 2006 2388 w/2015 PU header, \$130,000; 2009 7088 w/2016 PU header, \$180,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

GLENER
4173

WANTED: NICE R72 Glenner w/Cummins engine. Call 701-340-5061, Minot, ND.

JOHN DEERE
4178

2006 JD 9760 STS, bullet rotor, 615 PU, w/o, 1 owner, 2200 sep. hrs w/wo HoneyBee 30' straight cut header, field ready, \$95,000 OBO. 780-221-3980, Leduc, AB.

2006 JD 9760 STS, bullet rotor, 615 PU, w/o, 1 owner, 2200 sep. hrs w/wo HoneyBee 30' straight cut header, field ready, \$95,000 OBO. 780-221-3980, Leduc, AB.

2006 9660 WTS JD, 914 PU, duals, 2300 engine hrs., \$132,500. A.E. Chicoine Farm Equipment 306-449-2255, Storthoaks, SK.

2014 JD S680, 600 sep. hrs., 1000 eng.; 2013 S680, 300 sep. hrs., 470 eng.; 2012 JD S680, 400 sep. hrs., 650 eng. All 3 combines have 4WD, straddle duals and are loaded. 218-779-1710, Bottineau, ND.

2009 JD 9770, only 700 sep. hrs., 900 eng., 4WD, straddle duals, loaded, price negotiable. 218-779-1710, Bottineau, ND.

COMBINE ACCESSORIES

COMBINE HEADER
4199

RECONDITIONED rigid and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK www.straightcutheaders.com

MISC. ACCESSORIES
4205

RECONDITIONED COMBINE HEADERS. RIGID and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK or website: www.straightcutheaders.com

PARTS/ACCESSORIES
4211

PUMPS, PRESSURE WASHERS, Honda/Kohsin pumps, 1-1/2" to 4", Landa pressure washers, steam washers, parts washers. M&M Equip. Ltd. Parts & Service, Regina, SK. 306-543-8377, fax 306-543-2111.

SALVAGE
4214

TRIPLE B WRECKING, wrecking tractors, combines, cults., drills, swathers, mixmills, etc. We buy equipment. 306-246-4260, 306-441-0655, Richard, SK.

LOEFFELHOLZ TRACTOR AND COMBINE Salvage, Cudworth, SK., 306-256-7107. We sell new, used and remanufactured parts for most farm tractors and combines.

G.S. TRACTOR SALVAGE, JD tractors only. Call 306-497-3535, Blaine Lake, SK.

H/H VARIOUS
4151

BALING EQUIPMENT
4139

SALVAGE
4214

COMB-TRAC SALVAGE. We sell new and used parts for most makes of tractors, combines, balers, mixmills and swathers. Phone 306-997-2209, 1-877-318-2221, Borden, SK. www.comb-tracsalvage.com We buy machinery.

SMITH'S TRACTOR WRECKING. Huge inventory new and used tractor parts. 1-888-676-4847.

SPRAYING EQUIPMENT

SP SPRAYERS
4241



HEAVY DUTY WHEEL DOLLY. Change your sprayer tires in less than an hour! Over 100 units sold last 12 months. Perfect tool for safely and quickly moving or changing large wheels/tires, \$1,499. 403-892-3303, Carmangay, AB.

SPRAYING VARIOUS
4245

WANTED: 3 PTH sprayer. Call Glen 306-640-8034, 306-266-2016, Wood Mountain, SK. or email gm93@sasktel.net

FLOATER TIRES: Factory rims and tires; JD 4930/4940, R4045; 800/55R46 Goodyear tire and rim; 710/60R46 Goodyear LSW; Case 650/65R38 Michelins, \$13,500. Duals available for combines. 306-697-2856, Grenfell, SK.

TILLAGE/SEEDING

AIR DRILLS
4250

VW MFG. Carbide Drill Points and Openers for air drills. New super slim paired row opener VW32RPR. Full orders qualify for nearly Free, or FREE shipping. www.vwmfg.com Phone 403-528-3350.

MOON HEAVY HAUL pulling air drills/ air seeders, packer bars, Alberta and Sask. 30 years experience. Call Bob Davidson, Drumheller, AB. 403-823-0746.

CASE/IH 4012 ATX drill, edge-on shanks, Farmland boots, low disturbance sweeps, disc closers every shank, \$18,000 OBO. 403-820-0145, Drumheller, AB.

WANTED: BOURGAULT OPENERS for 320 Para-link drill, single shoot w/liquid end. Call 306-463-7527, Kindersley, SK.

2011 MORRIS CONTOUR 70', 650 bu. tank w/duals, TBH mechanical drive, dual shoot \$160,000. 306-948-7223, Biggar, SK.

2013 MORRIS CONTOUR II, 61', 8370 TBH tank, 450 bu., 3 tank, paired row carbide tips, main frame big tires, blockage monitor, seeded approx. 15,000 acres, 5000 acres on new carbide tips, asking \$190,000. 306-883-7305, Spiritwood, SK.

2009 BOURGAULT 3310, 75', w/6550 tank, 1 yr. on new tips and discs, very accurate drill and tank, \$205,000 OBO. Call 306-867-7165, Loreburn, SK.

2003 FLEXI-COIL 5000 39' 9" sp, 3.5" steel packers, 2011 P1060 430 bu. cart, DS. 306-722-3773, 306-722-7605, Osage, SK

2010 65' 3310 BOURGAULT Paralink, 12" spacing, mid row shank banding, double shoot, rear hitch, tandem axles, low acres, \$145,000. 2002 49' Morris Maxim air drill, 12" spacing, w/7240 Morris grain cart, \$52,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

H/H VARIOUS
4151

BALING EQUIPMENT
4139

AIR DRILLS
4250

JD 1820, 61' air drill, 10" spacing Atom Jet paired row boots, 4" pneumatic packers, NH3 Raven controller, sectional, JD 1910 430 cart, variable rate, 3 meters, \$49,000. 306-743-7622, Langenburg, SK.

AIR SEEDERS
4253

2012 CASE/IH 800 PRECISION, 60'; 2011 Case/IH 800 Precision, 50'. Both w/3430 TBH 430 bu. cart. Both like new, exc. cond, low acres. 218-779-1710, Bottineau, ND.

HARROWS/PACKERS
4254



WINTER DISCOUNTS on new and used rollers, all sizes. Leasing and delivery available. 403-580-6889, Bow Island, AB.

2013 RITE-WAY HEAVY HARROW, 90', approx. 20" harrows, adjustable pressure and angle, \$39,000. 306-948-7223, Biggar, SK.

TILLAGE EQUIPMENT
4262

COMPACTED SUBSOIL ISSUES? Avoid "band-aid" solutions. Since 1984. Call Rick 403-350-6088, anytime.

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.kellooughs.com Call: 1-888-500-2646.

CASE/IH 5600 HD chisel plow, 29' w/ Degelman 3 bar harrows, \$6500 OBO. 403-820-0145, Drumheller, AB.

1992 37' CASE/IH 5600 HD cultivator, w/Degelman mounted 4-row harrows, \$25,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

BOURGAULT 9200 50' floating hitch chisel plow, 600 lbs. trips w/Raven NH3 autorate kit. 306-563-7505, Canora, SK.

TRACTORS

WANTED: MISC. PARTS for Cockshutt/Oliver 2050-2150. Call 780-632-1048.

CASE/IH
4286

2016 CASE MAXIM 145, 150 HP FWA, loader, grapple, like new, \$190,000 OBO. 780-352-8858, Bittern Lake, AB.

LIZARD CREEK REPAIR and Tractor. We buy 90 and 94 Series Case, 2 WD, FWA tractors for parts and rebuilding. Also have rebuilt tractors and parts for sale. 306-784-7841, Herbert, SK.

2013 140A FARMALL Case/IH w/loader, 1800 hrs., \$82,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2009 CASE/IH 435, 2650 hrs., 71070R duals, powershift, 4 hyd., shedded, mint, \$200,000 OBO. 306-563-4462, Canora, SK.

JOHN DEERE
4295

1997 JD 7610 MFWD, 740 loader and grapple, 19 spd. powershift trans., good rubber, 2 hyd., 8449 hrs., \$60,000. 403-485-8085, Vulcan, AB.

JD 7710 MFWD, with 740 loader, LHR, premium condition, 20.8x38 tires. Call 403-823-1894, Drumheller, AB.

JD 8440, PTO, 5800 orig. hrs., quad trans, premium condition, call Call 403-823-1894, Drumheller, AB.

JD 4010, c/w FEL, new tires, batteries and injectors, very clean. Call 403-823-1894, Drumheller, AB.

H/H VARIOUS
4151

JOHN DEERE
4295

1976 JD 1830, 145 FEL, CAHR, 3 PTH, live PTO, good rubber, very low hours, \$20,000 OBO. Call 306-357-2136, Wiseton, SK.

2007 9320, 3044 hrs., 375 HP 24 spd. trans., 4 hyd., deluxe cab, AutoTrac ready, 620-70R42 duals, wheel weights, excellent shape, \$162,000 OBO. Call 306-247-2099, 306-843-7337, Scott, SK.

WANTED: JD 2520 tractor, powershift, 1969-1972. Also 3020, 4000, 4020, 4620. Diesel, powershift, '69-'72. Cancar Ag tree farmer 4 WD early 1960's. 306-960-3000.

NICE 2010 JD 9630, 4WD, original owner, 2500 hrs., fully loaded, big hyd. pump, 5 remotes, 800 duals, all updates done, best offer. Don 306-948-6059, Biggar, SK.

9420 JD, bought new in 2003, shedded summer/winter, 710x42 tires, used on 40' cult. on small farm, 2800 hrs., mint cond., \$165,000. 306-752-4336, 306-921-7683, Melfort, SK.

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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.

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LOADERS/DOZERS
4322

KIRSCHNER 10' BLADE, hyd angle, mounts on JD 740 loader, exc., \$4600; Degelman 4600 blade, 4-way, mts for JD 6430 tractor, exc., \$9500; Deg. 6900 2-way, mounts for JD 9320. 780-352-3012 Wetaskiwin AB.

2013 DEGELMAN 5700 blade, 12', mounts for JD 6150R; 2013 Degelman 5700 blade, 12', mounts for NH T7.185, \$11,500 ea. 780-679-7795, Camrose, AB.

LEONS 775Q, Q/A, 6-way hyd. front mount blade, \$13,500; Allied Farm King 960, 3 PTH snowblower, hyd. spout, \$3,500; JD 158 FEL, bucket, joystick, mounting kit to fit JD 4240, 4440 & 4230 tractors, \$5,500; Leons 707 push blade 8' front mount blade, \$1,200. Lamont Farm Centre Ltd., 780-895-7338, Lamont, AB.

ALLIED 590 LOADER, excellent shape, \$3500. Danny Spence, Speers, SK. 306-246-4632.

10' DEGELMAN DOZER and frame, manual angle, new cutting edge, fits most 2WD & FWA, \$5900. 306-948-7223, Biggar, SK.

2009 14' 6900 Degelman 4 WD blade, hyd. angle, mounting kit for STX 275, 280, 285, 330, 335, \$20,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

2011 CASE 1221E loader w/toothed bucket, M11 Cummins, 4 spd., 5500 hrs., \$165,000. 306-452-8081, Redvers, SK.

MISCELLANEOUS
4325

ACREAGE EQUIPMENT: 3-PT. CULTIVATORS, Discs, Plows, Blades, Etc. 780-892-3092, Wabamun, AB.

WANTED: STAINLESS STEEL LIQUID fertilizer storage tanks for transporting/storing, 1,600-50,000 gallons. Call 306-960-3000.

FLAX STRAW BUNCHER and land levelers. Building now! Book orders by year end for 2016 prices! 306-957-4279, Odessa, SK.

ODESSA ROCKPICKER SALES: New Degelman equipment, land rollers, Straw-master, rockpickers, protill, dozer blades. 306-957-4403, 306-536-5097, Odessa, SK.

GPS OUTBACK EZ-DRIVE TC with S2 Display, hyd. steering control. Will fit all ATX Case/IH 4 WD tractors and other makes, \$3300. Call A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

H/H VARIOUS
4151

MISCELLANEOUS
4325

RON SAUER MACHINERY LTD.
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ronsauer@shaw.ca

NH 1060 tbt air cart, Dual 20.8 x 38 tires, No monitor, used 1 season, as new	\$79,500
25' Hesston PT Swather	\$3,000
25' 725 CIH (MacDon) PT Swather	\$3,000
40' Morris 3100 Hoe Drills, mower and hitch	\$10,000
946 Versatile Ford Tractor, 5,000 hrs, 24.5 x 32 D	\$50,000
560 Hesston Round Baler, 1,000 PTO	\$5,500
660 NH Round Baler, 540 pto, nice shape	\$5,500
60' S82 Flexicoil Harrow Draw Bar, Nice shape	\$5,250
44' 820 F.C. Deep Till Air Seeder, harrows	CALL
2320 F.C. TBH Air Tank, complete with 320 - 3rd tank	CALL
40' 340 F.C. Chisel Plow & 75 Packer Bar, P30's	\$27,500
41' Flexicoil 300 B Chisel Plow, 3 bar harrows	\$12,500
100' 65XL Flexicoil Sprayer, complete with windguards, elec. end nozzles single tips, auto rate, excellent condition	\$12,500
29' 225 DOW Kello- Bilt Tandem Disc, 28" smooth front & rear blades, 10.5" spacing, oil, bath bearings, as new	\$60,000
47' 820 Flexicoil Chisel Plow, 4 bar harrow, low mileage	\$67,500
2009 GMC Topkick 20 ft. Grain Truck, automatic, silage gate, air ride suspension, approx. 7,000 kms.	\$105,000
New E-Kay 7", 8", 9" Bin Sweeps available	CALL
8-46' Meridian Grain Auger 27 HP Kholer, E-Kay mover, belt tightmer, power steering, lights, no spill hopper, as new	\$12,800
13" X 95' FarmKing Hydraulic Swing Auger, reverser, low profile hopper, spout, full bin alarm, 1 season	CALL
10'-50' Sakundiak Hydraulic Swing Auger	\$1,750
8" Wheat Heart Transfer Auger	\$1,250
New Outback MAX & STX Guidance & mapping	In Stock
New Outback E-Drive X, c/w free E turns	In Stock
New Outback S-Lite guidance	\$1,250
New Outback VSI Steering Wheel Kits	In Stock
Used Outback E-Drive Hyd. kits	\$500

Outback GPS Systems, E-Kay Custom Augers, Movers, Clutches, Bin Sweeps & Crop Dividers, Kohler, Robin Subaru & Generator Engines, Headsight Harvesting Solutions, Greentronics Sprayer Auto Boom Height, Kello-Bilt Discs

WANTED
4328

WANTED: GOOD ENGINE for Belarus 7010. Will consider buying complete tractor. Call 403-378-4979, Duchesne, AB.

WANTED: 40'-42' LAND ROLLER, wing up style in good condition. 306-843-7159, Wilkie, SK.

WANTED: USED, BURNT, old or ugly tractors. Newer models too! Smith's Tractor Wrecking, 1-888-676-4847.

WANTED: NH BALE WAGONS & retrievers, any condition. Farm Equipment Finding Service, P.O. Box 1363, Polson, MT 59860. 406-883-2118.

We know that farming is enough of a gamble so if you want to sell it fast place your ad in the Alberta Farmer Express classifieds. It's a Sure Thing. Call our toll-free number today. We have friendly staff ready to help. 1-800-665-1362.

FENCING
4400

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

GUARANTEED PRESSURE TREATED fence posts, lumber slabs and rails. Call Lehner Wood Preservers Ltd., ask for Ron 306-763-4232, Prince Albert, SK.



16' PEELED RAILS, 2-3" \$7.50 ea., 125 per bundle; 3-4" \$9.25 ea., 100 per bundle; 4-5" \$11 each, 75 per bundle. Vermette Wood Preservers, 1-800-667-0094, Spruce Home, SK info@vwpltd.com

FIREWOOD
4425

WALLENSTEIN WOOD PROCESSOR # 830. 1 man machine for cutting, splitting and piling, 50 hrs. 403-346-7178, Red Deer, AB

BLOCKED SEASONED JACK Pine firewood and wood chips for sale. Lehner Wood Preservers Ltd., 306-763-4232, Prince Albert, SK. Will deliver. Self-unloading trailer.

USED 3-1/2" OILFIELD tubing for sale, \$34 per joint, loaded. 780-205-7856, 306-248-7376, Lloydminster, SK.

DRILL STEM: 200

LAWN/GARDEN
4988



2007 MF GC 2300, FWA, loader, diesel, hydro., Cat I, 3PTH, 540 PTO, \$8900. Cam-Don Motors, 306-237-4212, Perdue, SK.

NURSERY/GARDENING SUPPLIES
4990



SPRUCE FOR SALE!! Beautiful locally grown trees. Plan ahead and renew your shelterbelt or landscape a new yard site, get the year round protection you need. We sell on farm near Didsbury, AB. or deliver anywhere in Western Canada. 6 - 12' spruce available. Now taking spring orders while supplies last. Phone 403-586-8733 or visit: www.didsburysprucefarms.com

BISON/BUFFALO

BISON/BUFFALO
5001

HARMONY NATURAL BISON buying finished up to \$6.25/lb HHW; Culls up to \$5.25/lb HHW; Feeders up to \$4.75/lb LW. Call/text 306-736-3454, SE Sask.

QUILL CREEK BISON is looking for finished, and all other types of bison. COD, paying market prices. "Producers working with Producers." Delivery points in SK and MB. Call 306-231-9110, Quill Lake, SK.

BISON WANTED - Canadian Prairie Bison is looking to contract grain finished bison, as well as calves and yearlings for growing markets. Contact Roger Provencher at 306-468-2316, roger@cdnbison.com

8 2015 CHOICE yearling bison heifers, \$3200/ea. 780-689-8630, Athabasca, AB.

BISON HERD for sale, 60-70 pairs. Yearling and 2 year old heifers, approx. 150 head total. Call 780-753-0982, Provost, AB.

BUYING: CULL COWS, herd sire bulls, yearlings and calves. Phone Elk Valley Ranches, 780-846-2980, Kitscoty, AB.

BISON CALVES, bulls and heifers, \$2300 each. Call Frank 306-662-4163, Maple Creek, SK.

WANTED: ALL KINDS of bison from yearlings to old bulls. Also cow/calf pairs. Ph Kevin at 306-429-2029, Glenavon, SK.

CATTLE

AUCTIONS SALES
5005



LAZY S BULL POWER 2017, January 28th, at the ranch, Mayerthorpe, AB. 225 polled red and black Simmental, Angus and Beef-maker (Sim Angus) bulls. 780-785-3136. Video online www.lazysranch.ca

BLACK ANGUS
5010

4L CATTLE HOLDINGS Top Quality, Top Genetics bred Registered PB Black Angus cows, heifers and 2016 replacement heifer calves. Bred to start Jan. 1 to Young Dale Xcaliber 32X, Avelyn High Cal 472'14 (son of 32X). Contact Larry and Judy Strom, 403-574-2222, judithstrom@gmail.com

PUREBRED BLACK ANGUS long yearling bulls, replacement heifers, AI service. Meadow Ridge Enterprises, 306-373-9140 or 306-270-6628, Saskatoon, SK.

BLACK ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SELLING: BLACK ANGUS BULLS. Wayside Angus, Henry and Bernie Jungwirth, 306-256-3607, Cudworth, SK.

50 BLACK ANGUS heifers, bred to reg. Black Angus bulls. Can winter and calve out. Call 306-322-7905, Archerville, SK.

SOUTH VIEW RANCH has **Black and Red Angus** 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

RED ANGUS
5015

90- TWO YR. OLD and yearling Red Angus bulls. Guaranteed, semen tested, and delivered in the spring. Bob Jensen, 306-967-2770, Leader, SK.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

SOUTH VIEW RANCH has **Red and Black Angus** 2 year old bulls. Ceylon, SK. Call Shane 306-869-8074, Keith 306-454-2730.

CHAROLAIS
5055

60 BRED COWS Charolais/ Simmental cross for sale. Call 403-652-7253, High River, AB.

CHAROLAIS
5055

CHAROLAIS BULLS, YEARLING and 2 year olds. Contact LVV Ranch, 780-582-2254, Forestburg, AB.

COMING 2 YR. old polled PB Charolais bulls, come red factor. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

REGISTERED CHAROLAIS BULLS, 2 year olds and yearlings. Polled, horned, some red. Quiet hand fed, hairy bulls. 40+ head available. Will at Cougar Hill Ranch 306-728-2800, 306-730-8722, Melville, SK

GELBIEH
5075



DAVIDSON GELBIEH & LONESOME DOVE RANCH, 28th Annual Bull Sale, Saturday, March 4, 2017, 1:00 PM at their bull yards, Ponteix, SK. Complimentary lunch at 11:00 AM. Pre-sale viewing and hospitality, Friday, March 3rd. Selling 100+ PB yearling bulls, Red or Black. Performance and semen tested. Contact Vernon and Eileen 306-625-3755, Ross and Tara 306-625-3513, Ponteix, SK. View catalog and video on our websites: www.lonesomedoveranch.ca or www.davidsongelbieh.com

HEREFORD
5090

10 REGISTERED HORNED Hereford 2nd calving cows. Jensen Farms, Carstairs, AB. 403-337-3766.

HIGHLAND
5100

FRESH AND SPRINGING heifers for sale. Cows and quota needed. We buy all classes of slaughter cattle-beef and dairy. R&F Livestock Inc. Bryce Fisher, Warman, SK. Phone 306-239-2298, cell 306-221-2620.

LOWLINE
5118

BIG ISLAND LOWLINES Premier Breeder. Selling custom designed packages. Name your price and we will put a package together for you. Fullblood/percentage Lowline, embryos, semen. Black/Red carrier. Darrell 780-486-7553, Edmonton, AB.

WELSH BLACK
5235

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS
5240

BRED HEIFERS: 75 Red and Black Angus; 25 Hereford. Exc. ranch raised females. Bred to top quality bulls. Call Dean at 780-855-2580, New Norway, AB.

75 SECOND AND THIRD Black and Red Angus young bred cows. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

12 BRED GELBIEH heifers for sale, start calving March, 2017, \$2000 each. Call 306-824-4523, Rabbit Lake, SK

GOOD QUALITY BRED HEIFERS. Red Angus, Red Angus cross Hereford and Red Angus cross Simmental. Bred Red Angus, Ferguson Stock Farm Ltd., 306-895-4825, Paynton, SK.

44 TOPCUT ONE IRON Red Angus cross bred heifers, AI'd to low birthweight Red Angus bull, very impressive group of heifers. Call 306-937-2880 or 306-441-5010 Battleford, SK.

50 BLACK ANGUS cows, bred Black, preg checked, \$1350/ea. Call 306-831-8977, Fiske, SK.

125 BRED RED ANGUS cross heifers, bred to Red Angus bulls. Bulls out July 1st for 60 days. Call 306-355-2700, Mortlach, SK.



COZY CAPS! Ear protection for newborn calves! 306-577-4664, Carlyle, SK. Email cozycaps@outlook.com

100 BRED Heifers. Red Angus cross Simm., Black Angus bred Red or Black Angus, begin calving end of March. Full herd health. Rob Garner 306-946-7946, Simpson, SK.

BRED HEIFERS: Approx. 200 big, strong top of the line, one iron Simmental and Simmental Red Angus cross, bred Red or Black Angus. Exposed May 24th, 2016. Full vaccination program plus Ivomec. Contact 3J Simmental Farms, 306-325-4622 or 306-327-8005, Lintlaw, SK.



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BELGIAN
5325

CROSSBRED BELGIAN mares, bred back to Belgian Stallion, \$2500/ea.; 1- set of brass harness, \$1800; 4- Red Belgian yearling mules, \$1200/ea. 780-363-2216, Chipman

HARNESS/VEHICLES
5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddie's, 1-800-390-6924 or keddie.com

SHEEP

SHEEP VARIOUS
5590

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SHEEP EVENTS/ SEMINARS
5597

SHEEP AND LAMB On-Farm Biosecurity Workshop and Canadian Sheep and Lamb Food Safe Farm Practices Workshop in conjunction with SSDB's AGM and Symposium will be held at the Ramada Saskatoon, 806 Idylwyld Dr. N, Saskatoon, SK., January 13-14, 2017. To register please call: 306-933-5200 or email: sheepdb@sasktel.net For details please visit: www.sksheep.com

SHEEP SERVICE/ SUPPLIES
5598

SASK. SHEEP DEV. BOARD sole distributor of sheep ID tags in Sask., offers programs, marketing services and sheep/goat supplies. 306-933-5200, Saskatoon, SK. www.sksheep.com

POULTRY

POULTRY EQUIPMENT
5741

APPROX. 125 FOODCRAFT poultry crates, with modules, good shape. 780-918-6816, Edmonton, AB.

SPECIALTY

ELK
5260

WANTED: ELK BULLS, various ages. 306-845-7518, 306-845-244, Turtleford SK

LIVESTOCK EQUIPMENT
5790

USED JIFFY SLIDE-IN round bale handler, in good condition. Phone 403-627-2601, Pincher Creek, AB.

FROSTFREE NOSEPUMPS: Fully sustainable livestock watering. No power required to heat or pump. Prevents contamination. Grants available. 1-866-643-6744. www.frostfreenosepumps.com

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1982 TW20 FORD tractor, FWA, w/FEL and grapple fork. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

SVEN ROLLER MILLS. Built for over 40 years. PTO/elec. drive, 40 to 1000 bu./hr. Example: 300 bu./hr. unit costs \$1/hr. to run. Rolls peas and all grains. We regroove and repair all makes of mills. Call Apollo Machine 306-242-9884, 1-877-255-0187. www.apollomachineandproducts.com

13 SILAGE TROUGHs, 30"l, steel framed w/planks, \$600 ea; Jiffy 250 feed wagon, \$3500. Ph 306-837-7818, Loon Lake, SK.

2014 HIGHLINE BALE PRO CFR651, with chopper and grain tank, processed 1000 bales, asking \$27,000. Call 306-397-2653, 306-441-2663, Edam, SK.

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

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PTO ROLLER MILL, load/unload auger, on 2 wheel trailer, shedded, little use. Kyle 306-369-2882, 306-369-7513, Bruno, SK.

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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

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.

GREG'S WELDING: Freestanding 30' 5 bar panels, all 2-7/8" drill stem construction, \$470; 24"x5.5' panels, 2-7/8" pipe with 5-1" sucker rods, \$350; 24"x6' panels, 2-7/8" pipe with 6-1" rods, \$375; 30' 2 or 3 bar windbreak panels c/w lumber. Gates and double hinges avail. on all panels. Belting troughs for grain or silage. Calf shelters. Del. avail. 306-768-8555, Carrot River, SK.

RENN PTO GRAIN ROLLER, 22" rollers, 12' unloading auger, mounted on trailer, \$3800. Call 306-562-7615, Buchanan, SK.

GRAINS
5942

WANTED: ORGANIC LENTILS, peas and chickpeas. Stonehenge Organics, Assiniboia, SK., 306-640-8600, 306-640-8437.

TRADE AND EXPORT CANADA BUYING all grades of organic grains. Fast payment and pick up. Call 306-433-4700.

WANTED

ORGANIC FEED GRAIN. Call DMI 306-515-3500, Regina, SK.

GRAINS
5942

Bioriginal

Bioriginal Food & Science Corp. is actively purchasing:

- Organic Flax Seed
- Organic Hemp Seed and;
- Borage Seed

(from the 2016 crop year)

We are also contracting for the upcoming growing season.

For more information please contact: Sandy Jolicoeur at (306) 975-9251 or email crops@bioriginal.com



PETS

THE ANIMAL PEDIGREE ACT
No person shall, without an express statement that the animal's registration, identification or status as a purebred is from a jurisdiction other than Canada and that the animal will not be registered or identified in Canada by the person, sell, as registered or identified, or as eligible to be registered or identified, or as a pure-bred, any animal without providing to the buyer thereof within six months after the sale the animal's duly transferred certificate of registration or certificate of identification. Any person who contravenes any provision of this Act or the regulations (a) is guilty of an offence punishable on summary conviction and is liable to a fine not exceeding twenty-five thousand dollars; or (b) is guilty of an indictable offence and is liable to a fine not exceeding fifty thousand dollars. For further information contact: Canadian Kennel Club Etobicoke, On.

WORKING DOGS
5923

REGISTERED BORDER COLLIE pups, Sire Scottish import, son of 2010 International Champion, top working stock. 780-941-3843, New Sarepta, AB.

PUREBRED BORDER COLLIE pups. From good working and personable parents. Contact 306-553-2213, Swift Current, SK.

MATURE IRISH WOLFHOUND/ Greyhound cross dogs for sale. Phone 306-290-8806, Dundurn, SK.

IRISH WOLFHOUND and **GREYHOUND** pups for sale, ready to go. Call 306-290-8806, Dundurn, SK.

BLUE HEELERS PUPS for sale, ready to go. Call 306-290-8806, Dundurn, SK.

REAL ESTATE

COTTAGE LOTS
6125

LOG HOMES AND CABINS, sidings, paneling, decking. Fir and Hemlock flooring, timbers, special orders. Phone Rouck Bros., Lumby, BC. 1-800-960-3388. www.rouckbros.com

HOUSES/LOTS
6126



YUMA, AZ. HOME for sale: 3 bdrm, 2 baths, w/solar system, pool, att. garage and RV garage, fully furnished. For more info. call 403-871-2441 or 928-503-5344.



DOUBLE RV LOT for sale, Yuma, AZ. With RV support building - washer/dryer, toilet, shower etc. 403-871-2441, 928-503-5344.

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MOBILE HOMES
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MEDALLION HOMES 1-800-249-3969 Immediate delivery: New 16' and 20' modular homes; Also used 14' and 16' homes. Now available: Lake homes. Medallion Homes, 306-764-2121, Prince Albert, SK.

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6128

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6133

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FARM & RANCHES

ALBERTA
6132

ONE QUARTER GRAINLAND for sale, East of Bindloss, AB. For more info. call 403-379-2521.

SASKATCHEWAN
6133

FARMLAND NW-35-30-12-W3 near Harris. Assess 56,100. 1 year lease in place til end of 2017 (\$7000) that will go to new owner. Asking \$239,000. Ph 306-220-0191

SEVERAL QUALITY LAND packages for sale. Please check out our website at www.hcventures.ca Regina, SK.

RM 260-261, LAND FOR RENT BY TENDER. RM 260: SE-15-27-23, NE-16-27-23, NW-16-27-23, SW-17-27-23. RM 261: NE-25-25-26, NW-25-25-26, SE-35-25-26. Highest or any offer may not necessarily be accepted. All offers due by January 15, 2017. Grant Specht, Box 38, Eatonia, SK. SOL 0Y0. Home 306-967-2768, cell 306-463-9768.

RM #369, 160 acres: 130 farmland, 20 grassland, 10 yardsite. Incl. 3 bdrm house, 3 car garage, quonset and sheds. 306-872-4500, 306-874-7778, Spalding SK

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 30

ALFALFA
6425

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6455

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PEAS
6458

CERTIFIED CDC AMARILLO, CDC Limerick, CDC Greenwater, CDC Mosaic. Call Grant, Greenshields Seeds, 306-746-7336, 306-524-4339, Semans, SK

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SPECIALTY CROPS

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6464

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6467

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COMMON SEED

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6483

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6491

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FEED GRAIN
6505

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WHY NOT KEEP MARKETING SIMPLE? You are selling feed grains. We are buying feed grains. Also buying chickpeas, lentils and golden flax. Fast payment, with prompt pickup, true price discovery. Call Jim Beusekom, Allen Pirness, David Lea, Vera Buziak or Matt Beusekom at Market Place Commodities Ltd., Lethbridge, AB. Phone 1-866-512-1711. Email info@marketplacecommodities.com or

VAN RAAZ PASKAL Farms in Iron Springs area is looking for Feed Barley. Put more \$\$\$ in your pocket and sell direct to us with no brokerage fee. Call 403-732-5641.

WANTED: OFF-GRADE PULSES, oil seeds and cereals. All organic cereals and specialty crops. Prairie Wide Grain, Saskatoon, SK., 306-230-8101, 306-716-2297.

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WANTED: FEED GRAIN, barley, wheat, peas, green or damaged canola. Phone Gary 306-823-4493, Neilburg, SK.

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HAY/STRAW
6510

ROUND ALFALFA/ALFALFA GRASS solid core greenfeed 5x6 JD hay bales for sale. Call 306-237-4582, Perdue, SK.

ALFALFA CUBES, LIVESTOCK PELLETS, bedding and grass seed. Cubes: \$250, 500 kg tote; \$12.70, 20 kg bag; Bulk available. Bulk livestock pellets. Bedding shavings. Grass seed dealer. Delivery available. 780-201-2044, Bonnyville, AB. Email: info@tncleedsandbrushing.com

BARG FARMS, Brooks, Alberta. Second cut Alfalfa mix round bales and barley straw round bales. Call for delivered price, 403-793-7461.

SHEDDED DAIRY AND FEEDER HAY, 3x4x8 square bales; Greenfeed and straw. Tests available. 403-633-8835, Tilley, AB.

HAY/STRAW
6510

QUALITY HAY 1st, 2nd and 3rd cut dairy and beef hay, 3x4 square bales, shedded; Triticale greenfeed with delivery available. 403-633-3777, 403-363-3318, Tilley, AB.

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APPROX. 350 FIRST cut large round alfalfa mixed bales, average weight 1400 lbs., \$50/bale. 780-352-8858, Bittern Lake, AB.

ALFALFA BROME PUBESCENT 3x3x8 bales, 1st and 2nd cut. Feed analysis available Call 306-773-2503, 306-741-9784, Swift Current, SK

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400 BROME/ALFALFA 6x6 round hay bales, \$04¢/lb., no rain. Contact 306-634-7920, 306-421-1753, Estevan, SK.

ROUND BALE PICKING and hauling, small or large loads. Travel anywhere. Also hay for sale. 306-291-9658, Vanscoy, SK.

350 EXCELLENT 2nd cut, Alfalfa/Brome mix, 1500 lbs., 4.5¢/lbs. 306-834-7204, Kerrobert, SK.

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