



‘BIG HITCH’ BARELY DESCRIBES IT

Take 30 horses and eight wagons, and you get one very, very long wagon train » PG 22



‘IT’S ALMOST LIKE A RIVER’

That’s how Ian Murray describes the flood of gophers on his ranch near Acme this year » PG 2

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EXPRESS

Cattle producers and feeders in checkoff stalemate

ABP has proposed a new funding council, but that wasn’t enough to sway cattle feeders

BY ALEXIS KIENLEN
AF STAFF

The Alberta Beef Producers and the Alberta Cattle Feeders Association have come to an impasse on making the provincial checkoff non-refundable. And that’s put the controversial matter in the hands of the provincial government.

“We’re trying to come up with a plan,” said Martin Zuidhof, chair of the Alberta Cattle Feeders Association. “That’s where it’s at yet. I would imagine that their thought is just to go to the status quo, but the cattle feeders are looking for something more innovative and progressive.”

The impasse is frustrating and damaging to the beef industry, said Bob Lowe, chair of Alberta Beef Producers (ABP).

In the fiscal year that ended March 31, his organization refunded \$2.33 million worth of checkoffs — a hefty 35 per cent of the total provincial levy it collected. Producers who identified

SEE CHECKOFF ▶ page 7

Costly corn planter gives ultra-consistent canola stands

Craig Shaw loved the results, and lower seed cost, but the pricey equipment is a major barrier



Craig Shaw used this corn planter for three years to more precisely place canola seed – and loved the “very, very uniform” emergence it produced. PHOTOS: COURTESY OF CRAIG SHAW

BY MADELEINE BAERG
AF CONTRIBUTOR

It’s one of those farming Catch 22s. On the one hand, the high cost of canola seed makes it tempting to minimize one’s seeding rate — on the other hand, a strong and consistent canola stand is key to good returns.

In the American Corn Belt, producers have found a solution by repurposing their corn planters to plant canola seed. The precision planting makes for better emer-

gence; incredibly consistent stand establishment, better pest management, more even ripening, and improved crop harvestability, yield and quality. Here in Western Canada, where very few producers grow corn and even fewer own a corn planter, the jury remains out on whether the agronomic and input cost benefits could ever offset the high cost of the equipment.

Lacombe-area producer Craig Shaw planted and recorded on-farm results of various seeding rates and row spacing planted by both a corn planter and conventional plot seeder over three years.

Though weather woes and residue management issues got in the way of entirely clear results, Shaw says there’s no question that precision planting offers a big agronomic benefit.

“When you look at a canola field seeded with a planter, it’s hard not to be impressed,” he said. “You can see the difference — it’ll look very, very uniform and the crop stages are totally consistent. All through the season that consistency matters for everything from herbicide and fungicide application

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MARKET READY

MAKE YOUR CANOLA EASY TO SELL ▶ PAGE 18

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It's not your imagination – there are more gophers this year

Sadly, there aren't many control methods that can reduce the large gopher population

BY ALEXIS KIENLEN
AF STAFF

If you think you've got more gophers than usual, you're probably right. The gopher problem is particularly bad this year, particularly in central and east-central Alberta.

"I've never seen anything like it," said Ian Murray, a cattle rancher who lives near Acme. "It's absolutely astounding."

Last year, the gophers flourished near Murray's canola fields and in a couple of other areas, but this year, he's surrounded by the pesky varmints.

"We're been told that with proper grass management, if you leave the grass a little longer, it's not as bad because gophers like to see what they're doing," said Murray, who is also chair of the Agricultural Research and Extension Council of Alberta.

"I have noticed that. For the most part, the stronger pastures do seem to have less.

"(But) if you get into the alleyways or places where the grass is substantially thinner, it's almost like a river. The ground just kind of moves in front of you. They're all over the place."

Murray isn't alone in his gopher woes.

"We anticipated it being pretty bad when it started out as an early dry spring," said Phil Merrill, provincial rat and pest specialist with Alberta Agriculture and Forestry. "We knew that if weather conditions were conducive for gophers, we'd have a problem this year."

If the weather is harsh when gophers first emerge, they have a hard time surviving and finding food, but this February and March were warm and dry.

"This year, it was really nice," said Merrill. "All the ones that came out of hibernation did well and had big litters. Then it was nice and fairly dry, especially in the central part of the province in early spring. That triggered really good ground squirrel growth."

Gopher tunnelling and burrows not only wreak havoc on productive land (and present a tripping danger for humans and horses), but also gobble up a lot of pasture.

"They're taking a pretty good chunk of the grass," said Murray. "We still have a lot out



An influx of gophers is ripping up the land and making holes at Ian Murray's place near Acme. PHOTOS: IAN MURRAY

there, but we'd have an awful lot more if there wasn't this gopher population pressure. The holes are another thing, and then the influx of badgers that have moved in to feast on the gophers so we're dealing with that, too."

There aren't a lot of control methods for gophers. Murray has resorted to shooting them, but is aware of the public perception of this action. Poison also works, but Murray has concerns about it going through the food chain in his operation.

"Poison does work well, but to have the maximum effect, you have to have the poison out before the young are born," said Merrill. "If you kill 70 per cent of the adults, you're really killing the population. But if you kill 70 per cent of the population now,

most of those that die will be juveniles that (already) have a high mortality rate."

It's actually too late to do much this year, but producers can plan for next year.

"If we have a damp cold spring, then we don't have a gopher problem," said Merrill. "We can't anticipate that. The potential is going to be high for ground squirrels next year, but if the weather conditions coincide, then we don't have a problem."

Knowing the animals' weakness also helps with control.

Gophers don't like long grass, and will often move to areas with short vegetation, where it is easier for them to see predators.

"If there is a field that is not doing very well on a hill, then they'll move into that area out of the crop where it is growing well," said Merrill.

If headlands don't have a lot of growth in early spring, the gophers will move into this area.

"They start in the headlands and if the headlands have very little vegetation, then they take off," said Merrill.

Heavy fall grazing of pastures makes for low early spring vegetation cover which can increase gopher survival from predation. However, leaving old vegetation growth in spring pastures is not always economically viable, and is not a factor in gopher viability during a wet cold spring.



"If you get into the alley ways or places where the grass is substantially thinner, it's almost like a river. The ground just kind of moves in front of you."

IAN MURRAY



"This year, it was really nice. All the ones that came out of hibernation did well and had big litters."

PHIL MERRILL

CP Rail chief Hunter Harrison says CP ready to move a bumper crop

In a letter to Transport Minister Marc Garneau, CPR says new investments will increase the company's ability to move a big crop

BY ALLAN DAWSON
STAFF

CP Rail says it's ready to move a bumper crop, but agriculture industry observers remain skeptical.

CP is aware a big crop is on the horizon and is prepared for it, CEO Hunter Harrison wrote in a recent letter to Transport Minister Marc Garneau.

"I think it is good news that CP is paying attention and is well aware of a large crop expected," said Wade Sobkowich, president of the Western Grain Elevator Association. "The next step is what information they provide in terms of capacity in each of the corridors that we can expect."

"Operationally, CP is eager and prepared to move grain this coming crop year."

HUNTER HARRISON

But if Prairie farmers harvest an above-average crop, as some experts predict, the whole supply chain must co-operate rather than point fingers, Harrison wrote in his letter.

"Not only is finger-pointing counter-productive, it unfairly tarnishes Canada's reputation as a world-class supplier and it distracts us all from the most important task: moving grain to the benefit of Canadian producers and companies," Harrison wrote.

Based on estimates by its member companies, which handle the lion's share of Prairie grain, the elevator association is predicting a harvest ranging from 63.3 million to 74.1 million tonnes. The low estimate would exceed the five-year average of 61 million tonnes and the high would challenge the 2013 record of 76 million tonnes.

CP has seen the estimates and has made record investments in improving its system, the letter states.

"We have constructed 22 new and extended sidings on our North Line between

Edmonton and Winnipeg, four new extended sidings on the Western corridor through B.C., and nine new sidings through the Upper Plains states to Chicago," Harrison wrote.

"These capacity-enhancing infrastructure investments allow us to move more commodities — including more grain — in an efficient and safe manner. This will improve our service and reliability and it will accelerate our growth in lock-step with our customers."

Canada's grain sector has increasingly relied on exports through Vancouver, which has finite capacity, Harrison said. To move more grain, Thunder Bay — which closes in early winter — must remain open longer, he added.

If the forecast for a crop possibly just four or five million tonnes below the 2013 record is correct, the grain sector should do all it can to reduce carryover grain stocks, Harrison wrote.

"The grain supply chain in Canada, like all efficient supply chains, is not built to move total annual volumes of a commodity in a short, peak period of time and then sit idle for the rest of the year."

But grain companies wonder if CP has enough cars and locomotives, Sobkowich said. But if the railways were penalized for failing to meet shipper service requirements, shippers wouldn't feel the need to poke their noses in rail operations, he said.

Likewise the railways shouldn't be telling grain companies which export terminals to use or when they should be shipping, Sobkowich said.

"We will use our facilities to the extent that it makes economic sense and it gives us the best return for the grain industry," he said. "That's not for the railways to dictate. That is for us to decide."

Harrison wrote that CP has thousands of hopper cars and hundreds of locomotives parked.

"It would be unfortunate if a significant amount of supply chain capacity is lost due to customers wanting to wait for a specific price to sell their grain, as we experienced in the summer and early fall of 2013," he wrote, but noted it's up shippers.

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Sylvan Lake farmer joins Cigi board at a critical time

Kevin Bender's new role will involve sorting out funding and trade issues

BY ALEXIS KIENLEN
STAFF

Governance, trace residues, and falling gluten strength.

Those are among the issues Kevin Bender wants to tackle in his latest off-farm role.

The grain grower from the Sylvan Lake/Bentley area — already vice-chair of the Alberta Wheat Commission and its representative on Cereals Canada — joined the board of the Canadian International Grains Institute last month.

Better known as Cigi, the non-profit facility plays a key role in the marketing of Canadian grain by offering to technical services to millers, bakers, and other buyers as well as organizing and leading "Team Canada" missions abroad.

It also front and centre when grain buyers have a concern, such about as the presence of genetically modified organisms.

"It could be something like soybean dust that is present in the wheat shipment," said Bender. "If there's zero tolerance (in the other country), it might be minute, it might be parts per trillion. But that's still not zero and that's an issue."

Cigi is trying to work with other countries to establish a benchmark or acceptable levels on GMOs and pesticide residues in wheat shipments. It is also dealing with complaints about falling gluten strength in the past few years — a problem blamed on three varieties that

became popular with Prairie producers.

"The reclassification (of milling wheat classes) has helped address that, but at the same time, wheat acres in those three varieties have been declining," said Bender. "The problem was correcting itself, but the Canadian Grain Commission took steps to reclassify those varieties as well as several others that didn't fit."

Those varieties will be moved into a new class, so growers and seed growers will have time to adopt new varieties into the new Canada Western Red Spring Wheat class as other varieties move into the Canada Northern Harvest Red Spring Wheat class.

But beyond these issues is a larger one.

"The most relevant and current issues are governance and funding," said Bender. "We're looking at the new funding model."

The board will be determining what to do with the Western Canadian Deduction, the 15 cents the Canadian Wheat Board used to deduct from final payment for each bushel of grain it sold and gave to Cigi. (The agency also receives funding from Ottawa and industry partners.) When the wheat board monopoly ended in 2012, the Alberta Barley Commission took over the program. But that agreement is ending soon.

"It's up to the industry as to how we want to continue funding," said Bender. "Do we see value in Cigi and is there enough value to keep funding it or is there some other model? Those are some of the things that we are working through."

Many producers have told him that there is value in Cigi and want farmers to continue to help fund its work, he added.

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KEVIN BENDER
FITS IN A COUPLE OF LINES
ATTRIBUTION FITS BUSINESS

"It's up to the industry as to how we want to continue funding. Do we see value in Cigi and is there enough value to keep funding it or is there some other model?"

ATTENTION: MEN OVER FORTY

In Alberta, 1 in 7 men will be diagnosed with prostate cancer, but when diagnosed early, it is very treatable. All men age 40 and over are invited to visit the Man Van during the scheduled clinic times and receive a free baseline PSA (Prostate Specific Antigen) blood test.

UPCOMING TESTING CLINICS:

STANDOFF

Wednesday, July 20th
Blood Tribe Dept. of Health
11:30AM-2:30PM

MILLARVILLE

Saturday, July 23rd
Millarville Market
9:30AM-2:00PM

CASTOR

Monday, July 25th
Huber Dam Campground
Sponsor: Crop Production Services
5:00PM-8:00PM

MILK RIVER

Saturday, July 30th
Show and Shine - Milk River Football Fields
Sponsor: Inter Pipeline
1:00PM-5:00PM

CANMORE

Sunday, July 31st
Canmore Folkfest
Centennial Park, Canmore
9:00AM-12:00PM



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OPINION



Isn't it time for a time out?

A summer vacation doesn't have to be expensive or long to create great memories and recharge the batteries

BY GORD GILMOUR
MANITOBA CO-OPERATOR ASSOCIATE EDITOR

What are your vacation plans this year? I ask because I suspect the answer for many of you will be that you don't really have any plans, or more likely, you feel too busy to take a break.

It's understandable. After all, summer is the busiest season on any farm, and doubly so in this country of seemingly eternal winters. With just a few short weeks to plant, husband and harvest crops, or an even shorter window to cut and bale prime hay and the ongoing need to keep livestock on the best grass, you're busy.

But the fact is, the time of the year that's best for crops and animals is also the best time to explore the world and spend some time with the people that are most precious to you.

The short summer window that comes after crops are sprayed and before harvest looms is your best chance to do this, and I urge you to take the time.

It doesn't have to be big or expensive. Go camping, or to visit friends. If your kids are grown and have moved off the farm, go sponge off them for a few days in the city and play with the grandkids. Take it from a former farm kid who rarely gets family visits — they'll be delighted to see you.

I grew up on a grain farm in Saskatchewan in the 1970s and early 1980s, and as I look back, my memories of my family and the fun times we had are generally clustered around this time of the year. July, when we actually had time to do things together that weren't picking rocks, burning flax straw piles or any

of the other million or so odd jobs that always seemed to need doing.

This was the time of year my dad took us fishing. Or my mom took a trip to the city to visit family there, kids in tow. Or occasionally, we'd borrow our uncle's tent trailer and all pile into the old Dodge Monaco for a real vacation. It was on one of these trips I made my first visit to Manitoba, to Duck Mountain and Riding Mountain parks.

Looking back now, I realize there weren't truly that many of these occasions, it just seemed that way, and none of them were really all that remarkable. After all, families go camping every summer weekend all across Canada. But to a small child they were magical, and I strongly suspect at least part of that magic was that they were the few occasions when we were able to get our parents away from the farm — and all that work that was impossible to ignore in clear conscience.

It was when they truly relaxed themselves, and when we all had fun together as a family. It was a recipe for memories, the memories I will carry the rest of my life. Playing in the water at the lake. Eating saskatoon berries straight off the bush. A fire and toasted marshmallows. Mundane perhaps, but at the same time, magical to a child.

I'm afraid too few farmers recognize the need to take this sort of pause. Or perhaps more correctly, plenty know they should, but few do because they have so much to do and they'd feel guilty if they did.

In many ways, I think that sort of work ethic is part of the heart and soul of agriculture and it's very often a good thing. It's what gets things accomplished, how farms are built and developed, how crops are sown and harvested. But

it can come with a downside. Workaholism is never a good thing and it's important that the much talked about 'work-life balance' extends to farms too. Maybe it's even more important.

If you really think about it, you're running a biological factory, and you and your family are living right in the midst of it, on the shop floor as it were. There aren't many other businesses you can say that about. Most families have a sanctuary where work and business don't intrude, but farm families seldom do.

I recognize taking that time away from the farm isn't always the easiest thing to do, but in the long run it's important.

It will allow you to recharge and regroup and return refreshed. It will let you appreciate your loved ones without constantly thinking about that job that needs doing. And it will let you experience the present, rather than fret about the future or worry about the past.

There are also plenty of well-documented benefits to vacations that can be good for your business. Research has shown that people who take regular vacations are less stressed, more creative, more confident and emotionally stable, healthier and significantly more productive. Counterintuitively, if you take some time off, you might actually accomplish more.

But most importantly, and probably most frequently overlooked, is the fact that you deserve it.

I was raised by farmers and I've been privileged to continue to know many farmers well over the course of my career. There are few groups of people who work harder and longer and more tirelessly.

Don't you think you've earned a little break?

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Verification of non-GMO products ignores what they actually are

Instead of giving consumers clarity when making decisions, Non-GMO Project labelling contributes to confusion

BY KAREN DAYNARD
KD COMMUNICATIONS

I've been in the marketing end of agriculture for the past 25 years and have done a lot of work on branding, including developing logos. Logos have a great deal of power.

There's one which infuriates me becoming more prevalent — that of the Non-GMO Project. According to its website (<http://www.nongmoproject.org>), "The Non-GMO Project is a non-profit organization committed to preserving and building the non-GMO food supply, educating consumers, and providing verified non-GMO choices. We believe that everyone deserves an informed choice about whether or not to consume genetically modified organisms."

While that description is fine for the most part, my problem lies in the wording "informed choice." The products they label have nothing to do with providing information on genetically engineered (GE) products, but rather the opposite.

What is scary is this group has

verified over 35,000 products worth over \$16 billion in sales across North America. They do this by ignoring what a GE product actually is. A quick search of their approved products includes, insanely enough, everything from water, maple syrup, coffee, honey, and organic rose petal spread to pure vitamins, kitty litter, pink Himalayan rock salt, equine shampoo, toilet paper and my favourite, condoms (in the heat of the moment, do couples really care if their condoms are GE?)

Oddly enough, as taken directly from their website, "the Non-GMO Project's verification seal is not a 'GMO-free' claim, it is trustworthy, defensible, transparent, and North America's only independent verification for products made according to best practices for GMO avoidance." They even know that their claims aren't necessarily true.

While I haven't investigated the U.S. regulations, the labelling laws in Canada are quite clear.

The Canadian General Standards Board under its *Voluntary Labelling and Advertising of Foods that are and are not Products of Genetic Engineering* section states:

"All of this labelling is illegal in Canada – so why is it proliferating?"



"6.1.4 Claims that a single-ingredient food is not a product of genetic engineering shall not be made for a single-ingredient food of which no genetically engineered strains have been offered for sale, unless accompanied by an explanatory statement, for example, like all other oranges, these oranges are not a product of genetic engineering."

The same rule applies to multi-ingredient foods where no GE alternative exists. Therefore all of this labelling is illegal in Canada — so why is it proliferating?

That answer takes me on a tangent about the lack of science knowledge

in society. That's something for another column.

A better question is how we, as the farming community, address this, besides investigating possible legal action (some Canadian companies, including some farmers in Ontario have shamefully bought into this scam).

We need to be vocal and take every possible opportunity to talk about what we do on the farm, and the multitude of benefits (especially environmental) that GE crops provide. We also need to combat the messages about these falsely labelled products.

Look what happened with French's ketchup being pulled out of Loblaws. A loud protest was launched, mainly on social media — and it was successful. Can we do the same for these products?

It may feel like you, as one individual, aren't making any impact, but together we can. Let's work together to denounce these false labels.

Karen Daynard, is a former Nuffield scholar and owner and president of KD Communications, Guelph, Ont.-based public relations firm.

OPINION



‘Three times a day, you need a farmer’ – a phrase that says a lot

It’s not just the food we produce – farming is much deeper and more meaningful than that

BY BRENDA SCHOEPP
AF COLUMNIST

My grandfather used to say, “Once in your life you need a doctor, lawyer, policeman, or preacher but every day — three times a day — you need a farmer.”

To some this may be a catchy phrase but to others it has a deeper meaning.

We were working on a school project, Grandpa and I, about farming in the Great Depression. My father was born in the heart of that time and we talked about the economic hardships of the nation. The greatest value or most desired thing for families, both urban and rural, was steady access to food. A severe drought on the Prairies and the lack of currency to buy food complicated the situation.

It was during this discussion that he made this remark. I had forgotten it for decades as I busied myself with raising children, working and farming. It came back to me

when I questioned my societal value and wondered what my legacy would be. Could I bring hope and light into the world at such a late stage? What did that look like? Were my roots so firmly planted in the soil that I feared walking a different path?

As these questions haunted me, I remembered the times I treasured — and like most rural children, I loved to be with my grandparents. By then they lived in town and bestowed treats on us that mother could not afford like store-bought cookies and Velveeta Cheese. I often relaxed in the kitchen and visited with these lovely mentors in my life. It was in reliving these memories that the conversation and the quote came back to me.

What does it mean to be a farmer — the most honourable profession on Earth? Quite frankly, the importance of farming is so immense I struggle for words. But let me try.

There is an energy that runs

from the soil through our veins that connects us in a deep way to the Earth. We cherish it and understand the instructions it gives. Each morning, the sheer beauty of the places in which we live captures us in a spiritual way — filling the day with an expressed gratitude. The space we occupy is immense and despite the expanse, we know every inch of it and enjoy watching our children explore that space freely.

Often isolated, we depend on neighbours, friends, and family members to weave the web of assurance that all is well, all will get done, and none need to pause to ask. The campfires on our own lawns and sledding on our own hills brings balance to our lives.

Farmers are ready and adaptable, and employ some of the most advanced technology on Earth. ‘Just a dumb farmer’ — a phrase you used to hear is being replaced with ‘wow’ factor as we lead in both science and technology. The real breakthroughs in the world are those that have to

do with agriculture which is the basis for civilization. We cannot deny our importance.

Three times a day — an essential service because we are more than food. We are also the basis of energy, clothing, electronics, transportation, research, beauty, health and well-being, housing, communication and more. And what is so fascinating and important about farming is that we are regenerative. From the care we give our soils to the welfare of flock and animals to the science of our greenhouses and beauty of our flowers — we are the very threads in the fabric that weave through our nation.

This sense of pride is not lost on farmers around the world. Grandpa’s words are now in 36 languages; used for World Food Day and other global initiatives; and found on T-shirts and coffee mugs.

This letter that I recently received from Louisiana that brings the very depth and importance of farming right back to home.

Dear Miss Brenda,

This may be a different type of “contact” than you normally receive but wanted to share. I came across your farmer’s quote a couple months back and have used it as my email signature ever since. My wife and I reside near Crowley, Louisiana, which is a large farming area. We’ve both grown up on farms and still reside on the farm. My wife lost her father this past week, who himself was a rice & soybean farmer. During the eulogy, my wife opened with your quote and it brought so many smiles and comfort to all the farmers in the church, including my mother-in-law. Just wanted to share how you have touched a family in south Louisiana. Make it a great day!

Sincerely, Jude Boudreaux

Make it a great day — for you are a farmer.

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



BY ALAN GUEBERT
FARM AND FOOD FILE

Like a good neighbour

Farmers now view themselves as a world apart from the rest of society and the public is starting to notice

It’s hard to think of summer without thinking of the many neighbours we shared the southern Illinois heat, humidity, and mosquitoes with on the dairy farm of my youth.

Back then, in the mid-1960s, we’d often see neighbours across the table-flat Mississippi River Bottoms, as they cultivated corn or soybeans and we baled straw or raked hay.

One set of neighbours, the bachelor brothers, Elvin, and Tanny L., owned land on either side of our farm. Six days a week one of the men would ka-push, ka-push past our house on their Johnny Popper A. If Elvin was at its wheel, he’d wave to my brothers and me like a long-gone uncle, utterly delighted to meet his newly discovered nephews.

Since we milked 100 Holsteins, we’d see many neighbours during their evening trips to the dairy barn to buy our 50-cents-a-gallon milk. The price never changed and the neighbours rarely did. Most arrived just in time to visit while we milked the last couple of cows.

Those visits leaned more towards local news than local gossip. Felix V. could be

counted on to tell us if the morel mushrooms were up. Young John O. (there was an Old John O.), who was the deckhand on the nearby Mississippi River ferry, always knew if the river was rising, falling or, as he liked to say, “on a stand.” Ivan M., who worked at a local grain elevator, offered the week’s price for wheat, corn, and soybeans.

Sometimes a neighbour came to the dairy barn to arrange an equipment or manpower swap. For example, my father often borrowed Gary K.’s three-point, two-row John Deere planter to plant the many rows our six-row Oliver planter, the world’s worst, had skipped due to its faulty engineering and our faulty attention.

In return, Dad would combine Gary’s red clover or loan him our baler on a June day when it wasn’t the dusty centre of his sons’ sweaty universe.

No one on either side of those transactions ever talked money; we were neighbours and neighbours were neighbourly.

Money did change hands, however, when we bought food from each other. We always bought our butcher hogs from a neighbour, usually Elmer B. Also, every week we purchased four dozen eggs from Mrs. M. with the same dollar bill her son Ivan, the elevator man, had given us a couple of days earlier on his weekly, two-gallon milk run.

Today that respect and love – that neighbourliness – seems to end at the property line or courthouse steps.



Two months ago, on a perfect spring day, I visited most of those old neighbours, atop the nearby bluff, during a slow meander through St. Leo’s Catholic Church Cemetery. I saw, for the first time in decades, Elvin’s hearty wave, Mrs. M.’s lipsticked smile, and Gary’s deeply creased grin.

Far below, in the blue distance, lay the lovely fertile Bottoms where they had spent their entire lives, often together, making a living and enjoying life. None ever had much money by today’s never-enough standards, but they had something money can never buy, the rarely mentioned respect and the never-mentioned love of their neighbours.

Today that respect and love — that neighbourliness — seems to end at the property line or courthouse steps. For example, last month, voters in North Dakota rejected, by a resounding 3-1 margin, their legislature’s loosening of the state’s corporate farming law.

That overwhelming defeat, however, will not deter the North Dakota Farm Bureau from pursuing its Federal Court suit to have the century-old state law declared unconstitutional. After the vote, farm bureau president, Daryl Lies, said the suit must continue because, “Our court system is the only appropriate place to settle this question without the issue being derailed by emotion...”

Not true. His neighbours, from every city, village and farm in North Dakota, calmly and democratically “settled” the “question” by a perfectly clear 75 to 25 per cent margin.

In rejecting that outcome, though, the farm bureau again proved what a growing segment of the public now firmly believes: Farmers love to talk to consumers. They just don’t want to listen to ’em.

A good neighbour would.

The Farm and Food File is published weekly through the U.S. and Canada. www.farmandfoodfile.com.

PLANTER ▶ from page 1

timing to even flowering to consistent ripening.”

Shaw’s trial data is being added to the planter trial findings conducted by federal scientist Neil Harker in research plots at Agriculture and Agri-Food Canada’s research centre in Lacombe. Once complete, Shaw and Harker hope their efforts will help define canola’s optimized seeding rate and spacing when planted with a corn planter.

Even more importantly, the study hopes to determine whether the lower input cost and/or improved yield benefit over a conventional plot seeder are significant enough to justify the purchase price of a planter.

Less seed, better stands

Canola currently costs into the double digits per pound for quality hybrid seed. Typically, half (or more) of the seed never successfully germinates. So a farmer who seeds five pounds per acre and sees an average rate of seed mortality is essentially kissing \$25 or \$30 of seed away per acre. As such, improving seedling emergence can have an immediate positive impact on one’s bottom line.

“We found that seed mortality was much less in the planter situation, which meant we could reduce seeding rates but still maintain yield,” said Shaw. “We ran lower seeding rates — much lower — and still maintained yield because we were able to place the seeds at exactly the right depth and space.”

“The best results are going to come out of the Lacombe research centre’s trials that are still ongoing. But from my experience, it was definitely easier to get a uniform stand from a planter system than from a regular seeder.”

Trials conducted by Rocky Mountain Equipment in Balzac a couple of years ago suggest the same.

The company conducted field trials using four different seeding rates (from 150,000 seeds or about two pounds per acre, to 375,000 seeds or about five pounds per



Even emergence means pays dividends all season long – from spraying to harvest – but Craig Shaw (below) wasn’t able to justify the cost of a corn planter on his Lacombe-area farm. PHOTOS: COURTESY OF CRAIG SHAW

acre) in 13 different locations. In virtually all scenarios, the lowest seeding rate produced the best yield.

Single-crop use

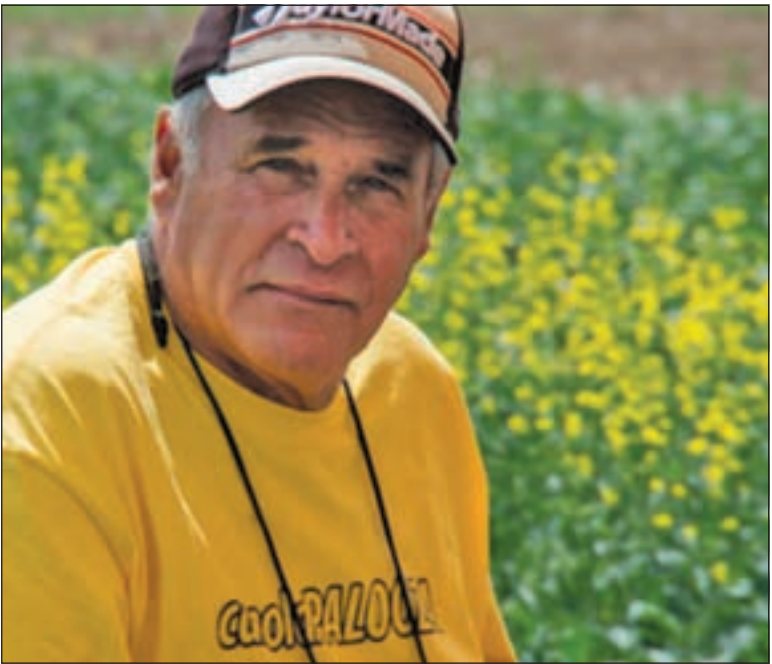
Still, is the saving enough to justify high cost of a corn planter, which due to crop rotation, may not even be used every year?

“The big question mark is whether a precision drill is worth the expenditure, especially in an environment where it’s exclusively used for canola seeding,” said Shaw. “As you move further south into country that grows corn, sugar beets and soy, you’d have more acres you could use that kind of planter on, so it would be easier to warrant that additional expense. But up here, it’s a significant cost when you can only use it for a single crop.”

His three-year on-farm trial now complete, Shaw has returned the borrowed planter to the Lacombe research station — and isn’t planning on buying one for his operation.

“The reality is that the planter isn’t the be-all and end-all answer to every issue,” he said. “Yup, it improved certain things and made achieving consistency easier. But what we really saw was that environment is critical.”

“The more things you can get right at planting — the No. 1 factor being good residue management — the better the odds that you can get away with reduced seeding rates. It’s a package concept — the better the seedbed you put it into, the better those seeds are going to do, regardless of how you get them in the ground.”





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NEW

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On-farm solar funding program reopens

Up to \$50,000 is available for producers who want to generate solar power on their operations

ALBERTA AGRICULTURE AND FORESTRY RELEASE

As well, retroactive projects from April 2013 are still eligible, if they meet all other system requirements,” said Lund.

“An energy assessment is completely optional, and at this time not required, to be able to participate.”

Producers that have a completed energy assessment, and are interested in applying to the program need to submit a copy of the assessment report with their solar photovoltaics application to be eligible for the higher rate.

“These on-farm energy assessments are such a valuable tool for operators to see where they are at in terms of current energy use, and to plan where they could go in terms of energy management and savings, that we strongly recommend them on their own merit, and as a starting place for efficiency planning,” said Lund. “The fact that an assessment creates an opportunity for a higher grant rate under the solar PV program is just an added bonus.”

It’s expected the program will be open for the year, “which means potential applicants can take their time to plan a solid project,” she said.

Growing Forward 2’s On-Farm Solar Photovoltaics program has reopened and is accepting applications.

There are a few revisions to the terms and conditions, said project engineer Kelly Lund.

“We really encourage potential applicants to read through them to be sure they understand the changes to the program,” said Lund, noting full program information and forms are at www.growingforward.alberta.ca (search for ‘on-farm solar’).

One requirement that has not changed is that, prior to applying to the program, a producer will have to have a micro generation pre-approval from their distribution wires owner that covers each system he or she are applying for. Potential applicant can still make applications for multiple site IDs on their properties, but the program limit of 100 kW or \$50,000 (whichever comes first) is still per applicant and not per site ID.

CHECKOFF ▶ from page 1

themselves as cattle feeders took 88 per cent of the refunds (just over \$2 million), while the remaining 12 per cent were taken by cow-calf producers.

“Overwhelmingly, at our fall meetings, producers are directing us to get on with the process of trying to get the checkoff back to non-refundable,” said Lowe. “We really wanted to go to the government with the cattle feeders by our side, but that wasn’t going to happen at that time.”

The checkoff has been refundable since 2009. With falling revenues, ABP has lobbied the government — without success — to make it non-refundable.

At a meeting this spring, ABP proposed to the Alberta Cattle Feeders Association that a council of ratepayers be formed, which would then decide how the money from the provincial \$2-per-head checkoff be distributed.

“This council would direct that money towards research, marketing, industry, and advocacy,” said Lowe, who operates Beartrap Feeders near Nanton.

Alberta Cattle Feeders didn’t like the plan, so ABP presented it to the minister of agriculture. The provincial ag ministry has indicated it isn’t opposed to a



“If the beef industry has a good vision, people would leave their money in and over time, the levy would increase.”

MARTIN ZUIDHOF

non-refundable levy, but would like ABP and the cattle feeders to jointly agree to the move.

“As far as ABP is concerned, the conversation is not ending with the cattle feeders,” said Lowe. “We’re all for whatever is best for the industry, and if we could come up with a plan that is satisfactory to both parties, that would be good.”



“As far as ABP is concerned, the conversation is not ending with the cattle feeders.”

BOB LOWE



Alberta Beef Producers is refunding more than a third of the checkoff money it collects – with 88 per cent of that going to cattle feeders. PHOTO: CANADA BEEF

“As far as we’re concerned, the conversation isn’t over and we have to get on with doing something.”

The Alberta Cattle Feeders, which is funded through voluntary membership, has no problem with a refundable checkoff.

“We don’t have a problem with keeping the checkoff voluntary — it keeps people responsible and accountable,” said Zuidhof, who runs a feedlot near Lacombe. “Generally, money tends to follow vision. If the beef industry has a good vision, people would leave their money in and over time,

the levy would increase. It hasn’t changed for a number of years. We have to show that the money is being well spent.”

He speculates some people are requesting checkoff refunds because they don’t like the way their money is being used. His association believes ABP needs to revamp its funding model, he said.

“A lot of the ABP money is spent internally,” said Zuidhof. “You can always throw out generic statements like ‘We need more money for research, promotion and marketing.’ How are we going to do that?”

But the withdrawal of funds isn’t just hurting ABP, it’s hurting the entire industry, said Lowe.

“It takes money to fight legal challenges. It takes money for research. Governments across the board are starting to demand industry funds.

“If we don’t have any skin in the game, they won’t fund research. Industry has to fund it to such an extent before the government will put money in. It’s not ABP losing money, it’s the industry losing money.”

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Healthy soil can boost your bottom line

Soil carbon is a bit like a credit card for your plants, says New Zealand soil expert

BY JENNIFER BLAIR
AF STAFF / CARSTAIRS

The Canadian government says six tonnes a hectare is an acceptable level of soil loss each year. Well, that's not acceptable to soil health expert Nicole Masters. "Soil is our greatest export," said Masters, director of Integrity Soils in New Zealand.

"We took out a lot of our soil resources when agriculture really intensified. You guys have done an amazing job by shifting to zero-till in terms of getting on top of some of those soil losses, but you're still losing soil."

In Canada, producers lose about one to two tonnes of topsoil for every tonne of grain produced, said Masters, who spoke at a recent workshop hosted by Foothills Forage and Grazing.

"If you're producing pretty good tonnage of grain, often you're losing a lot of topsoil in that process," she said.

"If we measure success only by yield, we're telling the wrong story."

Right now, Canadian farm debt is "skyrocketing," but net farm income "hasn't changed a lot."

"I'm not interested in playing in that kind of field. I want to look at how we can be profitable."

Nitrogen, for instance, is a major driver of yield, but it's relatively inefficient, with only five to 25 per cent of applied nitrogen being used by crops.

Plants also use mycorrhizae to send out their carbon and order their 'food,' said Masters.

"You can drive in your car and go get some food, but a plant can't do that," she said. "The currency in the soil is carbon. Plants pay the microbes with carbon."

"They send out that carbon and in comes your nitrogen, your water, your phosphate, and your zinc. If you're not getting adequate nutrition in your plants or you've got trace element problems, this cycle is not working."

A quick way to tell if mycorrhizae levels are healthy is by looking for "Rastafarian roots," said Masters.

"We'll see they look like actual dreadlocks on the plant. On that whole area around the root, the mycorrhizae will start to stick together."

But many modern production practices — including overgrazing, tillage, and chemical application — reduce mycorrhizal levels in the soil. And because mycorrhizae are

soil fungi, fungicide applications are perhaps most harmful.

"What do fungicides kill? Fungi," said Masters, adding that producers will need to apply extra inputs to make up for the loss. "Who wins in that particular situation? Not you guys. This is why the net profit has been flat."

"If you've got a fungal problem, you need to be looking at soil health — not putting fungal treatments on seed. We need to stop the cycle of violence."

By investing in soil health, not just inputs, producers can boost their bottom line and their productivity, while increasing the long-term resilience of their land, said Masters.

"If we don't foster our underground workforce, then you have to pay for the services they provide for you. It's going to come out of your pocket if you're not looking after microbiology."

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Producers can create resilience in their operations by building healthier soils, says soil health expert Nicole Masters. PHOTO: JENNIFER BLAIR

"If you've got a fungal problem, you need to be looking at soil health — not putting fungal treatments on seed. We need to stop the cycle of violence."

NICOLE MASTERS

"It's one of the most costly inputs for an operation, and so little of it is actually used. As a business plan, it doesn't make a lot of sense," said Masters. "We've got to look at how we improve the efficiencies of the nutrients that we're putting in."

Producers can start "building resilience" by focusing on soil health, she said.

"We start to see a soil that holds onto water and can buffer excess water, while having reductions in pests, weeds, and disease."

'Underground workforce'

And that starts with soil carbon.

"If we build soil carbon, that's a big part of holding onto extra water," said Masters, adding that one per cent soil carbon can hold about 15,000 gallons of water an acre.

"But most of the research that's been done on carbon has been focusing on the 'I'm here for a good time, not a long time' carbon. It's important, but it's not what's driving the deep carbon."

"That's being driven by mycorrhizae."

Mycorrhizae — fungi that form a symbiotic relationship with plant roots — can increase the surface area of roots up to 10,000 times, which increases the amount of water and nutrients a plant can gather from the soil.



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Thin canola stands are sometimes the more economical choice

Under the right conditions, a thin plant stand may actually outperform a thicker one

BY JENNIFER BLAIR
AF STAFF / LACOMBE

Prevention is worth a pound of cure when it comes to a thin plant stand in your canola crop — because there really is no cure once the plants have emerged.

“There’s a number of different things you can do to prevent a thin plant stand, but as far as a rescue, there’s nothing that’s a magical fix once you don’t have those plants,” said Murray Hartman, oilseed specialist with Alberta Agriculture and Forestry.

In a typical year, a plant stand that’s below the recommended seven to 14 plants per square foot will knock down your yield, but

there are other “repercussions for thin stands,” said Hartman, who spoke at canolaPALOOZA in late June.

“You might have a thin stand, and if it had been thicker, you might not have had to spray your herbicide a second time,” he said, adding that things like spray timing, swathing timing, and desiccation are also impacted by plant density.

And there’s no silver bullet for achieving that optimum plant density.

“It varies depending on the conditions. There’s not a magical number,” said Hartman.

“The first four or five plants per square foot are going to get you to about 90 or 95 per cent yield potential. But to get to that next



There’s no silver bullet for fixing a thin plant stand once the plants have emerged, said provincial oilseed specialist Murray Hartman. PHOTO: JENNIFER BLAIR

five per cent, sometimes you have to double the seeding rate. That’s not really cost effective with the price of seed.”

In some cases, producers may not take into account the thousand kernel weight when seeding, he added.

“If you want to prevent a thin stand, take a look at the thousand kernel weight. Don’t get caught by having a much bigger seed and not adjusting for it.”

Emergence is another factor — one where “you often have no way of predicting what’s going to happen.”

“If your emergence has been less than you’ve expected, you might think about whether you’re seeding too deep or putting too much fertilizer in with the seed row,” said Hartman.

“Those are things that are actually killing the seed. You paid \$12 a pound for the seed and then you’re going to kill it by seeding it too deep?”

Things like moisture at the time of seeding, disease, frost mortality, insects, herbicide residues, straw management and human error can all reduce emergence, he said.

“Now all of a sudden your effective stand is thinner than you expected, but you can go back and readjust how you’re managing some of those factors.”

Cut your losses

But once you’re facing poor growing conditions and poor emergence, often your best bet is to cut your losses, said Hartman.

“If you know there’s poor conditions early in the year and you know you’re going to get poor emergence, sometimes a thin stand is the more economic choice,” he said.

“If you’ve got 40 per cent emergence, you’re putting on a lot of seed and only 40 per cent of it’s coming up. And because it’s poor emergence, when you’re putting more seed in the ground to try to get up to a target density, you have to put a lot of seed in the ground.”

“At that point, you have to be satisfied with a bit of a thin stand under these poor conditions.”

And sometimes, you can get a “really high yield from a really poor plant stand” — which was the case for many growers in 2015, when growing conditions started out poor but were “really good from midsummer on.”

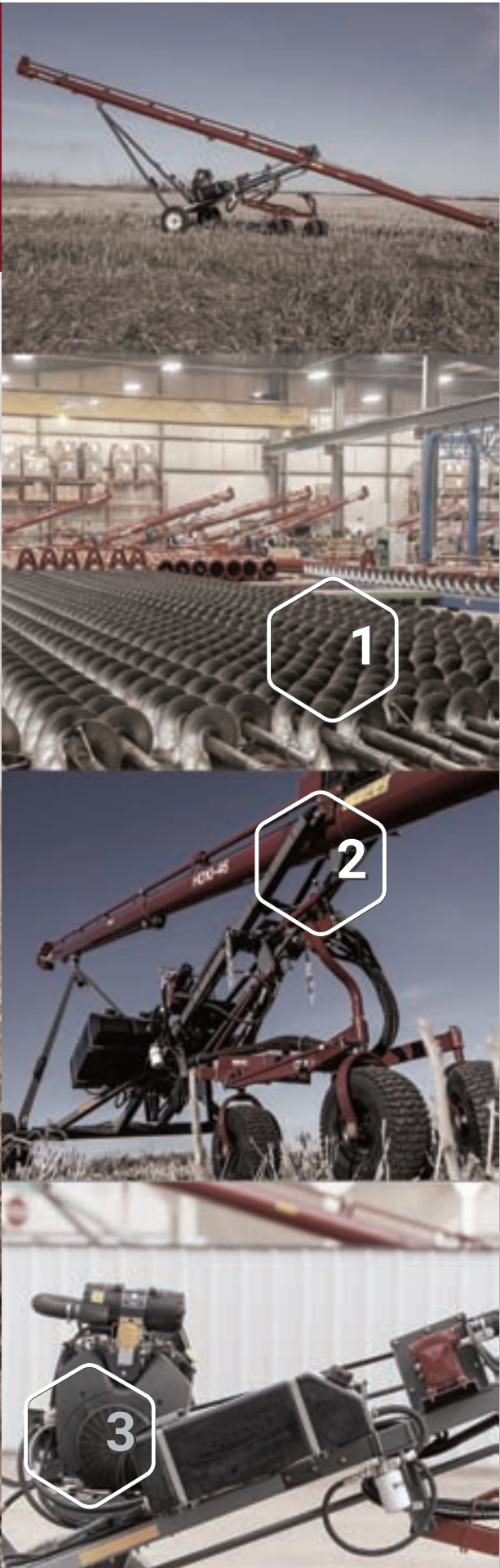
“A canola plant senses its neighbours, so if it’s a thin stand, it’s got a lot of dormant buds when it’s under stress,” he said. “But then the rain comes and everything’s good. It’s going to start rebranching and flowering — and it can do that because it’s thin.”

“As long as the season is long enough in the fall, all of a sudden you’ve got a better yield than if it would have been a thick stand.”

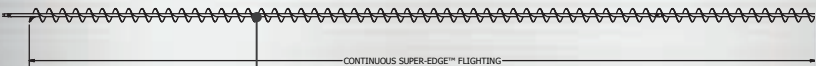
But that happens “the minority of the time,” he cautioned. “We can’t predict that at seeding time. But if it is poor conditions at seeding and you’re going to get poor emergence, you have to realize that a moderate seeding rate is going to give you a thin stand, and that’s kind of okay under those conditions.”

“It’s just not economical to try and push up the seed costs so high.”

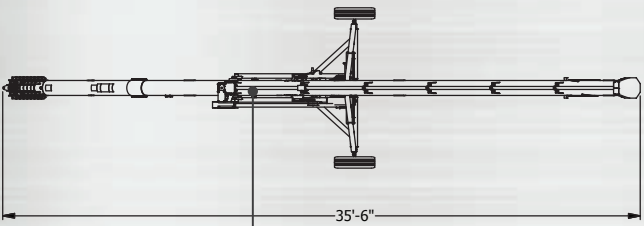
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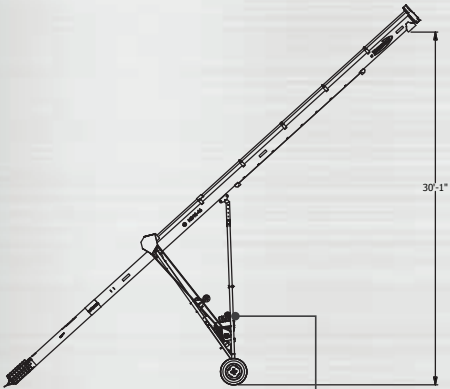
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ARGENTINE FARMERS HAVE ‘CORN FEVER’

“Gold is not the only thing that shines. There is also corn,” according to a seed company ad in Argentina, touting the hashtag #LaFiebreDelMaiz (Corn Fever). It illustrates the excitement in the world’s No. 4 maize exporter for the start of planting in September, which will be the first full season under the free-market policies of President Mauricio Macri, who abolished export taxes and quotas for corn and wheat. Agricultural distributors have already sold between 60 and 70 per cent of their corn seed (versus 10 per cent last year.) It’s expected corn area could jump by 30 per cent. — Reuters

AND U.S. FARMERS LOVE CORN, TOO

U.S. farmers seeded more corn and soybeans than they had initially planned to during the spring, taking advantage of a rallying futures market and good weather to plant as much acreage as possible. The robust plantings will likely add to an ample supply base of both commodities. The USDA’s quarterly stocks report showed that corn stocks as of June 1 were the biggest since 1988 while soybean stocks for that period were the third-biggest ever. The USDA puts soybean plantings at a record 83.688 million acres and corn plantings at 94.148 million acres. — Reuters

MARKETS



Fund selling in soybeans knocks \$25 off ICE canola

Improving U.S. crop conditions are bearish for soybeans

BY DAVE SIMS

ICE Futures Canada canola contracts suffered losses for the week ended July 8, tracking weakness in U.S. soy which was caused by large funds liquidating their long positions. Canola started the week in a relatively sleepy fashion, losing a few dollars as the U.S. markets were closed Monday in observance of Independence Day. On July 5, however, agricultural markets in the U.S. began falling sharply. Funds began to dump long positions in U.S. soybeans, which roiled the canola market. The front-month November canola contract declined by \$10 per tonne on July 5, \$3 the next day and a whopping \$17.50 on July 7. The market corrected higher July 8 but the damage was mostly done, with canola down roughly \$25 on the week. Factors that helped limit the losses included ideas that canola is relatively cheap compared to other oilseeds. Com-

mercials also stepped in to take advantage of the low prices before the weekend. Weather conditions across Western Canada, while a little soggy in certain places, looked generally favourable for the development of the crop. The International Grains Council also pegged canola/rapeseed stocks at a 13-year low, which was bullish for values. Corn futures dipped on the week, led by the September contract which shed US\$5. Rain across the U.S. Corn Belt pressured prices as the moisture partially alleviated drought-like conditions in certain spots. U.S. soybeans plummeted on the week, as large funds liquidated their positions en masse due to improving crop conditions. The U.S. Department of Agriculture pegged conditions as good to excellent across 70 per cent of the domestic crop, which was bearish for the market. By the end of the week, soybeans’ most-active contract November had lost US\$79.75. U.S. soy meal also plunged, on news that massive floods in China had killed livestock in large numbers.

Chicago wheat futures bucked the trend, posting gains on the week, as the September contract finished US\$4.75 higher. Production and quality concerns throughout Europe were bullish for U.S. exporters, while rain in the U.S. southern Plains disrupted harvest efforts, which was similarly supportive. Ideas that La Nina may not stress

soybeans, corn and wheat as harshly as first thought was another factor that weighed on markets. As well, general unease in the global market situation, largely due to Britain’s decision to exit the European Union, was also present. Dave Sims writes for Commodity News Service Canada, a Winnipeg company specializing in grain and commodity market reporting.

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

Look to sell when speculators mis-price the market

Commodity fund investors don’t always pay attention to market fundamentals

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Some speculation in commodities markets is a good thing, but large amounts of speculative money these days means price swings can be very dramatic, says a provincial crop market analyst. And that can create opportunities. “It has been estimated that over a trillion dollars is involved in the commodity futures and options trade,” said Neil Blue. “Speculative money flow can lead to higher or lower prices than what would happen without their influence, so that can either be good or not good, depending on what side of the market a hedge is on.” Speculators also tend to follow market trends and can, at least in the short term, seem to ignore supply and demand fundamentals, he said. “There are limits on how many contracts that one entity can hold in a futures market,” said Blue.



Supply and demand ultimately determines grain prices, but speculators often ignore those fundamentals and that can create selling opportunities, says provincial crop market analyst Neil Blue. PHOTO: REUTERS/VINCENT MUND “After the financial collapse in 2008, there was an investigation into speculative activity and it was determined then that speculators did not have unacceptable market control.” Still, they have an effect. “The U.S. dollar index began its recent decline around the first of March — not coincidentally, the soybean and crude oil markets began their significant price climb about this same time,” said Blue. “As speculative money continued to move to the buy side of these commodities, other related commodities were also purchased. Supporting the crop price rally was flooding of Argentina crops and also in some U.S. and Euro-

“Crop conditions here and in most other parts of the world are looking good overall. That rally was likely a seasonal pricing opportunity.” NEIL BLUE

pean crop areas — although there is no shortage of soybeans or corn in the world, at least not yet.” Each week in the U.S., the Commodity Futures Trading Commission gathers and releases information on what groups hold positions in in each commodity futures. The mid-June report indicated that managed money funds were net buyers of 66,102 contracts of corn during the week, making them net long over 130,000 contracts compared to a

net short corn position just a few weeks ago. Funds had increased their net long position in soybeans to almost 234,000 contracts, the largest since August 2012 when soybean prices were over \$17 a bushel, compared to the mid-June price around \$11.50 a bushel. “What does this mean to an Alberta producer?” asked Blue. “To mid-June, our canola and wheat prices had been supported by U.S. market activity. Crop conditions here and in most other parts of the world are looking good overall. That rally was likely a seasonal pricing opportunity for a percentage of those crops with prices implying a reasonable margin above production costs.” There will be other opportunities to forward price before harvest, he added. “For producers concerned with contracting with a physical buyer and then having a crop shortfall, or missing out on higher prices, they should consider using a put option or similar pricing strategy to retain marketing flexibility and leave price upside open.”

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BEEF CONFERENCE COMING UP FAST

The annual forum of the Canadian Beef Cattle Research, Market Development and Promotion Agency will be held Aug. 9 as part of the inaugural Canadian Beef Industry Conference in Calgary. The forum will include reports from agency officials and committee chairs as well as from the Beef Cattle Research Council and Canada Beef. The research council is also hosting Bov-Innovation, a fast-paced session aimed at delivering innovative and emerging production practices for feedlot and cow-calf operators on Aug. 10. More information on the Aug. 9-11 conference can be found at www.canadianbeefindustryconference.com. — Canada Beef agency

EUROPEAN TRADE DEAL IN PERIL

The European Commission has bowed to pressure to give Europe's parliaments the right to ratify its landmark free trade deal with Canada. The bid to reduce transatlantic barriers to business will now be sent to each of the EU's 28 national parliaments, and in some cases, such as Belgium, to regional parliaments as well. Requiring national parliamentary approval for the agreement raises the risk it will never be implemented. Proponents say the deal could boost bilateral trade by 20 per cent, but many EU voters have turned against free trade since the global financial crisis, and fear unfettered access to European markets will destroy jobs. — Reuters

LIVESTOCK

SHOW ME THE MONEY: The lowdown on preconditioning

Preconditioned calves are healthier, grow faster, and grade higher — but can cow-calf producers make money on the practice?

BY JENNIFER BLAIR
AF STAFF / CALGARY

Can you make money preconditioning feeder calves?

The answer depends on whom you talk to.

Attendees at a University of Calgary conference last month were told about an Indiana producer who pocketed an extra \$80 per calf by preconditioning his animals.

"The producer realized that the more days he preconditioned those calves, the more money he made," Dr. Mark Hilton, a veterinarian with Elanco Animal Health, said at the U of C Veterinary Medicine Beef Cattle Conference.

But most Alberta producers aren't fully preconditioning — a practice where a feeder calf is vaccinated, castrated, weaned, and fed from a feed bunk — because there's not a strong economic incentive, said Dr. Cody Creelman of Veterinary Agri-Health Services in Airdrie.

"Guys are very, very hesitant to keep their cattle around if they're doing a preconditioning program where those cows are backgrounded for a little bit post-weaning before they're shipped off — introduced to a bunk, introduced to stored feed and water troughs," said Creelman.

"They say, 'If one animal dies, that's basically my entire profit margin for doing this preconditioning.' They like to defer their risk in terms of mortality to the feedlot."

However, these two views aren't irreconcilable — rather it's all about the specifics, and the economics, of individual operations.

Indiana study

In the case of the Indiana producer, who was the subject of an 11-year research project, "the profit was directly tied to average daily gain," said Hilton.

"The big deal in dollars with preconditioning calves is putting weight on those calves efficiently," he said.

Newly weaned cattle are "pretty darn efficient at putting a pound of gain on," but as



An Indiana cattle producer made four times as much money from owning his preconditioned calves for two months than on owning his cows for a year, said Dr. Mark Hilton, with Elanco Animal Health. PHOTO: SUPPLIED

their weights go up, so too do the costs per pound of gain. As a result, producers are generally better off taking advantage of those 'cheap' gains, he said.

"Our cost of gain was very reasonable on these calves."

At the beginning of the project, the average daily gain was 1.2 pounds, but as the producer tweaked the feed ration and gained more experience with preconditioning, he "pushed three pounds a day of gain once we got those calves on a ration that was really good," said Hilton.

"Weight gain the first year was 58 pounds, and by the end (of the study), we were putting 200 pounds on these calves. That's what really paid for him."

And as he added more days of feeding for those calves, his profit "tended to go up."

"We started out feeding these calves for 48 days, and then he decided that feeding for 70 days made him a lot more money."

But even with the increased gain and preconditioning bonus, his profitability "really changed a lot over the years," said Hilton, adding that feed costs were the No. 1 reason for that.

"We don't have much control over that, but I can control gain on those calves by putting them on a ration where they do really, really well," said Hilton.

"We're in charge of the weight, and when we put weight on these calves, the owner made money."

By the end of the project, the producer "got \$174.30 more for these calves than he would have."

"It cost him \$93.60 to put that on, which gave him a net profit of \$80.70 per calf. Over the years, that was about \$90,000 extra," said Hilton.

By comparison, the producer made \$20 per cow per year in his cow herd.

"He made \$80 by owning a calf for 63 (extra) days. That's four times as much money for owning a calf for two months versus owning a cow for a year."

The situation in Alberta

The biggest barrier for most Alberta producers is that auction marts don't pay extra for preconditioned calves.

"Cow-calf producers are right in saying, 'I'm not sure if I'm getting an appropriate premium for all the work I'm putting in to do the preconditioning.' That's a very fair statement," said Creelman.

"What you would need to do is figure out for yourself what that cost actually is."

Producers are often guilty of not knowing their breakeven

costs, but it's critical in a preconditioning program.

"Most importantly as a cow-calf producer, you have to know your true input costs and figure out what works best for your system," said Creelman. "Preconditioning might be really good for one person and they can make money at it, but they may not be able to do it in another system."

"Before you implement a program, know what the cost is to do preconditioning."

In general, a 30-day preconditioning program costs about \$50 a head in production costs, including feed, veterinary care, yardage and interest, he said.

"Each producer is going to have to figure out a number for themselves, and that's the number you're going to need to work with carrying forward when you're talking to a feedlot."

But the "real work" is in marketing those preconditioned calves.

"It's hard to get that premium back on your calves in a typical open auction mart system," said Creelman, who advocates selling direct to feedlots using tools like e-sales and satellite auctions. That way, producers can track the performance of their calves through the system to command higher prices with that buyer in subsequent years.

"I do think that's the best sys-

tem to be able to see the benefit from preconditioning," said Creelman. "You can say, 'My breakeven is \$50. We followed these calves through last year and saw that they had pretty good carcass data and half the bovine respiratory disease and half the death loss that was average for your feedlot. If we calculate that all out, we get \$100, so let's meet in the middle at \$75.'"

"But that takes a lot of work and takes a lot of time to develop the relationships."

Producers need to remember that preconditioned does not always equal more money, he added.

"We're very market dependent in our industry. Sometimes, doing all of these nice things on the cow-calf side can negatively impact your overall revenue," said Creelman.

"You do need to find the balance and recognize that you're in a free-market system where things can change from year to year."

The bottom line

Hilton was at pains to emphasize the Indiana producer didn't see an immediate benefit.

"We didn't do all this at once. This took a while to happen, and he could have easily thrown in the towel the first year," he said.

"I get really tired of reading that someone tried something once and it didn't work, so they're not going to try it again. If it didn't work the first time, maybe you didn't do it right."

Creelman also said there's a steep learning curve in getting a handle on "all the tools and options out there."

"It does take more work. It takes more planning. From that regard, it is a little trickier," he said.

And with recent high prices, most producers have just been enjoying the ride, he added.

"When you're making money without doing it — like what the industry has been experiencing over the last five years — that extra hard work isn't seen as worth it," he said.

"But I always say most good things are hard."

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Regulatory changes will limit farmers' ability to import veterinary drugs

Proposed Health Canada changes will affect how antimicrobials are imported into Canada

BY SHANNON VANRAES
STAFF

For John Prescott, a move to end farmers' right to import certain veterinary drugs marks a significant turning point in the fight against antimicrobial resistance in Canada.

The Public Health Agency announced last year that Health Canada's Veterinary Drugs Directorate would introduce new regulations requiring veterinary oversight of antibiotics used in food animals, such as those administered in water and feed.

Health Canada is now asking for industry input on the proposed changes, including tougher rules around the quality of active ingredients, increased monitoring of drug sales and restrictions on the importation of some veterinary drugs.

"I think this is a historic process, it is dramatic," said Prescott, co-chair of the Ad Hoc Committee for Antimicrobial Stewardship in Canadian Agriculture and Veterinary Medicine.

"It will reduce the use of antibiotics to when the benefits are really clear and substantial."

In a summary of the proposed changes, the federal department states "the overuse and misuse of antimicrobials in animals is a contributing factor to the development and spread of AMR (antimicrobial resistance)."

Prescott agrees. He was one of the many experts gathered in Niagara Falls recently for a Canadian Veterinary Medical Association summit where antimicrobial resistance was a key concern. But while 80 per cent of all antimicrobials used are used in animal agriculture, the professor emeritus of veterinary bacteriology cautioned the situation should be kept in perspective.

"That sounds like a huge number, but you have to realize there are a lot more animals than humans in Canada," he said, adding that the Canadian Integrated Program for Antimicrobial Resistance Surveillance has done an excellent job of tracking resistance in Canada, often being the first to identify newly resistant bacterial strains.

Prescott would still like to see more done in terms of data collection and monitoring.

"What we'd really like to see is use data on a farm basis and on a veterinarian basis ... how well does farm X compare to farm Y, and if farm X or one particularly veterinarian seems way out of line ... it would be very valuable to then tap them on the shoulder and say look, you are out of line here, what's going on?" he said. "If we can track use, we can track resistance because the two are so linked together, if you use more antibiotics you will get more resistance. If you use less you will get less."

No one at the summit was surprised by the new regulations proposed by Health Canada, which have been in development for several years.

"There is 100 per cent support for the regulatory changes, there is definitely concern with how are these changes going to be implemented and kind of the details around that, but in general the CVMA has been consulting with Health Canada for the last number of years and we do support

these regulatory changes," said the association's president-elect, Troy Bourque.

Prescott noted the details of the proposed changes must still be finalized and that things feel "a bit chaotic" as industry and government come together to reduce antimicrobial resistance. But he stressed that even if benchmarking and antimicrobial use data still need to be worked on, changes to importation and oversight of ingredients marks a monumental change.

"The whole area is sort of in a ferment at the moment," he said.

Rob McNabb, general manager of the Canadian Cattlemen's Association said, "it is very clear that food animal producers and veterinarians must work together to ensure the prudent use of antimicrobials."

The association will respond to the Health Canada proposal in the coming weeks, but McNabb said, as they stand, the impact on production practices will be minimal.

"The most direct impact to our industry would be the changes or new restriction on own use import, and we've been recommending that they create a list of products, which they are now proposing to do," he said. "They aren't eliminating it all together, but they do need to have some controls in place."

He expects consultations with Health Canada will continue as regulatory changes move forward. The updated regulations are expected to come into effect in late 2017.

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PHOTO: THINKSTOCK



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The lowdown on the common lumps and bumps of horses

Often the best treatment is benign neglect until they get better on their own

BY CAROL SHWETZ DVM

Over their lifetime, horses present with an array of lumps and bumps on various occasions. At times the lump or bump will seemingly appear suddenly from out of nowhere, or it may develop slowly and remain for years without change. The behaviour and clinical picture of the lump/bump will determine whether it needs further investigation and attention, or whether space and time is the best course of action.

Whenever a new mass or swelling occurs acutely on a horse, within hours to days, a hematoma or a seroma is a likely candidate. These swellings are usually linked to trauma from a kick or some type of collision. The tissues are bruised during the injury and hemorrhage or serum leak under the skin to form the mass. Although unsightly and sensitive to touch, these masses are usually of little consequence to the horse as its body heals the damage, reorganizing the tissues and reabsorbing the fluid. This slow process yields the most cosmetic result and requires no further treatment other than patience. It may take up to two months for the swelling to fully resolve.

Bacterial infection

If the hematoma or seroma becomes invaded with bacteria an abscess is a possible complication. If such occurs, medical intervention will hasten its resolve and usually involves drainage and flushing of the abscess. Hematomas, seromas, and abscesses will generally occur on the horse's upper body rather than the limbs.

Swellings which occur on the limbs may be accompanied by varying degrees of lameness. Fluid swellings along tendon sheaths, "pouchings" of joints, and painful swellings along bony surfaces often necessitate further investigation to determine their cause and thus proper treatment to ensure a successful outcome. Some of these may require simple rest to resolve, whereas others may require extensive medical treatment and a daily regime.

Allergies

Horses can also get the typical flat-topped skin nodules known as hives whenever they have an allergic reaction. Although hives can occur during any season, they tend to have a higher incidence during the summer months and can present as a singular wheal or as multiples covering large areas of the body. They are sometimes accompanied by itching, scabs, and serous discharge.

Hives develop suddenly and often disappear just as suddenly as they arrive. They tend to be an immediate skin reaction to an allergen, which is a catch-all term referring to numerous inciting causes.

Biting insects are the most common culprit however reactions to drugs, chemical fly sprays and shampoos, vaccines, plants and feedstuffs are all possible allergen agents.

Just like certain people, certain horses have greater sensitivities as well. Discovering the cause can be challenging yet these animals will not find true relief until the causative agent is removed. In severe cases, the reaction can get out of control and may cause respiratory distress and generalized swelling. Careful monitoring

of these reactions is very important. Mild allergic reactions usually clear up on their own with time, however immediate veterinary intervention may be necessary if the horse appears distressed or has difficulty breathing.

Protein bumps

Another type of more persistent skin lump is the eosinophilic or nodular collagenolytic granuloma. These persistent lumps, also known as "protein bumps," are usually non painful firm "bumpy" swellings. They can be found singly or in multiples, varying in size from small to moderate, and are commonly found along the neck, withers, and back of the horse. Although their exact cause is unknown, they are thought to result from trauma or irritation to the underlying connective tissue. Their presentation is often bothersome to the horse owner as they are typically located where tack contacts the body, i.e. under the saddle. However this situation also provides a valuable clue as to their probable cause and therefore it is a useful exercise to consider that the lumps are in response to an irritation and/or small yet repetitive trauma, such as ill-fitting tack.

Is it cancer?

It is not uncommon whenever a lump or mass appears on a horse for an owner to be concerned about cancer. Whilst skin cancers can develop in horses they are generally considered to be uncommon. The three most common types of skin cancer in horses are sarcoids, melanomas and squamous cell carcinomas and their development is generally slow. Veterinary

consultation will be able to determine the best course of action for these, as in many situations they are treatable.

Sarcoids vary in appearance ranging from thickened flat hair-less lesions to a warty fibrous-like nodule of considerable size. They can be found anywhere on the body. Treatment is variable, depending on location, type, and size of the tumour with no one treatment considered to be curative. The squamous cell carcinoma is found in association with the mucous membranes near the skin in locations such as eyes, vulva, and penis. Recommendations for treatment are based on their individual specifics. Removal or cryotherapy are the most common treatments, and are best attempted early, when the mass is small.

Melanomas are most commonly found in grey horses and typically appear under the tail and along the perineum or vulva. Generally they are best treated with "benign neglect" meaning — simply left alone. Treatment, if chosen is variable and includes removal, chemotherapy, and trial with a new vaccine. Recommendations are based on individual cases.

The challenge with lumps and bumps on horses is in determining which ones are significant and need further investigation and which ones can be cared for with indifference. Veterinarians are a valuable resource for providing diagnosis and further direction whenever the nature and proper treatment of a lump or bump is in question.

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

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For safety’s sake, read this list and check it twice

Haying often means rushing to beat the weather, and that ups the danger, says farm safety expert

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Baling season is once again in full swing. Many producers equate baling with hot summer days and a rush to beat the weather. While getting hay baled and off the field is a top priority, doing the job safely should take precedence.

“To increase the safety of baling procedures while ensuring the job gets done, look for hazards related to baler operation, handling, transporting, and stacking,” said farm safety coordinator Kenda Lubeck.

Here’s a list of potential hazards.

- Handling:**
- Ensure no children play near hay balers, carriers, and stackers.
 - Properly train operators handling tractors, front-end loaders, or forklifts.
 - Tractors with cabs, FOPS (falling object protective structure) or four-poster ROPS (roll-over protective structure) are highly

- recommended. Two-poster tractor ROPS offer no operator protection from bales falling back off of forks or bale-loading frames.
- Ensure bale-loading attachments on tractors and forklifts are secure and well fitted.
 - Carry bales as low to the ground as possible.
 - Ensure sufficient counterbalance on a tractor or forklift vehicle.
 - Hydraulic control valve should be specific to the front-end loader attachment.

- Baler operation:**
- Ensure baler is properly connected to the tractor.
 - Make certain adequate safety guards are fitted.
 - No one should ever be allowed to ride on the baler.
 - Watch for and clear any build-up of loose, combustible material in the baler.
 - Ensure an updated fire extinguisher is fitted to the machine.
 - Stop engine, disengage PTO, and apply flywheel brake (on square balers) prior to making adjustments or repairs.

- Take extra care when reversing or turning the machine.
 - Work during the day when there is adequate lighting.
- Stacking:**
- Land stack on even ground.
 - Stacks should be clear of overhead powerlines.
 - Stacked round bales should be adequately chocked and the borders posted.
 - Watch for damaged bales at base of stack.
 - Stack bales tightly and at a stable height.
 - Do not stack bales higher than safe operating height of farm tractor or forklift.
 - Never allow children to play on stacked bales.
 - Do not handle more bales than is safe for the loader.
- Transporting:**
- Carry heavy loads of bales with a sturdy trailer.
 - Ensure proper restraining frames on the back and front of trailer.
 - Use fitted hooks so ropes can be used to secure load.
 - Watch for overhead powerlines on or near roads.



There is a long list of potential hazards when baling, transporting, and stacking hay. PHOTO: THINKSTOCK

- Avoid rough terrain that can cause bales to become unstable.
 - Travel at safe speeds at all times.
 - People should never ride on loaded hay trailers. This is highly dangerous.
- “After making this list, check each hazard that has been spot-

ted to assess how likely this hazard is to injure someone, and how severe that injury would be,” said Lubeck. “After this hazard assessment, take the list of hay baling and stacking hazards and number them in order of priority, so that those most likely to cause injury or harm can be addressed first.”

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2010 Case IH 2152, 45 ft, auger, transport, aft & adapter \$59,000
2009 HB SP30, 30ft, trans, fits 2588 and older \$29,000
2009 Case IH 2152 35ft, transport, AFX adaptor \$49,000
2009 NH 94C-36, 36ft PU reel, transport, cr adapter \$49,000
2008 MacDon D60, 40 ft, adapter, auger, trans \$38,000
2008 NH 94C-30, 30ft, AFX adapter, transport \$29,000
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EL NINO CAME WITH A BIG COST

The number of people affected by the combined impact of the El Nino and La Nina weather patterns could exceed 100 million by the end of the year, says the United Nations. The U.N. Food and Agriculture Organization estimates that more than 60 million people – two thirds of them in east and southern Africa – are facing food shortages because of droughts linked to El Nino. The impact of La Nina, when waters in the eastern Pacific Ocean cool after a phase of El Nino, is not as severe – but the weather pattern has also been linked to floods and droughts. – Reuters

PREPARE FOR EXTREME WEATHER, SAYS UN

Aid groups and governments in drought-hit countries in Central America need to invest more in agriculture if the region is to recover from recurrent drought, says the U.N. Around 3.5 million people are in need of food aid in these three countries where prolonged dry spells, linked to El Nino, since mid-2014 have decimated crops. But widespread deforestation, soil degradation and a lack of water has exacerbated the impact of El Nino and climate change. Help must be given to farmers to plant trees, improve rainwater harvesting, create more efficient irrigation systems and plant drought-resistant crops over shorter cycles, U.N. experts said. – Thomson Reuters Foundation

WEATHER



BY DANIEL BEZTE

Our heads are in the clouds

Having trouble sorting out cumulonimbus, stratocumulus, and nimbostratus? Here’s your cloud-spotting guide

I’m currently off exploring the mountains of south-eastern B.C. and south-western Alberta and due to my travels, will have to go with a more generic weather article this issue. I decided to take a look at something that ties into pretty much all of our weather — clouds.

If we were to define a cloud, we could say that it is a visible collection or aggregate of tiny water droplets or ice crystals floating or suspended in the air. Stealing a line from *Meteorology Today*, “Some clouds are found only at high elevations, while others nearly touch the ground. Clouds can be thick or thin, big or little — they exist in a seemingly endless variety.”

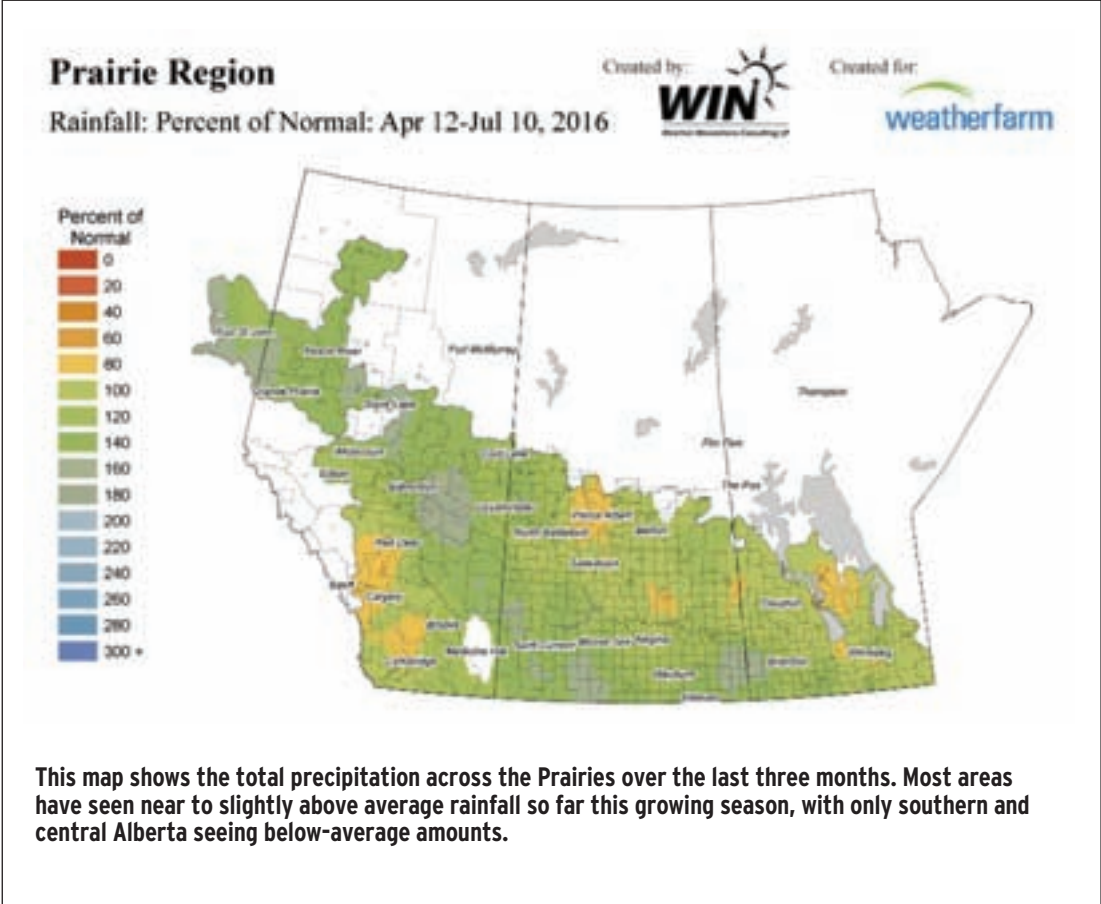
Identifying all of the different types of clouds can be a little tough, but with some practice, you can become reasonably proficient.

Our current method of naming and classifying clouds was developed in 1803 by Luke Howard, an English naturalist. His system employed the use of Latin words to describe the clouds as they appear from the ground. Clouds that appeared to look like sheets were called “stratus,” which is Latin for layer. Puffy clouds were called “cumulus,” which is Latin for heap. Wispy clouds were called “cirrus,” which is Latin for curl of hair, and finally, rain clouds were called “nimbus,” meaning violent rain.

So in essence, Howard’s system had four different cloud types. These could then be combined to cover other types of clouds. For example, stratus clouds that have rain falling from them would be called nimbostratus; cirrus clouds that form a layer would be called cirrostratus and so on.

In 1887, Abercromby and Hildebrandsson expanded Howard’s system by creating four different groups that clouds can be divided into. These would be high clouds, middle clouds, low clouds and a fourth group for clouds that span more than one region — vertically developed clouds.

This is the system that we use today. Clouds are classified by



This map shows the total precipitation across the Prairies over the last three months. Most areas have seen near to slightly above average rainfall so far this growing season, with only southern and central Alberta seeing below-average amounts.

the height at which they occur and then by their appearance. The table in the upper right corner of this page shows the four major cloud groups and their types.

This addition to the naming and classification of clouds does at first seem fairly simple and straightforward, but there are a couple of things that make it a little confusing.

First of all, we have cloud types of stratus (layer) and cirrus (wispy). To add in the height of the cloud we could use the term “cirrus” for all high clouds, alto for middle-level clouds, and stratus for low-level clouds. So they are kind of using the same word for two different things. When we take a closer look it does make some sense.

Wispy cirrus clouds only occur at high altitudes so anything high in the atmosphere will either be cirrus or have “cirro” attached to the front. Mid-level clouds are easy as we simply add the term “alto” to the cloud type. Naming low-level clouds works like the high-level clouds, except this time we use the term stratus to

“Some clouds are found only at high elevations, while others nearly touch the ground. Clouds can be thick or thin, big or little – they exist in a seemingly endless variety.”

describe the cloud. For example, low-level cumulus clouds would be called stratocumulus.

Cloud formation

Before we go on to examine each type of cloud, we should first take a look at the bigger picture — cloud formation.

For clouds to form we need to cool the air so that condensation will occur. Condensation is the process by which the tiny molecules of water in

the air come together to form larger droplets or ice crystals. Without going into topics such as vapour pressure, mixing ratios, and absolute and specific humidity, condensation occurs because, as the air cools, the ratio of evaporation to condensation tilts in favour of condensation.

Evaporation and condensation of water vapour are continuous and ongoing processes in the atmosphere. Usually, more evaporation is taking place than condensation, so, as the microscopic water droplets or ice crystals collide and grow, they quickly evaporate back to their original microscopic size. When we cool a parcel of air enough, the amount of evaporation that takes place decreases because evaporation takes energy that comes from heat.

As the microscopic water droplets or ice crystals collide and grow, they do not evaporate as quickly. As more and more collisions occur they eventually grow big enough to become visible — they have grown large enough to be called a cloud droplet.

FOUR MAJOR CLOUD GROUPS AND THEIR TYPES

HIGH-LEVEL CLOUDS

Cirrus
Cirrostratus
Cirrocumulus

MID-LEVEL CLOUDS

Altostratus
Alto cumulus

LOW-LEVEL CLOUDS

Stratus
Nimbostratus
Stratocumulus

CLOUDS WITH VERTICAL DEVELOPMENT

Cumulus
Cumulonimbus

Two processes

There are two main processes that allow for clouds, rain, and snow to form — the “collision-coalescence process” and the “Bergeron process.” The first is fairly self-explanatory. The microscopic water droplets collide and combine (coalesce). With each collision the droplets get larger, eventually becoming visible and possibly even becoming a raindrop.

The Bergeron process happens with ice crystals. They grow because they absorb water vapour more readily than water droplets. That is, in a cold cloud, water droplets can be supercooled below the freezing point and still remain liquid. If an ice crystal is near one of these supercooled water droplets the ice crystal will absorb the water from the water droplet by causing the water droplet to evaporate while the ice crystal uses this newly evaporated water to grow.

In the next issue, we’ll look into different cloud types in more detail.

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.

CHECKOFF REFUND DEADLINE LOOMING

The deadline for applying for a refund for wheat and barley checkoffs is at the end of the month. The five-year transitional Wheat and Barley Check-Off was established four years ago and is administered by Alberta Barley. The checkoff is 48 cents per tonne of wheat and 56 cents per tonne of barley (four cents per tonne of barley sold in Alberta). The two checkoffs help fund the Western Grains Research Foundation, Canadian Malting Barley Technical Centre, and Canadian International Grains Institute (Cigi). These organizations lead the way in developing new varieties, new markets and more opportunities for wheat and barley farmers. For more information on the checkoff and refunds, go to www.wheatbarleycheckoff.com or call 1-800-265-9111. — Alberta Barley



CROPS

Root rot rears its ugly head – and there's no treatment

Peas are the biggest concern and even when fields look OK, root rot can still be there

BY ALEXIS KIENLEN
AF STAFF

Pulse acres have increased in Alberta this year, but unfortunately root rot has increased as well.

"We're hearing and seeing evidence of pretty extreme root rot in pulses, especially peas," said Mike Harding, research scientist and plant pathologist with Alberta Agriculture and Forestry.

"It doesn't look like it's going to be a great year for anyone who has peas in a field that is prone to getting root rot."

Root rot was first detected two years ago.

"While it has been here for a significantly longer period than that, it has flown under the radar," said Harding. "It seems like it's a new pathogen for us but in reality, it has been here for a while. As a result, we haven't been breeding for resistance, or looked for products that are effective against it."

The impact on peas depends on how long peas have been in the rotation, compaction, drainage issues, and rainfall amounts. The organisms that cause the disease are soil-borne and can infect the plant at any stage.

"There are all kinds of things that line up and in some situations, it is severe; in some it is moderate; and there are some pea fields out there that look wonderful," said Harding.

When infected, a plant begins to yellow, as the roots lose the ability to move nutrients up from the soil. Plants can look wilted and sick, and in some cases, might die off.



A pea field affected by root rot often looks yellow and withered, but some infected fields don't look as bad as others. PHOTOS COURTESY MIKE HARDING

"For some reason, some varieties seem to stay greener above ground longer than some others," he said. "The damage is done to the root and the yield loss is still there, but the plants don't show symptoms as bad as some others. Some varieties look really, really bad when they get root rot and others look not quite so bad."

Producers should scout periodically for root rot.

"Even in the absence of above-ground symptoms, you can still look for root rot by digging up the plant and just having a look at the root," said Harding.

In a normal pea crop, there should be a cluster of pink, healthy, nodules on the roots to fix nitrogen. The roots should have lateral root growth and look like a big ball. But root rot pathogens cause small lateral and feeder roots to die out, so the ball becomes a stick, instead of a nice, robust root system.



Pea roots affected by aphanomyces root rot.

The root system can have a honey brown colour with aphanomyces root rot, and black in the case of fusarium root rot.

Drainage and rotation

Good drainage can make a huge difference as fields with poor drainage are susceptible to root rot, as are compacted ones. Crop rotation is also key.

"If a farmer has only been growing peas for 10 years and has a four-year rotation, we see fewer issues, because those pathogens haven't had time to accumulate in the soil," said Harding. "With farms that have been growing peas for 30 to 35 years, the pathogens may have accumulated above that threshold where we start to see severe problems."

There is no current treatment for the disease, save for seed treatment before planting.

Producers should avoid planting



Pea roots affected by fusarium root rot.

peas in fields that are waterlogged or have low spots with poor drainage.

"Try to avoid fields that have compaction issues; choose lighter loamier soils rather than hard clay that gets packed and compressed."

Producers in the irrigation areas should take care not to waterlog their soils.

"Use high-quality, certified seed with a seed treatment. If you have both fusarium or aphanomyces in your field, then you need two seed treatments," said Harding.

Alberta Pulse Growers recommends producers who see root rot should avoid seeding peas or lentils on that field again for five years. It has a root rot guide at www.pulse.ab.ca (search for 'root rot' and then click on 'Seedling Blight & Root Rot in Peas').

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Five steps to market-ready canola

International buyers are testing like never before — but meeting their standards is easy



Market-ready canola is just five simple steps away, says Brian Innes of the Canola Council of Canada. PHOTO: JENNIFER BLAIR

BY JENNIFER BLAIR
AF STAFF / LACOMBE

Growing a good canola crop isn't just about high yield or quality — it's also about getting that crop ready to market on a global scale.

"We export about 90 per cent of what we produce in Canada, so being able to meet the requirements of our export customers is really important for having open and stable markets to sell our canola to," said Brian Innes, vice-president of government relations for the Canola Council of Canada.

"These are things like pesticide residues, blackleg, incidents of deregistered varieties, as well as improper canola storage."

In order to make sure their canola stays market-ready, producers should follow these five simple tips, said Innes, who spoke at canolaPALOOZA in late June.

First, use pesticides at the correct rate, timing, and pre-harvest interval. Next, stay away from unregistered pesticides or chemicals that leave unacceptable levels of residues under internationally recognized maximum residue limits.

"There are some pest control products that processors and exporters have identified as a concern," said Innes.

"We need to help growers understand how to select a product that's approved for use by talking to their grain buyer, and then using it according to the label."

These include anything with the active ingredients quinclorac (Accord, Facet, Clever, or Masterline); fluazifop-p-butyl (Venture L or Fusion); and vinclozolin (Ronilan). Some exporters will also reject canola treated with metconazole, the active ingredient in Quash.

"Producers should talk to their grain buyers if they have questions or concerns about products that they're using."

Third, producers should follow best management practices for storing canola, said Innes.

"Use the right storage practices to keep canola in the condition that it needs to be in for export by not using things like malathion and by keeping animal proteins out of the bins," he said.



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"Having growers understand what they need to do to meet the requirements of our customers helps everybody get a higher value for their canola."

BRIAN INNES

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Producers should also grow blackleg-resistant varieties and use blackleg management practices, such as planting treated seed, scouting fields for symptoms, applying a fungicide, and maintaining a break between canola crops in the rotation.

"Producers need to be making sure they use the right blackleg practices to prevent high levels of infection."

And finally, producers should avoid growing deregistered varieties: Roundup Ready Polish (Hysyn 101RR), Bromoxynil Tolerant (295BX, Armor BX, Cartier BX, Zodiac BX, Renegade BX), and older Liberty Link varieties (Exceed, 2631 LL, Swallow, SW Legion LL, SW Flare LL, LBD 2393 LL, Innovator, Independence, HCN 14, Phoenix, 3850, 2153, 3640, 3880, 2163, 2273).

"Having growers understand what they need to do to meet the requirements of our customers helps everybody get a higher value for their canola and keeps our markets more stable," said Innes.

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AG DEALS TO GO!

Wheat streak mosaic virus returns to Alberta

Producers are being urged to be on the lookout and take steps to keep the virus from spreading

BY ALEXIS KIENLEN
AF STAFF

Wheat streak mosaic virus hasn't been seen in the province for more than a decade, but it's making a comeback this year. "Last year we had a dozen or so fields in southern Alberta that tested positive for or were assumed to be wheat streak mosaic, based on the symptoms," said Mike Harding, research scientist and plant pathologist with Alberta Agriculture in Brooks. "We had been on the lookout for it in case it overwintered, and then we had a very mild winter."

All positive fields have been south of the Trans-Canada Highway. A number of factors need to come together for wheat streak mosaic virus to develop. The virus is carried by an insect known as the wheat curl mite, which can migrate from field to field via the wind. "Wheat streak mosaic virus doesn't overwinter here," said Harding. "So if the mite doesn't overwinter, or isn't infectious, then we don't see the disease."

Symptoms present themselves differently depending on both the weather and the cultivars, and the disease can be difficult to diagnose. Infected plants will display light green, yellow or white streaks on the leaves, parallel to the veins. As the crop matures, some plants will be stunted.

"The most conspicuous symptoms are the ones that are present in younger plants with light green or pale green or whitish streaking along the leaf blade," said Harding.

The disease can also look similar to stripe rust. When stripe rust occurs, it also manifests as yellow streaks, with

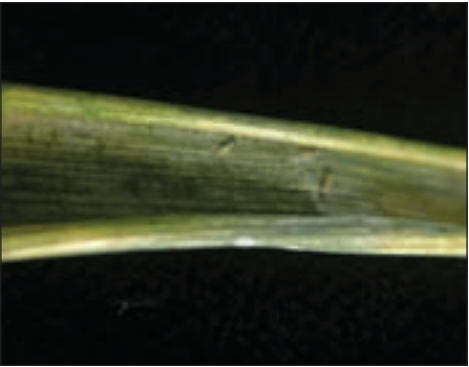


The wheat streak mosaic virus hasn't been in the province for over a decade, but has been popping up in Alberta over the past two years. PHOTOS: MIKE HARDING

orange spores eventually appearing on the leaf.

"If you go back the next day or two and you don't see orange stripes, it's probably not stripe rust," said Harding. "You can protect against stripe rust infection with fungicides, but wheat streak mosaic can't be managed with fungicides because it is a virus."

The wheat curl mite can damage the wheat crop by feeding on the plants. But the virus itself reduces the plant's ability



The wheat streak mosaic virus can only survive if it lives inside a vector – an insect known as the wheat curl mite.

"This is probably the most significant virus that we have had in the last 10 to 20 years."

MIKE HARDING

to photosynthesize and reduces its ability to fill grain heads.

"In many cases, you're losing the green tissue that you need to make plump kernels."

Wheat streak mosaic virus hasn't been an issue in Alberta for a long time.

"This is probably the most significant virus that we have had in the last 10 to 20 years," said Harding. "It's just a matter of all those planets aligning to get us to that spot. We have to have the mite, it

has to be infectious, and it has to spread from field to field."

'Green bridge'

Alberta winters typically kill off the wheat streak mosaic virus. But the virus can survive when there is a "green bridge" — such as winter wheat that stays green through the winter.

"If you have a wheat streak mosaic virus in the area and it comes up at the same time that there are wheat curl mite issues in the spring cereals that haven't been harvested yet, the vector moves into the cereals and survives in the green tissues through the winter and then green bridges through a season when it would normally die," said Harding.

The disease is rare, so there are no treatments, and no resistant or tolerant varieties.

While there are lots of good reasons to seed winter wheat early, wheat streak mosaic virus is one reason to seed winter wheat at a later date.

"We don't want to see this overwinter and be a problem again next year," he said.

Community effort is what really will cut down the disease, and so everyone in the area needs to take action.

"If eight out of 10 avoid green bridging, but two don't, everyone could have the disease," said Harding.

Anyone who has a field with wheat streak mosaic in it will want to control their volunteers. Last year, when the disease showed up late in the season, some producers cut the crop and baled it for green feed. Other who found the virus early enough took off the infected crop, and seeded another, non-cereal crop.

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Beware of this ornamental escapee

BY TORI CHERNIAWSKY
AGRICULTURAL FIELDMAN,
SMOKY LAKE COUNTY

NOXIOUS WEEDS

It has a beautiful yellow showy flower, but do not let that fool you — Bighead Knapweed is highly invasive. This invader is a long-lived perennial native in eastern Europe. It produces an abundance of seeds, which have bristles that can easily attach to animal fur. It can be found in flower beds throughout Alberta. Bighead Knapweed flowers from July to September, and can grow 50 to 170 centimetres tall. It has a large tap root that becomes hardier with age. The leaves are lance shaped and 10 to 30 centimetres long with slightly pointed tips. Leaf margins



Many Alberta gardeners have cultivated Bighead Knapweed, but it is a noxious weed and should be reported if found. PHOTO: AAAF

are smooth, covered with short fine hairs, and dotted with resin glands. Bighead Knapweed is the largest variety in the knapweed family. Many infestations result from garden or flower bed escapes. That is why it should not be grown as an ornamental. Bighead Knapweed is listed as a prohibited noxious weed under

the Alberta Weed Control Act. Local authorities, such as your local agricultural fieldman, must be notified if it is found. For more information on this or any invasive plant, contact your local Agricultural Fieldman (www.aaaf.ab.ca) or the Alberta Invasive Species Council (www.abinvasives.ca).



Contact your local fieldman at www.aaaf.ab.ca



For more information on noxious weeds: www.abinvasives.ca

Did your spraying do the trick?

If weeds survived, you need to figure out what went wrong so you can avoid a repeat

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Field scouting after herbicide application can lead to more successful crop production. “In the majority of cases, producers will find that the chemicals have done their job” said provincial crop specialist Mark Cutt. “However, in certain situations, field scouting may show the weeds weren’t properly controlled.” If so, figure out what went wrong. “A difference in the pattern of weed escapes can indicate poor performance of an herbicide due to environmental condi-

tions, such as temperature, or the possibility of herbicide-resistant weeds being present. If the weeds that escaped the herbicide application are found throughout the entire field, it can point to limited herbicide effectiveness due to environmental conditions. However, if the weeds are found in isolated patches, this may be due to a herbicide resistance issue. If you are unsure of the cause, you should contact an agronomist or chemical company representative to discuss the possible causes of the weed escapes.”

“For example, barley leaf diseases such as scald and net blotch move from the older leaves to the newer leaves as the growing season progresses,”



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PHOTO: THINKSTOCK

FOCUS ON GRAIN STORAGE & HANDLING

Three ways producers can better manage their stored grain

Invest in monitoring, learn the three basic principles of drying, and clean out those bins before harvest

BY JEFF MELCHIOR
AF CONTRIBUTOR

When farmers look at their full grain bins they are essentially looking at thousands of dollars in investment. The last thing any producer wants is to lose any part of that investment before it even leaves the farm, but that's exactly what happens every year due to over-heating and spoilage.

There are three basic things producers need to do to avoid that, said Joy Agnew with the Prairie Agricultural Machinery Institute.

1) Better monitoring

Many producers hold back on buying a monitoring system because of cost and concerns about their effectiveness.

However, costs are coming down, and both efficiency and ease of use are improving, said Agnew.

But the real issue is managing risk, she added.

"Grain conditions can turn quite quickly during storage and if you're not monitoring carefully, an entire bin can spoil before preventative action can be taken," she said.

"Look at it this way: If you had a bucket containing a million dollars in cash and it was hanging around in some relatively insecure building on your farm, how often would you go check on it? Probably daily, and you'd probably invest in some kind of monitoring or alarm system to keep you apprised of the condition or status of that bucket of cash. A 100,000 bushels of canola, for example, is worth a million dollars, so it needs to be monitored.

"We never think an entire 100,000-bushel bin can spoil. But it can and it has happened, as recently as last spring in Saskatchewan."

Agnew sympathizes with producer concerns that many of today's monitoring systems are not as cost-efficient as they would like.

"The gold standard in grain sensors right now is the strands of sensors suspended inside the bin. They're great but they only monitor a relatively small portion of the grain itself," she said.

"Because grain is such a good insulator, if a hot spot exists three feet away from where a sensor is located, the sensor isn't going to pick up any difference until that hot spot grows and damages more grain."

However, there are both existing technology and new systems in the pipeline that tackle that issue.

"There's some well established technology like the OPI grain management system," said Agnew. "There are some up-and-coming technologies coming out of Winnipeg and Saskatoon that may automate little robots that transport themselves through the grain and transmit data back to a reader."

One question producers frequently have is whether moisture sensors are better than temperature sensors or vice versa. That depends, said Agnew.

"Some moisture sensors are great if you have tough grain you're trying to dry using natural air drying (NAD). That's the best way to determine the degree of drying you're getting. If the grain comes out of the field relatively dry, temperature sensors are probably all you're going to need to monitor aeration and storage conditions."

2) Know these terms: Aeration, NAD and EMC

The terms 'aeration' and 'natural air drying' are frequently used interchangeably but are actually quite different.

Aeration is used to cool and condition grain throughout the bin while NAD removes moisture. The biggest difference between the two is air flow rate — aeration system have a much lower air flow rate.

"A lot of producers assume that because they have a fan on their bin they can get some drying with that fan. That is not always the case," said Agnew. "The fan and duct systems have to be selected for NAD if that's what the farmer wants to do. NAD requires a half to one cubic foot per minute per bushel (cfm/bu) of air flow whereas aeration systems are usually designed for 0.1 cfm/bu — about a tenth of the air flow rate required for drying."

However, you can get aeration from an NAD fan.

"It'll just happen faster than with an aeration fan. If you only need aeration, your best bet is to go with a lower cost, smaller fan. If you think you're going to need both, invest in a larger fan that can achieve the higher air flow rate required for NAD."

There are several theories out there on what time of day and how long grain should be dried.

Producers need to understand the principle of Equilibrium Moisture Content (EMC), which is basically a measurement of the air's capacity to dry, said Agnew.

"EMC helps farmers understand which outside temperatures and outside relative humidity will actually result in drying of the grain," she said. "It all depends on grain conditions, air conditions, and air flow rate."

Go to www.pami.ca to find EMC charts for a wide variety of grains.

"Producers often get confused because EMC is different depending on the grain," she said. "The EMC of air at a set temperature and relative humidity is going to be different for wheat than for canola. You have to look at the appropriate chart for the grain you're drying."

While the concepts can be challenging to learn, stick with it, she said.

"The more you know, the better it's going to work for you. A lot of producers say, 'It doesn't really matter — we'll just turn on the fan and let it run.'"

"That's fine, but it's not going to be as efficient as it could be and it could result in overdrying or maybe not drying at all if you don't have sufficient air flow rate."

The problem with turning fans on and off based on EMC is that

CHART ► EMC FOR WHEAT

Temp °C	Relative Humidity (%)										
	35	40	45	50	55	60	65	70	75	80	85
-2	11.5	12.2	13.0	13.7	14.5	15.3	16.0	16.9	17.7	18.7	19.8
2	11.1	11.9	12.6	13.4	14.1	14.9	15.6	16.4	17.3	18.2	19.3
5	10.9	11.7	12.4	13.1	13.8	14.6	15.3	16.1	17.0	17.9	19.0
8	10.7	11.5	12.2	12.9	13.6	14.3	15.1	15.8	16.7	17.6	18.7
10	10.6	11.3	12.0	12.7	13.4	14.2	14.9	15.7	16.5	17.4	18.5
13	10.4	11.1	11.8	12.5	13.2	13.9	14.6	15.4	16.2	17.1	18.2
15	10.3	11.0	11.7	12.4	13.1	13.8	14.5	15.2	16.1	17.0	18.0
18	10.1	10.8	11.5	12.2	12.9	13.6	14.3	15.0	15.8	16.7	17.7
22	9.9	10.6	11.3	11.9	12.6	13.3	14.0	14.7	15.5	16.4	17.4
26	9.7	10.4	11.1	11.7	12.4	13.0	13.7	14.4	15.2	16.1	17.1
28	9.6	10.3	11.0	11.6	12.3	12.9	13.6	14.3	15.1	15.9	16.9

Equilibrium Moisture Content is a measurement of air's capacity to dry based on outside temperature and relative humidity. Above is a chart indicating the EMC for wheat. If you blow air with a relative humidity of 50 per cent and a temperature of 5 C through wheat, that wheat will eventually equilibrate to 13.1 per cent. SOURCE: PAMI.

it requires extensive monitoring and, in many cases, investment in automatic fan control in order to consistently hit the sweet spot.

"It's very complicated, not well understood and not easy to implement, so honestly my recommendation to producers is to run your fans continuously until you have an automatic fan control," said Agnew. "The OPI system has a full fan control system available on the market. It's quite costly and is only really cost effective for very large bins 30,000 bushels and up. Most producers I talk to say they want

technology that is suitable for 5,000 to 15,000 bushel bins."

3) Clean bins between loadings

This is crucial to prevent insect infestations and mould, said Agnew.

"After grain is unloaded and the augers have gotten everything, a person has to go in and sweep up any excess grain that could be stuck or caught along the edge and bottom edge of the bin, around doors and trap doors or anything like that. That's where old grain can mould, rot, sit and fester or

foster microbial or insect infestations."

But think safety first.

"Do it early in the morning because those bins get really hot once the sun comes up — don't be going in there when it's 50 or 60 degrees inside the bin," said Agnew, adding proper breathing protection is a must.

"There's dust in there, and there could be fungal spores and mites and things that could irritate the respiratory tract. Be sure to filter those things out by wearing a mask."



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HEARTLAND

Community news
and events from
across the province

Neil Dimmock's big dream — and his really big wagon train

BY KRISTI COX
AF CONTRIBUTOR

Planning and preparation make for a good road trip — especially if your mode of transportation is 30 horses pulling eight wagons.

Neil Dimmock needed porta-potties, campers, dozens of volunteers (and enough food to keep them happy), generous landowners and sponsors, a stack of permits, hundreds of gallons of water, tons of hay and oats, the right horses, a lot of determination, and the skill to pull it off.

In all the “Big Hitch” travelled over 50 kilometres between July 2 and 6th before trailering in for the Stampede Parade on July 8.

The venture was a partial realization of a long-held dream: Do what famed horseman Slim Moorehouse had done in 1925 when he drove 36 Percherons and 10 wagons with 1,477 bushels of grain from Gleichen for the Stampede Parade. Dimmock was just 16 years old when he saw a picture of Moorehouse's hitch in a restaurant in Gleichen.

“It covered the whole wall,” Dimmock remembered. “When I got back I was talking to Grandfather about it, and I said, ‘Some-day I’ll redo that.’”

Draft horses are in Dimmock's blood, and he has worked with them his entire life. Some of his Percherons can be traced back to the 200 mares, geldings, and studs his family started with in the 1860s. He and wife Kim, along with their children, live in Mundare and operate Hitch Masters Percherons. They farm with their horses, have a wagon ride business, and train horses and drivers.

Dimmock's had hoped to not only recreate Moorehouse's 1925 accomplishment, but also break the world record for the most Percherons in one hitch. A combination of the passing of a gentleman who was going to loan several of his horses, and difficulties in getting horses across the U.S. border, put that plan on hold this year.

Tricky driving

The entire rig ran about 290 feet long. It takes exceptionally good lead horses for this.

“They're about 175 feet away from me and I need to be able to steer them with just a light pull on the line,” Dimmock said. “That's like driving your car standing at the back of the trunk with two strings on the steering wheel.”

Dimmock has only two sets of lines, one to the leaders and one to the wheel horses, which are closest to the wagons. Turning a 90-degree corner isn't a simple feat.

“We need to keep the wagons going straight while the horses start turning the corner,” Kim Dimmock explained at a demonstration in Strathmore along the way.

To accomplish this, they



Some of the volunteers put on period dress in the reenactment of famed horseman Slim Moorehouse's 1925 feat.

PHOTO: KEVIN LINK



It's a view like no other as Neil Dimmock looks towards his lead pair — 175 feet ahead of him — and for drivers who witnessed the ‘Big Hitch’ crossing the Trans-Canada Highway.

PHOTOS: KIM DIMMOCK AND KRISTI COX



In all the “Big Hitch” travelled over 50 kilometres between July 2 and 6th before trailering in for the Stampede Parade on July 8.

unhook two horses from midway along the hitch, and have them pull toward the outside of the corner. This keeps the wagons tracking in a straight line while the horses are moving around the corner.

“Once Neil determines that it's gone far enough, he will have the horses come back in,” she said.

Her husband then demonstrated this turning technique by manoeuvring the horses and wagons into almost a full circle in the arena.

Excellent communication and teamwork are key. On the evening of the first day, a wagon caught a soft spot at the edge of the road and slid down into the ditch, pulling some of the other wagons along with it. Dimmock quickly assessed the situation and worked with his crew of volunteers to get the horses in the right position to pull the wagon up and out of the ditch. Perhaps more than anything else along the way, it showcased just how well this team works together.

“I'm one of probably four or five guys in North America who can do this sort of thing,” Dimmock said. “The knowledge isn't there anymore. I really had to dig and hunt and look for old books. I visited for hours with old people on

when they were first handed the reins of a team of big horses to harrow the fields at the age of 12.

Ivy Bogstie, 99 years young, came to the Canada Day celebrations in Gleichen to see the hitch. Her father-in-law sold wagons to Moorehouse through his Massey Ferguson dealership and she has a dim memory of that long-ago event.

“I just remember seeing a long line of horses going down the road,” she recalled.

Moorehouse's daughter, Joan Riise, came from Williams Lake, B.C. to be an outrider after a friend spotted the event on a website and told her, “Did you know there's some guy about to do something like your dad did?” Joan was glad to join them in this tribute to her father.

If they can gather enough sponsorships, the Big Hitch group will try again next year and aim for the world record.

They repeatedly expressed appreciation for the many people and organizations who contributed to this year's effort. Anyone who is interested in helping out next year with anything from horses to hay to money can contact them through myevent.com/thebighitch or dimmock_13@hotmail.com.

what's up

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

July 20: Livestock Gentec's Kinsella Field Day, Roy Berg Kinsella Research Station, Kinsella. Contact: Andrea 403-948-1528

July 20: Castor/Killam Field Day Tour, Battle River Research Group Office, Forestburg. Contact: Eric Neilson 780-582-7308

July 20: Promoting Sustainability & Safety of farm production seminar, West Central Forage Association office, Entwistle. Contact: WCFA 780-727-4447

July 21: Alberta Wheat Day, Farming Smarter field site, 21112 Jail Rd. Lethbridge. Contact: Jamie 403-381-5118

July 22-24: International Mountain Section of the Society for Range Management Summer Tour, University of Alberta Rangeland Research Institute Ranch (Mattheis Research Ranch), Brooks. Register at: rangeteam.wordpress.com by July 8.

July 26: Salinity Causes and Cures, Wheatland County Office, Strathmore. Contact: Rachel McLean 403-995-9466

July 26: Making the Grade — A Hands-on Grading Day for Farmers, Lakeland College, Vermilion. Contact: Rick Taillieu 780-678-6167

July 27: 2016 Lacombe Field Day, Field Crop Development Centre, Lacombe. Contact: Ag-Info Centre 1-800-387-6030

July 28: Alberta Organic Producers Association field day, Daryl Cole Farm, Vegreville. Contact: Kathy 780-939-5808

July 28: Alberta Innovates — Technology Futures Vegreville Field Day, AITF facility, Vegreville. Contact: Chariti 780-632-8618

July 28: Disease Plot Hop, Farming Smarter field site, 21112 Jail Rd. Lethbridge. Contact: Jamie 403-381-5118

July 28: GRO Crop Tour, Gateway Research Organization office, Westlock. Contact: Sandeep Nain 780-249-1440

Aug. 3: Holistic Management Open Gate (Merle Good), Redtail Farms, Castor. Contact: Kelly Sidoryk 780-872-2585

Aug. 4: Forestburg Field Day Tour, Battle River Research Office, Forestburg. Contact: Eric Neilson 780-582-7308

Aug. 8-10: Transboundary Water, Weeds, & Stewardship Tour, Montana and southern Alberta. Contact: Kerry 403-642-2255

Aug 9 - 11: Canadian Beef Industry Conference, Grey Eagle Resort and Casino, Calgary. Contact: Rick Dehod 780-427-4466

Alberta farmers putting on a really big show

STAFF

Nearly 100 Alberta farm families will be welcoming visitors to their operations for Open Farm Days on Aug. 21.

The long list of participants includes a variety of livestock operations (cattle, bison, alpaca, sheep, llama, goat, poultry, and heritage pigs); crop farms (honey, fruit, vegetable, and grain); organic operations; and agri-tourism businesses (U-pick, corn mazes, petting zoos, wineries, meaderies, and distilleries).

There are also demonstration farms and displays from agriculture societies, including the Enchant Demonstration Farm (integration of cropland and habitat enhancements); Rancho Relaxo (permaculture); Big Country Agriculture Society (displays along with demonstrations of sheep shearing, flour grinding, bread making, and making butter and ice cream); and Airdrie & District Agricultural Society (horticulture and bench show).

As well, there are tours at



Humphrey Banack said visitors were “amazed” at the scale of his equipment when they visited his Round Hill operation last year on Open Farm Days. PHOTO: ALBERTA FEDERATION OF AGRICULTURE

Canada Gold Lamb Farm/ Sungold Speciality Meats (farm tour with lamb producers and vets along with shearing and sheep dog demonstrations); the historic Bassano Dam (put on by the Eastern Irrigation District); Farming Smarter’s Lethbridge research farm; and the Reclaim Urban Farm in Edmonton.

On both Aug. 20 and 21, local chefs will team with Alberta producers to offer 23 culinary events.

For a complete list, go to www.albertafarmdays.com.

For farm visits, click on ‘Farm Experiences’ and then on individual farms for information on their event as well as directions. There is no cost to visit farms and ticket information for the culinary events can be found by clicking on ‘Culinary Experiences’ and then on individual events.

Open Farm Days, now in its fourth year, is a collaboration of the province, Ag for Life, the Alberta Association of Agricultural Societies, Travel Alberta, and participating host farms and ranches.

Three Albertans among new crop of Nuffield scholars

NUFFIELD CANADA RELEASE

Three Albertans are among the four 2017 Nuffield scholars.

Nuffield scholarships give individuals an opportunity to boost Canadian agriculture by allowing them to study the best production, management and marketing systems in the world.

“The opportunities and perspective that a Nuffield scholarship can provide are priceless in today’s global agricultural community,” said Kelvin Meadows, chairman of Nuffield Canada.

The 2017 scholars are:

- Kristina Polziehn (Alberta Wheat Commission scholarship) is from Sturgeon County and president of Axiom Agronomy, an independent crop consulting company. She has a masters of science from the University of Alberta with an extensive background in plant science and agronomy. She plans to study the applications for remote sensing in crop production through the use of manned and unmanned aircraft.

- Matt Hamill (Western Grains Research Foundation scholarship) is from Red Deer and works as an ag lender. In 2014, he became president of Red Shed Malting, one of the first craft malting companies in Alberta. He will study craft malting best practices, looking for ways to grow and improve the industry in Canada.

- Jason Fransoo (Glacier Media scholarship) is from Calgary and is the commercial manager of fertilizers for CP Rail. He will study global grain transportation systems in the search for practices and policies that could offer benefit to systems in Canada.

- Nicole MacKellar (Grain Farmers of Ontario scholarship) is a partner in her family’s cash crop operation and works as the manager of market development at the Grain Farmers of Ontario. Nicole will study the possibilities for branding of commodities that are further processed into ingredients.

The four new scholars will start their travels with a trip to Brazil in March 2017 for a week-long conference for Nuffield scholars. Their scholarships, worth \$15,000, require a minimum of 10 weeks of travel.

HEARTLAND Marketplace



JULY
UPDATE

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INDUSTRY LEADERS NEEDED ON ABP

Alberta Beef Producers (ABP) is proud to be a grass roots producer organization. We are an organization of producers, led by producers, speaking and working on behalf of cattle and beef producers in Alberta.

As a producer organization, our first priority is making sure that we speak and work as effectively as possible on behalf of Alberta cattle and beef producers. We are similar to all other grass roots organizations in the way that our effectiveness is very much influenced by the quality of the producers who become our leaders. The producers who are elected as ABP delegates provide leadership to the organization and a critical connection to the grass roots producers in

their respective zones. Those delegates who are elected to the ABP Board of Directors use their contacts with local producers and their knowledge of the industry to set the strategic direction for ABP.

We need good leaders for our organization and this is the time of year when we are accepting nominations for delegates to run in the 2016 fall elections. Producers in each of the nine geographic zones in the province can elect up to five delegates and one Cattle Feeder Council delegate to serve two-year terms. In order to ensure continuity and experience in our delegate body, delegate elections are staggered and this year, there are two delegate positions open for election in each zone, and Cattle Feeder Council positions open for election in zones 2, 4, 6, and 8.

ABP is a democratic and representative organization and our delegates are the foundation of that representation. Clearly, one of the most important roles for delegates is the connection to grass roots producers. Delegates need to hear the concerns and issues of local producers and bring these forward to ABP so that they can be addressed. It is also important for delegates to make grass roots producers aware of the priorities and activities that ABP and our partner organizations are pursuing on behalf of producers. We are funded by check-off dollars from producers and you need to see value for that investment if you are going to continue supporting ABP.

Being an ABP delegate is not financially rewarding, but we do try to offset some of the costs associated with

participation in an industry organization. There is significant satisfaction in making a meaningful contribution to your industry and the rewarding experience of working with the dedicated and knowledgeable producers who are true industry leaders. Delegates also have opportunities to serve on ABP committees and councils, become ABP directors, or represent ABP on the boards of our partner organizations such as the Canadian Cattlemen’s Association and Canada Beef.

Producers who want to become ABP delegates can find nomination forms on the ABP website (www.albertabeef.org/page/delegates-directors) or by calling the ABP office. Nominations must be submitted to the ABP office by August 31, 2016. Please consider being a leader. ▼

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1958 PIPER COMANCHE 250, 6136 TTAf, 90 gal./tips, turbo's, IFR, autopilot slaved to GPS. Tech logs/ pics: www.fwtstltd.com \$68,250. 780-356-2928, Beaverlodge, AB.

1974 CESSNA 182 Skylane, 1100 TT, ballistic parachute, speed kit, STOL kit, all-ways hangared, no damage. Swift Current, SK. Call 306-553-2227 or 306-741-3108.

1956 CESSNA 172, 3335 TTAf, 2100 TTAf, new C of A, cylinder compressions: 1/75, 3/76, 5/74, 2/77, 4/76, 6/73, \$26,500, runs and flies great. 403-819-1504 or email: dbrundage@shaw.ca Calgary, AB.

ALARMS/SECURITY SYSTEMS 0500

WIRELESS DRIVEWAY ALARMS, calving barn cameras, backup cameras for RVs, trucks and combines, etc. Home and shop video surveillance. View from any computer or Smart phone. Free shipping. Call 403-616-6610, Calgary, AB.

ANTIQUES 0701

FORD 9N TRACTOR with 3 PTH cultivator, Ford 8N tractor with 3 PTH cultivator, Warner Operating Equipment Auction, Sunday, August 7, 2016, 12 Noon, Kipling, SK. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

ANTIQUE EQUIPMENT 0703

RESTORED ANTIQUE TRACTORS: Cockshutt 20, JD's 420 Hi-crop, M, MN single wheel, BW 32" tires, H hand start. Call 403-660-8588, Calgary, AB.

JOHN DEERE AR, SN A3761R, running, painted, \$2500; 4 John Deere D's: SN 188099, not seized, was running, \$1200; SN 152204, fly wheel start, not seized, spoked front wheels, \$1500; SN 171663, elec. start, good sheet metal, not seized, painted, \$1200; JD D, good sheet metal, elec. start, not seized, painted, \$1400. Call 780-603-5307, Vegreville, AB.

1964 JD 1010 dsl, restored, S/N RS50059; Oliver 77 standard, original with panels, clean, S/N JA1235. Call 780-667-2220, Sherwood Park, AB.

1942 JD H, hand start; Also JD B. Both are restored, new rubber, \$5000 each. Prince Albert, SK. 306-961-1444, 306-426-2535.

OLD ELEVATOR ENGINES, Fairbanks and Ruston-Hornsby's. The Rustons are all on wagons. Call 780-991-6035, Leduc, AB.

1929 FORDSON TRACTOR, \$1500; Co-op 3 and Cockshutt #30, \$1800 each; Farmall cultivation A and B, \$2000 each; JD H, restored, \$5000; 1929 JD D, \$1500; 1928 Ford Model A 2 door sedan, restored, \$10,000; Approx. 100 gas engines 1.5 to 6 HP restored. 306-634-9326, Macoun, SK.

JD 430 tractor, JD M antique tractor, JD A tractor, Case LA, JD 110 garden tractor, enamel antique JD dealer sign. Warner Operating Equip. Auction, Sun., August 7, 2016 at 12 Noon, Kipling, Sask. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

ANTIQUE VEHICLES 0705

1966 FORD THUNDERBIRD convertible, 390 V8 automatic, stored inside. Call for details 306-259-4430, Young, SK.

AUCTION SALES 0900

ANTIQUE Misc. 0710

2016 KENASTON ANNUAL Flea Market Hosted by Ole' Den Antiques, Sunday July 31st and Monday August 1st. 9am-5pm daily. Collectibles, antiques, baking, hand-made items and more! Call Denis to book a table 306-491-6066. Located on Hwy 15, Kenaston, SK.

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

VILLAGE MERCANTILE ANTIQUE Mall: Purveyors of all manner of antiques. Appraisals, estate sales, buying and selling, tractors, collectibles, trucks, cars and bikes. If you would like us to come check out your treasures, give the Prairie Picker a call! 780-845-9167, Wainwright, AB.

2016 WILLIAM HOLDER Memorial Show 'n Shine: Hosted by Ole' Den Antiques, Monday August 1st in Kenaston, 10am-4pm. Vintage cars and trucks. Call Denis to enter your ride at 306-491-6066 Located on Hwy 15 in Kenaston, SK.

AUCTION SALES 0900



MACK AUCTION CO. presents a Farm Equipment Auction for Brian and Kim Cook 306-735-7720, Saturday, August 6, 2016, 10:00 AM. Live internet bidding! Directions from Langbank, SK. on Hwy 9 go 8 miles North, 2 miles West and 1/4 mile North Watch for Signs! JD 8570 4WD tractor with 5225 hrs; JD 9400 SP combine w/JD 912 PU header; JD 925 flex header w/PU reel, JD 2360 SP 25' swather w/belly mount swath roller, TX68 SP combine with 2096 hrs, 960 MacDon straight cut header, JD Titan II PT combine, JD 566 round mesh wrap baler, shop built straight cut header trailer, shop built swather transport, Harmon steel drum swath roller, 2007 Timpte 40' Super hopper alum. grain trailer w/air ride, 50' Morris Field Pro heavy harrow, new Valmar 2455 granular applicator sells with 50' air kit, 32' Bourgault 8800 seeding tool w/Bourgault 2155 and 3225 TBH cart, 41' Morris Magnum II CP-740 cultivator, 31' Morris Magnum CP-731 cultivator, Flexi-Coil System 82 60' time harrows, Co-op 16' tandem disc, 60' Spra-Coupe 3640 with Perkins diesel and Trimble AutoSteer, 2- Spra-Coupe 230-95R-32 crop sprayer tires, 1980 Ford F600 flat deck water truck with 2-1000 gal water tanks, Trimble EZ-Guide 500 display and EZ-Steer 500 AutoSteer, 2- Westeel Rosco 4200 bu. bins on hoppers, Westeel 3300 bu. bin on hopper with air, 2- Westeel 500 bu. hopper seed bins, 4- Westeel 2200 bu. bins on hoppers, Westeel Magnum 52 tonne fertilizer hopper bins, Grain Guard 3 HP aeration fans, Buhler Farm King 1070 swing auger with electric swing, Sakundiak 7-33 auger with 13 HP Power Ease engine, Sakundiak 6-41 auger, Rock-O-Matic 546 rockpicker, Degelman LC-14 rock rake, JD 430 round baler, 3 ton tandem axle fertilizer spreader, Meridian 500 gal. fuel tank with electric pump, Titan 18.4-38 duals tires with rims and clamps, plus much more! For sale bill and photos visit www.mackauctioncompany.com Join us on Facebook and Twitter. 306-421-2928 306-487-7815 Mack Auction Co. PL311962

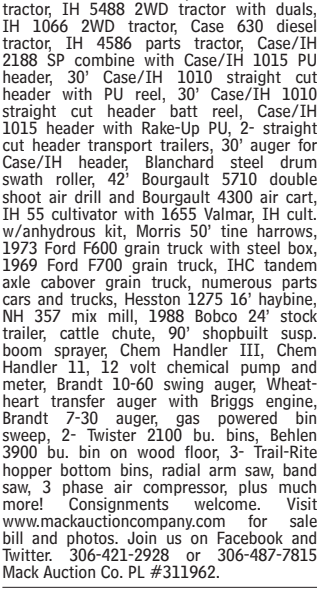
MACK AUCTION COMPANY presents a Construction Equipment Auction for Warner Operating Ltd, Michael and Dianne Warner, 306-577-7228, Sun., August 7, 2016 at 12:00 Noon, Kipling Arena, Kipling, SK Watch for Signs! 2002 Cat 143H motor grader w/low profile cab and 8300 hrs, NH 9030 bi-directional dsl. 4020 2WD tractor, Ford 9N tractor with 3 PTH cult., Ford 8N tractor with 3 PTH cult., 2010 Dodge 2500 4WD dsl. Crewcab truck, 2009 Dodge 2500 4WD diesel quad cab truck, 2008 Dodge Dakota 4WD Clubcab truck with 35,000 kms, 1998 Dodge 2500 4WD diesel truck, 2003 Titanium 32' 5th wheel camper w/slide and rear kitchen, Trailtech 28' gooseneck flat deck trailer with 7000 lb. axles, 2005 Schulte XH-1500 rotary mower, 2010 Schulte 9600 3 PTH snowblower, Degelman hyd. drive rock-picker, Degelman 3 PTH angle blade, MTK 10' land leveller, hyd. tree shear either loader or skid steer mount, Farm King 3 PTH snowblower, Crown 5 yard earth scraper, Grenfell snowblower, shop tools, office equipment. Plus The Estate of Lorne Oliver 306-421-9626. JD 430, JD M antique tractor, JD A tractor, Case LA, JD 110 garden tractor, JD 317 garden tractor, JD 214 lawn tractor, golf cart parts, wee wick, wood chipper, valve grinder, brake drum lathe, shop press. View www.mackauctioncompany.com for sale bill and photos. Join us on Facebook and Twitter. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

AUCTION SALE FOR Estate of Sophia Liss, Rose Valley, SK., Sunday, August 21/16, 9:30 AM. Includes 2 quarters land, buildings, machinery, household and antiques. RM #367 Ponaass Lake. View: www.ukrainetzauktion.com PL 915851.

AUCTION SALES 0900



MACK AUCTION CO. presents a Farm Equipment Auction for Cary Adacsi, Friday, August 5, 2016, at 10:00 AM. Directions from Weyburn, SK, go 9 miles East on Hwy 13, 4 miles North and 3 miles West. Watch for signs! www.bidspotter.com for live internet bidding. Case/IH 9270 4WD tractor with Outback AutoSteer, IH 4586 4WD tractor, IH 5488 2WD tractor with duals, IH 1066 2WD tractor, Case 630 diesel tractor, IH 4586 parts tractor, Case/IH 2188 SP combine with Case/IH 1015 PU header, 30' Case/IH 1010 straight cut header with PU reel, 30' Case/IH 1010 straight cut header batt reel, Case/IH 1015 header with Rake-Up PU, 2- straight cut header transport trailers, 30' auger for Case/IH header, Blanchard steel drum swath roller, 42' Bourgault 5710 double shoot air drill and Bourgault 4300 air cart, IH 55 cultivator with 1655 Valmar, IH cult. w/anhedrus kit, Morris 50' tine harrows, 1973 Ford F600 grain truck with steel box, 1969 Ford F700 grain truck, IHC tandem axle cabover grain truck, numerous parts cars and trucks, Hesston 1275 16' haybine, NH 357 mix mill, 1988 Bobco 24' stock trailer, cattle chute, 90' shopbuilt susp. boom sprayer, Chem Handler III, Chem Handler 11, 12 volt chemical pump and meter, Brandt 10-60 swing auger, Wheat-heart transfer auger with Briggs engine, Brandt 7-30 auger, gas powered bin sweep, 2- Twister 2100 bu. bins, Behlen 3900 bu. bin on wood floor, 3- Trail-Rite hopper bottom bins, radial arm saw, band saw, 3 phase air compressor, plus much more! Consignments welcome. Visit www.mackauctioncompany.com for sale bill and photos. Join us on Facebook and Twitter. 306-421-2928 or 306-487-7815 Mack Auction Co. PL #311962.



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2012 FIAT 500 Pop, 27,000 kms, \$8995. Call 1-800-667-4414, Wynyard, SK. www.thoens.com DL #909250.

2015 SUBARU WRX, 2.0L H-4 cyl, 30,963 kms, stk#U02102. Call for our best price! Call 1-877-373-2662, DL #914077, or www.subaruofsaskatoon.ca

2012 SUBARU LEGACY 2.5i Ltd. AWD, 2.5L H-4 cyl., 61,869 kms, stk# SK-5357A. Call for price! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.

TRAILERS

GRAIN TRAILERS 1505

1996 MIDLAND 24' tandem pup, stiff pole, completely rebuilt, new paint and brakes; like new, \$18,500. Merv 306-276-7518, 306-767-2616, leave message, Arborfield, SK. DL #906768.

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2015 CHEV 3/4 ton, High Country, DMax, crewcab, 4x4, 6.6L, V8, load, 36,145 kms, Stk#G1276A, \$68,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

2014 GMC SLE 1/2 ton, crewcab, 4x4, 5.3L, V8, loaded, Black, 147,541 kms, Stk#G1503A, \$26,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2013 GMC SLT 1/2 ton, crewcab, 4x4, 6.2L, V8, loaded, leather, 119,011 kms, Stk#G1517A, \$40,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2013 FORD F150 Platinum, 4x4, Super-Crew, 5.0L, loaded, Nav, 43,114 kms, Stk#G1211A, \$40,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

2012 FORD F150 4x4 XLT, ext cab, 8' box, EcoBoost, 8400 GVW, remote start, 1 owner, no accidents, new brakes/tires, exc. cond., b/u cam, 165,000 kms, \$15,750. 780-718-2923, Sturgeon County, AB.

2011 CHEV LTZ 1/2 ton, crewcab, 4x4, GFX 5.3L, V8, loaded, leather, 65,619 kms, Stk#G1110B, \$32,995. 1-800-667-0490. www.watrousmainline.com DL#907173.

1992 GMC 3/4 ton, diesel, new tires, very little rust, needs transmission. Phone 780-744-2180, Kitscoty, AB.

FOUR WHEEL DRIVE 1670

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2015 GMC SLT 1/2 ton, crewcab, 4x4, 5.3L, loaded, NAV, sunroof, 28,239 kms, Stk#G1472A, \$49,395. 1-800-667-0490. www.watrousmainline.com DL#907173.

2014 GMC SLT 1/2 ton, crewcab, 4x4, 5.3L, V8, loaded, leather, 116,951 kms, Stk#G1282A, \$35,395. 1-800-667-0490. www.watrousmainline.com. DL#907173.

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GRAIN TRUCKS 1675

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RETIRED: IHC 1824 Grain truck, steel box, new clutch, roll tarp, 114,000 kms. shedded, \$11,500. 403-599-3790, Milo, AB

2007 IH 9200, Cummins ISX 10 speed, Ultrashift, 20' grain box, \$69,500. 2006 Mack CXN613, Mack 427 HP 10 spd. Auto-Shift, 22' grain/silage box, \$69,500. 2006 Mack CXN613, Mack 417 HP 10 spd. Auto-Shift, 21' grain box, \$66,500. Davidson, SK. 306-567-7262, www.hodginshtc.com DL #312974.

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2008 IH PROSTAR, 13 spd. auto, new 20' B&H, \$58,500; **2007 MACK**, auto, new 20' B&H, \$57,000; **2007 IH 9200**, 10 spd. std, new box, \$47,000. Contact 306-563-6651, Canora, SK

2008 KENWORTH T800 ISX, 485-500 HP Cummins, 18 spd. trans, sunroof, 24.5 tires, alum. wheels, 4-way locks, 14' front axle, 46 rears, 3.91 ratio, new 20' box w/elec. tarp, remote hoist and tailgate, exc. shape, fully dressed, 772,864 kms, \$72,500. Call Merv, Arborfield, SK, 306-767-2616, 306-276-7518 DL #906768

GRAVEL TRUCKS 1676

1989 GMC TANDEM automatic, 15' B&H, Cummins, very clean, rust free, \$19,900; 2001 Sterling, Allison auto., 300 HP Cat, 14' box, good condition, \$29,900; 2001 Freightliner, Allison automatic, 300 HP Cat, 14' box, low kms, \$29,900. **K&L Equipment**, Ituna, SK., 306-795-7779, ladimer@sasktel.net DL #910885.

SEMI TRUCKS 1677

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SPECIALIZED TRUCKS 1680

1999 IH 4700, SA, flatdeck w/17' steel flatdeck, 11x22.5 tires, 230,000 kms, 444 IH dsl., 10 spd., safetied, real good shape, \$19,500. **1994 GMC Topkick** tandem with 24' flatdeck, 563,000 kms, 3116 Cat diesel, 10 spd., 11x22.5 tires, real good shape, \$21,500. Call Merv at 306-276-7518, 306-767-2616, Arborfield, SK. DL #906768.

2004 FREIGHTLINER CONDOR, very low miles, C&C, long WB, C10 Cat, Allison auto, complete hyd. system, includes hyd. side arm lift, suitable for conversion to a bale hauler, \$19,900. **K&L Equip.**, Ladimer, 306-795-7779, Ituna, SK. DL #910885.

3- 17 BALE SELF LOADING TRUCKS: 2000 IHC Eagle, 1999 Freightliner and 1998 Freightliner. 780-975-3445, Stony Plain AB

FUEL TRUCK: 1996 T450 Kenworth, 3600 gal., dual pumps and meters; 2009 IH tandem 7600, ISX, 10 spd., 24' van w/power tailgate. Call 306-493-9393, Delisle, SK.

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2011 FORD F250 4x4, Super Duty XLT, 178,900 kms, service body, 4 door ext.cab, 6.2L V8, hitch, nice shape, \$16,900 1-800-667-4515, www.combineworld.com

FUEL TRUCKS: 2002 Ford Sterling, tandem, \$42,500; **2002** Freightliner FL80, tandem, \$42,000; **2002** Freightliner FL80, single, \$16,500; **1988** IH 1700, single, \$8000. Call 306-563-6651, Canora, SK.

1972 GMC 4500, V8 4 spd., wood deck, 1600 gal. BMI water tank, compact water pump on back, \$2500. Call 306-736-8336, Kipling, SK.

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2014 JEEP CHEROKEE LTD, 4WD, 3.2L, V6, loaded, NAV, sunroof, 82,117 kms, Stk #G1511A, \$26,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2015 BUICK ENCLAVE, AWD, 3.6L, V6, loaded, NAV, heated leather, 42,357 kms, Stk #G1054A, \$44,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2014 BUICK ENCLAVE, AWD, Convenience 3.6L, loaded, cloth, Iridium, 68,628 kms, Stk #G1280A, \$32,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2013 GMC TERRAIN SLT2, AWD, 2.4L, 14, loaded, sunroof, Grey, 61,235 kms, Stk #G1516A, \$25,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2012 SUBARU TRIBECA Ltd. H-6 7 pass. AWD, 59,725 kms, stk# SK-3144A. Call for our best price! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.

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2008 SUBARU OUTBACK Ltd., Turbo, AC, leather, 55,000 kms, stk#SK-U0901. Call for our best price! 1-877-373-2662 or www.subaruofsaskatoon.ca DL #914077.

2012 CHEV ORLANDO 1LT, 7-Pass, 2.4L, 4 cyl., loaded, cloth, Grey, 129,739 kms, Stk#G1050A, \$13,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2011 GMC ACADIA SLE, AWD, 3.6L, V6, loaded, towing, cloth, Green, 87,469 kms, Stk#M7161A, \$23,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2013 FORD EDGE Sport, AWD, V6, NAV, sunroof, 22' wheels, leather, 61,993 kms, Stk #G1305A, \$39,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2015 GMC ACADIA SLT1, AWD, 3.6L, V6, loaded, Nav, heated leather, 48,853 kms, Stk #G1243A, \$39,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

2012 GMC ACADIA Denali, AWD, 3.6L, V6, loaded, sunroof, leather, 87,469 kms, Stk#G1439A, \$32,395. 1-800-667-0490. www.watrousmainline.com DL #907173.

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BUILDINGS 2601

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2002 CAT 143H motor grader with low profile cab and 8300 hrs. Warner Operating Equipment Auction, Sunday, August 7, 2016, at 12 Noon, Kipling, Sask. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

HYDRAULIC CAT 70 scraper, good condition, \$22,000 OBO. Call 204-655-3352 or 204-655-3286 leave message. Sifton, MB.

FOR SALE: two CAT 621F motor scrapers, recent w/o on engines, new hitches, good rubber, very clean, \$140,000/ea.; CAT 613C water wagon, 5000 gal., good cond., \$25,000; CAT 50KW genset, new engine, \$12,000; Northgate Wellsite, 2006 model, 12'x56', mint cond., central vac, A/C, large office, kitchen, washer/dryer, bdrm, 2 baths, storage, \$60,000; Newly renovated wellsite, 12'x50', new tin, new roof, 2 kitchens, 2 bdrm, 2 bath, central vac, A/C, \$40,000; Two 30', 2012 Load Line tridem end dump trailers, like new, \$45,000/ea. Call Brian 306-520-8120, Arborfield, SK.



39 HEAVY APPLICATIONS specializes in road construction, landscape, soil and asphalt heavy equipment. A strong relationship with our customers is the most important part of our business, we are proud to be able to provide unmatched support, from rentals and sales, to servicing and acquiring parts. We provide high quality undercarriage parts and tracks for all Major Brands, at a great price (Up to 20-50% off OEM). Call 587-472-2039, Calgary, AB.

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BINS 4003

BIN MOVERS. Lil Truck Hauling Ltd 2016. Good rates. For more info or estimates call Merle 306-338-7128, Fred 306-338-8288.



2015 CIM BIN Cranes (Westeel design), 8000 lb. capacity. For factory direct pricing and options call 306-682-2505, Humboldt, SK. or www.cim-ltd.ca

2015 CIM BIN TRANSPORT TRAILER 17,000 lb. cap., 32' bed accommodates up to 21' dia. bin. For factory direct pricing and options call 306-682-2505, Humboldt, SK. or www.cim-ltd.ca

WANTED: OLDER STYLE BIN crane, also 14' diameter hopper cones for Westeel Rosco bins. 780-405-8089, Tofield, AB.

GRAIN BIN ERECTION. Concrete, turnkey installation, remodel and repair. Bin bolts, nuts, and caulking in stock. Call Quadra Development Corp, 1-800-249-2708 or d.lonseth@sasktel.net

2- WESTEEL ROSCO 4200 bu. bins on hoppers, Westeel 3300 bu. bin on hopper with air, 2- Westeel 500 bu. hopper seed bins, 4- Westeel 2200 bu. bins on hoppers, Westeel Magnum 52 tonne fertilizer hopper bins. Brian Cook Farm Equip. Auction, Saturday, August 6, 2016, Langbank, Sask. area. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

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.

2- WESTEEL ROSCO 3300 bu. steel bins, not hopped, on concrete pads, ladders and lid openers, good condition. Phone for details. 306-259-4430, Young, SK.

CHIEF WESTLAND AND CARADON BIN extensions, sheets, stiffeners, etc. Now available. Call Bill, 780-986-5548, Leduc, AB. www.starlinesales.com

BIN MOVING, all sizes up to 19' diameter, w/wo floors; Also move liquid fert. tanks. 306-629-3324, 306-741-9059, Morse, SK.

SUPERIOR BINS: Hopper bottoms from 3300 to 12,000 bu.; 18' 5000 bu. combo at \$11,800. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

8- 1900 BU. **TWISTER** bins, Micada hoppers, Micada double skids; 6 w/18" full air, 3 HP 220V fans; 2 bins without air. All w/grain level indicators and OPI cables. 306-369-7724, 306-369-4164, Bruno, SK.

SUPERIOR BINS: Large diameter concrete or steel floor mounts. All sizes available. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

PREPASS FLEX tank contamination. We have documented damaged crops from PrePass FLEX tank contamination. If you have experienced this please call Back-Track Investigations 1-866-882-4779 for assistance/claim. backtrackcanada.com

HOPPER BOTTOM CONES: We make cones and steel floors for all makes of bins. Call Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK. Visit us on-line at: www.middlelakesteel.com

2- 3300 BUSHEL Westeel Rosco flat bottom bins, \$1/bu. OBO. 306-297-7857, Palmier, SK.

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: 3500 bu. Meridian/Behlen bin/hopper combo, 10 leg hopper and skid, roof and side ladder, safety fill, constructed, \$10,195 FOB Regina, SK. Contact Peterson Construction, 306-789-2444.

USED WESTEEL ROSCO Bins Two 3350's; One 2750. All with new style doors. 1\$/bu OBO. 306-648-7766, Gravelbourg, SK.



POLY GRAIN BINS, 40 to 150 bu. for grain cleaning, feed, fertilizer and left over treated seed. 306-258-4422, Vonda, SK. www.buffervalley.com

2- 1650 WESTEEL ROSCO bins on wooden floors, one floor fair condition, \$850 each. Call Greg at 306-436-4426, Milestone, SK.

3 WESTEEL 3300 bu. bins, poor wooden floors, \$600/ea. Contact 306-834-7759, Kerrobert, SK.

STORAGE/CONTAINERS 4005

20' AND 40' SEA CONTAINERS, for sale in Calgary, AB. Phone 403-226-1722, 1-866-517-8335. www.magnatesteel.com

SHIPPING CONTAINERS FOR SALE. 20'-53', delivery/ rental/ storage available. For inventory and prices call: 306-262-2899, Saskatoon, SK. www.thecontainerguy.ca

20' AND 40' SHIPPING CONTAINERS, large SK. inventory. Ph. 1-800-843-3984, 306-781-2600.



HORNOI LEASING NEW and used 20' and 40' sea cans for sale or rent. Call 306-757-2828, Regina, SK.

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KEHO/ GRAIN GUARD Aeration Sales and Service. R.J. Electric, Avonlea, SK. Call 306-868-2199 or cell 306-868-7738.

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BATCO CONVEYORS, new and used, grain augers and SP kits. Delivery and leasing available. 1-866-746-2666.

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

LOOKING FOR A floater or tender? Call me first. 36 years experience. Loral parts, new and used. Call 403-650-7967, Calgary, AB.



2- 2010 CASE 4520's, 70' booms: 3-bin, 3100 hrs., \$168,000; 1-bin, 2600 hrs. \$154,000. **SPECIAL- 2010 Case 4520, 1 bin, 5100 hrs., \$98,500;** 2- 2007 Case 4520s, 3-bin, 70' booms, 3300 hrs., AutoSteer, \$144,000 and \$124,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' flex air, 4000 hrs., \$78,000; 2004 Case 4010, 80' sprayer, 7000 hrs., \$68,000; 2- 2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$93,000; 2006 2-bin Ag-Chem, 70' booms, \$78,000; 2002 K&H Semi tender, self-contained, \$36,000; 2009 and 2012 Merritt semi belt tender, self contained, \$38,500 and \$44,000; 2008 Komatsu WA70-5, 2200 hrs., \$27,500; 2008 Doyle blender w/scale, \$17,000. All prices in USD. 406-466-5356, Choteau, MT. View www.fertilizerequipment.net

2- 2010 CASE 4520's, 70' booms: 3-bin, 3100 hrs., \$168,000; 1-bin, 2600 hrs. \$154,000. **SPECIAL- 2010 Case 4520, 1 bin, 5100 hrs., \$98,500;** 2- 2007 Case 4520s, 3-bin, 70' booms, 3300 hrs., AutoSteer, \$144,000 and \$124,000; 2006 Case 4510, AutoSteer, FlexAir 70' booms, 7400 hrs., \$77,000; 2005 Case 4520 w/70' flex air, 4000 hrs., \$78,000; 2004 Case 4010, 80' sprayer, 7000 hrs., \$68,000; 2- 2004 Loral AirMax 1000s, 70' booms, immaculate, \$76,000 and \$93,000; 2006 2-bin Ag-Chem, 70' booms, \$78,000; 2002 K&H Semi tender, self-contained, \$36,000; 2009 and 2012 Merritt semi belt tender, self contained, \$38,500 and \$44,000; 2008 Komatsu WA70-5, 2200 hrs., \$27,500; 2008 Doyle blender w/scale, \$17,000. All prices in USD. 406-466-5356, Choteau, MT. View www.fertilizerequipment.net

SUPERIOR BINS: Large diameter concrete or steel floor mounts. All sizes available. Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK.

PREPASS FLEX tank contamination. We have documented damaged crops from PrePass FLEX tank contamination. If you have experienced this please call Back-Track Investigations 1-866-882-4779 for assistance/claim. backtrackcanada.com

HOPPER BOTTOM CONES: We make cones and steel floors for all makes of bins. Call Middle Lake Steel 306-367-4306 or 306-367-2408, Middle Lake, SK. Visit us on-line at: www.middlelakesteel.com

2- 3300 BUSHEL Westeel Rosco flat bottom bins, \$1/bu. OBO. 306-297-7857, Palmier, SK.

CUSTOM GRAIN BIN MOVING, all types up to 22' diameter. 10% spring discount. Accurate estimates. Sheldon's Hauling, 306-961-9699, Prince Albert, SK.

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2- 1650 WESTEEL ROSCO bins on wooden floors, one floor fair condition, \$850 each. Call Greg at 306-436-4426, Milestone, SK.

3 WESTEEL 3300 bu. bins, poor wooden floors, \$600/ea. Contact 306-834-7759, Kerrobert, SK.

GRAIN AUGERS 4115

2013 GRAINMAX AUGER, 13x85, c/w bin sensor, vg shape, \$15,000 OBO. Flaxcombe SK., 306-463-3113, 306-463-8176.

2009 BRANDT 110x13 HP w/2012 pit exp-ress, not used last 3 yrs, c/w orig. swing auger, \$27,500. 306-873-7786, Bjorkdale.

BRAND NEW 2015 Wheatheart R8-51 (8"x51"), 35 HP Kohler elec. start, hyd. mover and lift. 306-338-2927 Wadena SK

MERIDIAN AUGER REBATE: Up to \$2000 off. Large inventory. Call for pricing. 306-648-3321, Gravelbourg, SK.

WESTFIELD 10x37 SP grain auger, electric start engine, \$8000. Near Waskatenau, AB., call 780-307-1516.

2012 SAKUNDIAK HD8-1600, 52", exc. shape, Hawes mover kit (2 wheel), Kohler 29 EFI HP electric clutch, \$12,000; 2013 Sakundiak HD8-1400, 46", excellent, Hawes mover kit (4 wheels), Kohler 27 HP V-Twin, elec. clutch, \$13,000. Bruno, SK. 306-369-7724, 306-369-4164.

2012 WHEATHEART 13x74 swing auger, like new, electric swing, hyd. winch, reverse-er, \$17,500. 306-493-7871, Harris, SK.

GRAIN BAGS/ EQUIPMENT 4116

2007 MAINERO 9' grain bagger, hyd. brakes, exc. cond., \$14,900; **2007 Akron E180T extractor,** 9-10' bags, exc. cond., \$17,900. 780-206-1234, Barrhead, AB.

GRAIN CARTS 4118

BRENT/UNVERFERTH 974 grain cart, PTO, roll tarp, excellent rubber, \$29,500. 780-679-7795, Camrose, AB.

NEW 2016 ARMSTRONG 750 bu. 4 wheel grain cart, \$26,900. **K&L Equipment and Auto,** Ladimer, 306-795-7779, Ituna, SK.

GRAIN CLEANERS 4121

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GRAIN DRYERS 4124

5500 VERTEC CONTINUOUS grain dryer w/24" Swett loading elevator leg, 48" Swett unloading elevator leg, multiple head with 4- 6" pipes. Includes propane tank, shunt augers. \$20,000. Prince Albert, SK., 306-961-1444, 306-426-2535.

SUPERB GRAIN DRYERS. In stock dryers at winter prices. Call Grant Service Ltd. 306-272-4195, Foam Lake, SK.

GRAIN VACUUMS 4133

TIM GRAIN VAC REPAIR Used REM grain vac's: 2700, 3700 and 2500. All have gone through shop for repairs. 306-784-2407, 306-772-1004, leave msg. Herbert, SK.

CONVEYAIR GRAIN VACS, parts, accessories. Call Bill 780-986-5548, Leduc, AB. www.starlinesales.com

HARVESTING/HAYING

BALING EQUIPMENT 4139

HESSTON 565 ROUND baler, good cond., \$4500; MacDon 5020 16' haybine, \$10,000 306-634-7920, 306-421-1753, Estevan, SK

WANTED: JD 7810 c/w FEL & 3-PTH; SP or PTO bale wagon; JD or IHC end wheel riders. Small square baler. 403-394-4401.

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

2000 JOHN DEERE 566 round baler, \$11,500. Raymore New Holland 306-746-2911, raymorenewholland.com

JD 450, 7' sickle mower, original knife, not shedded, \$1200. 306-744-7955, Saltcoats, SK.

GOOSENECK SELF UNLOADING round bale trailer, hauls 10 bales, sideways unload, can be pulled with a pickup, \$5000. Ros-thern, SK. 306-232-3442 or 306-232-5688

ATTENTION! WANTED: Do you have a 640, 650, or 660 damaged baler. We need a cab control panel for this type of baler. 780-405-8089, Tofield, AB.

2008 NH BR7090 round baler, \$14,900. Watrous New Holland 306-946-3301, visit us on-line: watrousnewholland.com

2007 NH BR780A baler, extra wide heavy duty pickup, well maintained, 500 bales on new belts, 13,000 bales, \$15,500. 306-662-3353, Maple Creek, SK.

566 JD MEGATOOTH baler, 1000 PTO, 11,200 bales, shedded, vg cond. Call 780-875-7051, Lloydminster, AB.

JD 566 ROUND mesh wrap baler. Brian Cook Farm Equipment Auction, Saturday, August 6, 2016, Langbank, SK. area. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

2007 NH BR780A round baler, \$16,800. Raymore New Holland 306-746-2911, visit us on-line: raymorenewholland.com

NEW HOLLAND 276 square hay baler, like new. Phone 306-595-4609, Pelly, SK.

2009 NH BR7090 round baler, \$27,000. Yorkton New Holland 306-783-8511, visit us on-line: yorktonnewholland.com

688 NH BALER, in good shape, new belts and bearings, always shedded, reasonably priced. 306-734-2970, 306-734-7335, Chamberlain, SK.

MOWER CONDITIONERS 4142



UNIVERSAL HAYBINE REVERSE A flip of a switch from your tractor seat saves time, money and ensures operator safety. Kits available for most makes and models. Duane 306-745-3801, Ken 306-745-3720, Estherazy, SK. www.qvcenterprises.com

MOWER CONDITIONERS 4142

HESSTON 1275 16' haybine. Cary Adacsi Farm Equipment Auction, Friday, August 5, 2016, Weyburn, SK. area. For sale bill and photos: www.mackauctioncompany.com 306-421-2928 or 306-487-7815, Mack Auction Co. PL 311962.

16' 5000 MACDON mower conditioner, good shape. 306-232-7751, Duck Lake, SK.

NH 495 12', completely rebuilt drive line, field ready, \$4500; Hesston 6450 21' SP 6 cyl. Chrysler, batt and PU reels, new knives last year, big floatation tires and weights, \$5200. 306-796-2178, Chaplin, SK.

LIKE NEW: 2005 SP HW325 16' haybine, 126 HP air ride, reverse header, shedded, 482 org. hrs., retiring, very clean, \$75,000. Must see to be appreciated! 306-825-2440 or 780-872-4661, Lloydminster, SK.

1996 NEW HOLLAND 1475 18' haybine, with 2200 header, \$12,000 OBO. 306-225-5720, Hague, SK.

RETIRING: 2015 MF 1386, 16' discbine with warranty, 500 acres, shedded, \$41,000. 403-599-3790, Milo, AB.

2010 GEGLMAN SA1820 sidearm, 1000 PTO output, clearance lights, good condition, \$11,900. Call 1-800-667-4515. www.combineworld.com

SWATHERS 4145

1986 IHC 4000, 24.5', w/UII PU reel and vine lifters, cab, AC, new front tires, good cond., \$4200. 306-342-4235, Glenbush, SK

2006 CIH WDX1202 w/36' draper header #W228168, 1057 hrs, \$63,000. 306-864-3667, Kinistino, SK. or www.farmworld.ca



FOR SALE OR TRADE: 25' swather header to fit 8110 Hesston, double swath, good cond., \$7500. 780-753-1787, Chauvin, AB.

2006 49521 PRAIRIE STAR w/MacDon 972 30' double swath, PU reel, \$55,000. 306-364-2185, Jansen, SK.

2005 9220 30' MF swather, 1000 hrs., double swath, excellent, \$55,000. Call 306-567-8614, Davidson, SK.

JD 2360 SP 25' swather with belly mount swath roller. Brian Cook Farm Equipment Auction, Sat., August 6, 2016, Langbank, SK. area. www.mackauctioncompany.com for sale bill and photos. Mack Auction Co. 306-421-2928, 306-487-7815. PL 311962.



2012 MACDON 155, 30' header, 559 hrs., AutoSteer, very good condition. 403-866-2775, Rolling Hills, AB.

2014 MACDON M155 w/35' draper header #W226534, 129 hrs, 35' D65 triple delivery header, \$161,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

2011 BERGEN 6200 FC swather transport, like new condition, \$12,000. Call 306-372-7653, Luseland, SK.

2010 CIH WD1203, only 448 hrs., exc. cond., 30', double knife drive, PU reel w/plastic teeth, free form mounted swath roller. Call 306-369-7724, 306-369-4164, Bruno, SK.

1997 CIH 6000 w/25' draper header #PN3020D, 3893 hrs, 25' shift header, \$15,000. 306-922-2525, Prince Albert, SK. or www.farmworld.ca

CASE/IH 8230 PT 30' swather, w/batt reels. Done very little work, new condition, always shedded, \$4500. 306-675-4883, 306-331-7456, Lipton, SK.

JD 590, PT, 30', batt reels, exc. cond., \$4500. **MF 9420, SP 30',** 989 hrs., sliding table, shedded, \$55,000 Retired. 306-493-7871, Harris, SK.

2013 MF 9725 w/30' draper header #N22068A, 17

COMBINE HEADERS 4199 MISC. ACCESSORIES 4205

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004 936D, new wobble box, extra knife, U reel, shedded, exc. cond., \$25,000. 06-867-7102, 306-243-4208 Macrorie, SK

012 AND 2009 JD 635F 35' flex headers, ood condition. Call 403-393-0219

60 MACDON, 25' double swath for bi-di wather or combine, newer cutting lades/guards and canvas, PU reel, \$7500. 80-853-2024, Vermilion, AB.

013 MACDON FD75 Flex draper 40', dbl K, ea auger, \$74,000; 2007 MacDon D60 35' 33,000. Both JD adaptors. 306-563-8482.

D 925 FLEX HEADER with PU reel. Brian ook Farm Equipment Auction, Saturday, ugust 6, 2016, Langbank, Sask. area. Visit www.mackauctioncompany.com for sale ill and photos. 306-421-2928 or 06-487-7815 Mack Auction Co. PL311962

010 HONEYBEE 36' draper, 2 pumps, dapter for JD, pea auger, PUR, field ready 36,500. 306-662-7116, Fox Valley, SK

010 CIH 2142 35', SKD, \$49,000; 2008 lacDon D60, 40', JD SP hookup, \$39,000. oth w/factory transport, hyd. Fore/Aft, ew canvases, only cut cereals, field ready. hone/text 306-435-7513, Moosomin, SK.

60 MACDON 30' straight cut header. rian Cook Farm Equip. Auction, Saturday, ugust 6, 2016, Langbank, Sask. area. Visit www.mackauctioncompany.com for sale ill and photos. 306-421-2928 or 06-487-7815 Mack Auction Co. PL311962

011 MACDON FD70 35' CNH, exc. ond., loaded, pea auger, gauge wheels, 59,000. 780-206-1234, Barrhead, AB.

ASE/IH 1010 straight cut header with PU el, 30' Case/IH 1010 straight cut header att reel, Case/IH 1015 header with Rake-p PU, 2- straight cut header transport ailers, 30' auger for Case/IH header. ary Adacsi Farm Equip. Auction, Friday, ugust 5, 2016, Weyburn, Sask. area. Visit www.mackauctioncompany.com for sale ill and photos. 306-421-2928 or 06-487-7815 Mack Auction Co. PL311962

OHN DEERE 930 draper c/w PU reel and ansport. No single point, very good cond 26,000. 780-679-7795, Camrose, AB.

EADER TRANSPORT, only used in yard, ke new, \$2500. Call 306-867-7102 or 06-243-4208, Macrorie, SK.

010 MACDON FD70, 35' header w/JD 70 eries adapter, exc. cond., field ready. 06-861-2013, 306-456-2749, Oungre, SK.

D 930 RIGID header, 30', PU reels, exc. ond., always shedded, mover included, 13,500. 306-743-2989, Langenburg, SK.

998 MD 962 30' single knife drive, pea uger, factory transport, fore&aft. For lassey 9000 series, nice cond, \$14,800 -800-667-4515, www.combineworld.com

000 JD 936D with pickup reel and single oint, nice condition, \$18,500 OBO. 06-725-4286, Bulyea, SK.

013 JD 640D, like new, with only 2000 cres, pea auger, no transport, \$59,000; 004 635 Flex, \$20,000; 2005 635 Flex, air el, \$24,000. 306-948-7223, Biggar, SK.

COMBINE PICKUPS 4202

IEW MACDON PW8's for CNH, New lacDon PW8 pickup header, \$29,800. rades wanted! 1-800-667-4515. www.combineworld.com

BELT VICTORY PU with hydraulic drive otor, good shape. Call 306-944-4325, 06-231-8355, Bruno, SK.

008 MACDON PW7 16' PU header, exc. ondition, for STS combines with 16' wathmaster, \$19,800. 1-800-667-4515. www.combineworld.com

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WATHMASTER AND RAKE-UP 12', 14', nd 16' pickups available. Call for details! -800-667-4515. www.combineworld.com

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RECONDITIONED COMBINE HEADERS. RIGID and flex, most makes and sizes; also header transports. Ed Lorenz, 306-344-4811, Paradise Hill, SK. or web-site: www.straightcutheaders.com

PEA AUGER off a MacDon 30' header for sale, \$1500. Call Randy 403-533-2240, Rockyford, AB.

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G.S. TRACTOR SALVAGE, JD tractors only. Call 306-497-3535, Blaine Lake, SK.

AGRA PARTS PLUS, parting older tractors, tillage, seeding, haying, along w/other Ag equipment. 3 miles NW of Battleford, SK. off #16 Hwy. Ph: 306-445-6769.

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LOEFFELHOLZ TRACTOR AND COMBINE Salvage, Cudworth, SK., 306-256-7107. We sell new, used and remanufactured parts for most farm tractors and combines.

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ROCKPICKERS 4223

1985 ROCK-O-MATIC Model 58 high lift rockpicker, hyd. drive vg cond., \$5000 OBO. 306-648-7766, Gravelbourg, SK.

SILAGE EQUIPMENT 4229

FOR SALE: 1994 NH 2205 FORAGE harvester, with 6-row Claas corn head and 3 meter PU, good shape, \$30,000; **Wanted:** Forage harvester with corn head under \$200,000. Call 403-362-1841, Brooks, AB.

2004 IHC 7400, new 20' B&H with silage gate, rebuilt motor, \$69,900. Call **K&L Equipment**, 306-795-7779, Ituna, SK. ladimer@sasktel.net DL #910885.

REDUCED

2008 JD 3975 c/w PU header, kernel processor, 40" vert. ext. Just through shop in excellent shape w/new knives and shear bar! \$19,500. Call Jordan 403-627-9300, Pincher Creek, AB.

1994 NH 900 forage harvester, always shedded, \$5000; Jiffy 600 hi-dump silage wagon, \$3000 306-837-7818 Loon Lake SK

1990 NH 790 forage harvester, no metal alert, electric controls, cutting parts exc., exc. cond., w/14' Richardson high dump, \$5500. Call 306-744-7955, Saltcoats, SK.

SPRAYING EQUIPMENT

PT SPRAYERS 4238

FLEXI-COIL 50, 1000 PTO, 500 gal. tank, 72', \$1200. 306-567-3128, Bladworth, SK.

2007 ROGATOR 874, 8900 gal. 100', \$99,000. Yorkton New Holland 306-783-8511, yorktonnewholland.com

2002 SPRAY-AIR 3400 90' PT, 800 gal., air assist/ standard spray, AutoBoom, good condition, w/monitor, \$9,980. 1-800-667-4515. www.combineworld.com

SP SPRAYERS 4241

2003 SPRA-COUPÉ 4640 High Clearance sprayer, 80' boom, 600 hrs., \$65,000. A.E. Chicoine Farm Equipment, 306-449-2255, Storthoaks, SK.

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2013 JD 4940, 120' high clearance, 1266 hrs., 1200 gal. SS tank, 5 nozzle bodies, rinse tank, SF1 activation, Starfire SF3000, AutoSteer, hydraulic axle adj., tires: 900/50R45, air susp., 11 section boom, chem eductor tank, wheel fenders, wheel slip control, exc. cond., asking \$250,000. Located in Andrew, AB. Call 780-365-2020.

2015 CASE/IH 4440, 120', Luxury cab, Active susp, 710 Floaters and 380/90R4, STK: 019629, \$480,000. 1-888-639-3431, Prince Albert. www.redheadequipment.ca

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SALVAGE 4214

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2015 CASE/IH 4440, 120', AIM, Auto-Boom, AccuBoom, Pro 700 monitor, STK: 019304, \$394,500. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

2007 SPRA-COUPÉ 4655 80', 1080 hrs, 400 gal., mechanical drive, AutoSteer, with JD 1800 monitor, \$57,900. 1-800-667-4515. www.combineworld.com

2012 JD 4940, 120', 1200 gal. SS tank, AutoSteer, STK: 021159, \$325,000. www.redheadequipment.ca Melfort, SK. 1-888-409-8769.

2002 JD 4710, 90', 800 gal. SS, crop dividers, 380/90R46 tires, duals for rear, AutoSteer, AutoHeight, chem eductor. Call 306-357-4732, 306-831-8548, Wiseton, SK

2005 APACHE AS850, 90', 380/38 front, 320/46 rear, chem inductor, Outback S3 STK: 014684, \$119,000. 1-888-492-8542, Lloydminster. www.redheadequipment.ca

1998 JOHN DEERE high clearance sprayer, 90', 2850 hrs., 750 gal. SS tank, sectional controls, 3-way nozzles, foam markers, stored inside, \$55,000. Call 306-842-3798 or 306-861-4020, Weyburn, SK.

1998 CASE/IH SPX3185, 90', 2 sets of tires, Stk: 017817, \$79,000. Saskatoon, SK 888-788-8007. www.redheadequipment.ca

2009 CASE/IH 4420, 100', AIM, 1200 gal, Norac Boom Height, STK: 020576 \$199,500. www.redheadequipment.ca or 1-888-365-2681, Estevan, SK.

2010 JD 4830, 100', SS 1000 gal. tank, 2 sets tires, STK: 016381, \$208,000. 1-888-492-8542, Lloydminster, SK. www.redheadequipment.ca

2015 CASE/IH 4440, 120', Luxury cab, Active susp., 380's and 710's, STK: 019628, \$480,000. 1-888-788-8007, Saskatoon, SK. www.redheadequipment.ca

2012 JD 4940, 120', 1200 gal., Boom Trac Pro 5, leveling, STK# 020967, \$297,000. 1-888-576-5561, Swift Current, SK. www.redheadequipment.ca

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JD 9400, 9420, 9520, 8970

JD 9860, 9760, 9750, 9650, 9600

JD 9430, 9530, 9630

Case STX 375, 425, 430, 450, 480, 500, 530

CIH 8010-2388, 2188 combine

CIH 4350, 5350, 4500, 5500, 6000 pto avail.

JD 4710, 4720, 4730, 4830, 4920, 4930 SP sprayers

JD 9770 & 9870 w/CM & duals

CIH 3185, 3230, 3330, 4430, 4420 sprayers

\$670/680/690 JD Combine low hrs

4730 JD Sprayer, 100 ft.

854 Rogator SP Sprayer, complete with JD auto steer, swath pro

Special 450 CIH Quadtrac with big pump

554 Rogator Sprayer SP

4840 JD 2WD, low hours, new tires

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FLOATER TIRES: Factory rims and tires: JD 4930/4940, R4045; 800/55R46 Goodyear tire and rim, \$20,500/set; 710/60R46 Goodyear LSW, \$19,500/set; Case 650/65R38 Michelin's, \$13,500. 306-697-2856, Grenfell, SK.

FLOATER TIRES: Four 24.5x32 fits Rogator 1254, \$5000; Four 20.8x42 fits Case/IH, \$6000. 306-922-8155, Prince Albert, SK.

TRIDEKON CROP SAVER, crop dividers. Reduce trampling losses by 80% to 90%. Call: Great West Agro, 306-398-8000.

SPRAYER TIRES: 3 good used 320/90R46 \$1000 each. 306-268-7550, Bengough, SK.

TILLAGE/SEEDING

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REAR HITCH off Bourgault 3195 air tank for sale, \$500. Randy 403-533-2240, Rockyford, AB.

2007 JD 1910, 430 bu. air tank, 8 run, double shoot, 12" conveyor, TBH, \$39,800. 1-800-667-4515. www.combineworld.com

2007 JD 1830 61', double shoot, paired row openers, 10" spacing, 4" steel packers, blockage monitor, \$33,800. Call 1-800-667-4515. www.combineworld.com

2010 IH PH800/3430, 70', 430 bu., 8 run, double shoot, ready to go w/monitor, \$59,800. Call 1-800-667-4515 or view www.combineworld.com

42' BOURGAULT 5710 double shoot air drill with Bourgault 4300 air cart. Cary Adacsi Farm Equipment Auction, Friday, August 5, 2016, Weyburn, Sask. area. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

BOURGAULT 5710, 40', 12.5" spacing, mid-row shank fert. run, 5" rubber packers, c/w Bourgault 4350 air tank, dual fans, 3 tanks with cameras, \$45,000. Retired. 780-679-6314, Daysland, AB.

2012 MORRIS CONTOUR II 61' air drill, 12" spacing, w/8650 XL air cart with duals, var. rate, Eston special fertilizer broadcast kit, Bourgault tillage tool, 3/4" Eagle Beak knives. Phone Gerald at 306-379-4530 or Nathan at 306-831-9246, Fiske, SK.

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AIR SEEDERS 4253

32' BOURGAULT 8800 seeding tool with Bourgault 2155 and 3225 tow behind cart. Brian Cook Farm Equip. Auction, Saturday, August 6, 2016, Langbank, Sask. area. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

HARROWS /PACKERS 4256

DEGELMAN HEAVY HARROWS 70', 2008 and 2001, one owner(s), \$28,000 and \$26,000. Phone 306-563-8482.

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50' MORRIS FIELD PRO heavy harrow. Brian Cook Farm Equip. Auction, Saturday, August 6, 2016, Langbank, Sask. area. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

2009 DEGELMAN SM7000, 70' heavy harrow, hyd. tine adjust, 5/8" tines, good condition, \$29,900. 1-800-667-4515. www.combineworld.com

SEEDING VARIOUS 4259

1998 JD 1900, 350 bu. 6 run, double shoot, TBH, 8" auger, clean unit, \$29,800. 1-800-667-4515. www.combineworld.com

TILLAGE EQUIPMENT 4262

2013 LEMKEN RUBIN 9/400 like new, 13', 3 PTH, baskets, less than 1000 acres use, \$29,800. Call 1-800-667-4515 or view at www.combineworld.com

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JD 9400, 9420, 9520, 8970

JD 9860, 9760, 9750, 9650, 9600

JD 9430, 9530, 9630

Case STX 375, 425, 430, 450, 480, 500, 530

CIH 8010-2388, 2188 combine

CIH 4350, 5350, 4500, 5500, 6000 pto avail.

JD 4710, 4720, 4730, 4830, 4920, 4930 SP sprayers

JD 9770 & 9870 w/CM & duals

CIH 3185, 3230, 3330, 4430, 4420 sprayers

\$670/680/690 JD Combine low hrs

4730 JD Sprayer, 100 ft.

854 Rogator SP Sprayer, complete with JD auto steer, swath pro

Special 450 CIH Quadtrac with big pump

554 Rogator Sprayer SP

4840 JD 2WD, low hours, new tires

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2004 AGCO RT120, 750 HRS, 4 WD, CVT, front axle susp., ALO Q65 FEL, 8' bucket, bale and pallet forks, asking \$98,995. 780-554-4736, 780-739-8084, Leduc, AB.

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8- TWO YEAR old purebred Black Angus bulls. Pedigrees from Merit Cattle Co. herd. Semen tested, excellent feet, injected with Foot Rot vaccine, quiet, ready to work. Call Steven at 306-360-7894, Herb 306-360-7465, Drake, SK.

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

MIDNITE OIL CATTLE CO. has on offer semen tested yearling and 2 year old bulls. 306-734-2850, 306-734-7675, Craik, SK.

BLACK ANGUS BULLS, 2 year old, sired by Tex 848W, Old Post AA, semen tested. Delivery available. Info. call 306-861-1999 or 306-457-7534, Stoughton, SK.

RED ANGUS 5015

85 YEARLING RED ANGUS bulls. Guaranteed, semen tested, and delivered. Call Bob Jensen, 306-967-2770, Leader, SK.

RED ANGUS 2 yr. old bulls. Good selection of calving ease, performance and maternal genetics. Delivery available. Nordan Angus, Rob Garner, 306-946-7946, Simpson, SK.

REG. RED ANGUS BULLS: calving ease, quiet, good growth, will be semen tested. Little de Ranch, 306-845-2406, Turtleford

GOOD BULLS at good prices. Semen tested and delivered. EKW Red Angus, Elmer Wiebe, 306-381-3691, Hague, SK.

2 YEAR OLD and yearling Red Angus bulls, semen tested and delivered. Call Guy Sampson, Davidson, SK., 306-567-4207, 306-561-7665.

RED ANGUS BULLS on moderate growing ration, performance information available. Valleyhills Angus, Glaslyn, SK. 306-342-4407 www.valleyhillsangus.com

SOUTH VIEW RANCH has Red and Black Angus Bulls-yearling and 2 yr. old. Semen tested, performance records. Ceylon, SK. Shane 306-869-8074, Keith 306-454-2730.

30 REGISTERED RED ANGUS BULLS

Quiet, Easy Calving, Low to Moderate Birth Weights, Good Growth, E.P.D.'s available Guaranteed Breeders (Vet Checked & Semen Tested). Excellent Bulls for Heifers or Cows. Cleveley Cattle Company (780)689-2754.

HIGH QUALITY YEARLING bulls from AI program. Performance tested and carefully developed. Semen tested and delivery available. Call KC Cattle Co. 306-290-8431, Saskatoon, SK. www.kccattleco.com

QUIET TOP QUALITY 2 yr. old and yearling Purebred Red Angus bulls. Contact Spruce Acres, 306-272-3997, Foam Lake, SK.

COMPLETE DISPERSAL OF frozen genetics for top end genetics, Millet, AB. Semen and embryos from high profile Red and Black Angus bulls. For list: 780-216-0220.

RED ANGUS BULLS, two year olds, semen tested, guaranteed breeders. Delivery available. 306-287-3900, 306-287-8006, Englefeld, SK. www.skinnerfarms.ca

GOOD SELECTION OF Red and Black Angus yearling and 2 yr. old bulls, birthweight range 70-90 lbs., developed on oats and hay, semen tested and delivery available. Triple H Red Angus 306-723-4832, 306-726-7671, Cupar, SK.

CHAROLAIS 5055

POLLED PUREBRED COMING 2 year old Charolais bulls, Red Factor and white. Easy calving. Call Kings Polled Charolais, 306-435-7116, Rocanville, SK.

POLLED YEARLING BULLS

sired by low birthweight bulls. Two white, one brown. 306-931-8069 leave msg, Saskatoon, SK.

YEARLING AND 2 YEAR old Charolais bulls, tan and white. Call Ervin Zayak, Creedence Charolais Ranch, Derwent, AB., 780-741-3868, 780-853-0708.

QUIET POLLED YEARLING CHAROLAIS bulls. Will semen test and deliver. Call Bar H Charolais, Kevin Haylock, 306-697-2901 or 306-697-8771, Grenfell, SK.

REG. PB 2 year old Charolais bulls, polled, White, easy calving bloodlines, very quiet, semen test and delivered. Call Quallman Charolais, 306-492-4634, Dundurn, SK.

6- TWO YEAR OLDS and 35 yearling bulls, polled, horned and red factor, semen tested, guaranteed, delivered. Call Prairie Gold Charolais, 306-882-4081, Rosetown, SK.

GELBVIEW 5075

WINDERS GELBVIEW selling by private treaty, reg. 2 yr old and yearling Gelbvieh bulls from our 38 year breeding program. Also, purebred heifers. 780-672-9950 Camrose, AB. gwindar@syban.net

HEREFORD 5090

HORNED HEREFORD 2 yr. old and yearling bulls, performance tested. T Bar K Ranch, Kevin Dorrance 306-577-9861, Wawota SK

YEARLING AND 2 year old polled Hereford

bulls. avail. Excellent selection, properly developed, fully guaranteed. Deposit holds til needed. Will deliver. Brian Longworth, 306-656-4542, 306-831-9856, Harris, SK.

HOLSTEIN 5100

FRESH AND SPRINGING heifers for sale. Cows and quota needed. We buy all classes of slaughter cattle-beef and dairy. R&F Livestock Inc. Bryce Fisher, Warman, SK. Phone 306-239-2298, cell 306-221-2620.

LIMOUSIN 5115

BLACK AND RED, 2 yr. old, polled Limousin bulls. Calving ease and performance genetics. Delivery available. Nordan Limousin, Rob Garner, 306-946-7946, Simpson, SK.

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 Low-line, embryos, semen. Black/Red carrier. Darrell 780-486-7553, Edmonton, AB.

SPRINGER LIMOUSIN,

Foam Lake, SK, offers good black and red yearling bulls. For more info. call Merv at 306-272-4817 or 306-272-0144.

BLACK AND RED, 2 yr. old, polled Limousin

bulls. Calving ease and performance genetics. Delivery available. Nordan Limousin, Rob Garner, 306-946-7946, Simpson, SK.

BLACK YEARLING SIMMENTAL

bulls, semen tested, ready to go. Phone Bill or Virginia Peters, 306-237-9506, Perdue, SK.

BLACK SIMMENTAL BULLS,

yearling and one 2 year old. AI sired or sired top herd bulls. Vet inspected and semen checked. Polled with dispositions second to none. Developed fully with longevity in mind. Call 306-231-9758, Humboldt, SK.

PROVEN CALVING EASE,

two year old Simmental bull. Also Red yearling Simmental bulls, low bw. Crocus Simmentals, 306-773-7122, Swift Current, SK.

TEXAS LONGHORN 5225

ALBERTA TEXAS LONGHORN Association 780-387-4874, Leduc, AB. For more info. www.albertatexaslonghorn.com

WELSH BLACK 5235

WELSH BLACK- The Brood Cow Advantage. Check www.canadianwelshblackcattle.com Canadian Welsh Black Soc. 403-442-4372.

CATTLE VARIOUS 5240

REG. RED ANGUS yearling and 2 year old bulls. Low birthweights, gentle and grown slowly. 2 yearling polled Simm/Red Angus F1 bulls. Roger 306-221-1558, Minton, SK.

40 RED AND 80 Black big 1350 lbs. heifers with calves for sale. Call 306-773-1049 or 306-741-6513, Swift Current, SK.

HORSES

AUCTION SALES 5305

SASKATOON ALL BREED Horse & Tack

Sale, August 23. Tack 11:00 AM, Horses to follow. Open to broke horses (halter or riding). Sale conducted at OK Corral, Martensville, SK. To consign call Frederick, 306-227-9505 bodnarusauctioneering.com

QUARTER HORSE 5415

BUCKSKIN TEAM of quarter horses, mare 4 and gelding 7, well matched and well started, \$4000. Wagons and harness available. 780-363-2216, Chipman, AB.

HORSE EVENTS/ SEMINARS 5467

FINDLATER RANCH RODEO, August 6, 2016. 10 team limit. Entry deadline July 18th. Call Vance 306-731-7646, Findlater, SK. Visit: www.findlateranchrodeo.com

HARNESS/VEHICLES 5470

HORSE COLLARS, all sizes, steel and aluminum horseshoes. We ship anywhere. Keddie's, 1-800-390-6924 or keddies.com

2 SEATER SURREY, frill top, parade ready; Original McLaughlin buggy; Complete set of team harness for 12-14 lb. horses. Call 306-745-7505, Dubuc, SK.

SHEEP 5590

SUNGOLD SPECIALTY MEATS. We want your lambs. Have you got finished (fat) lambs or feeder lambs for sale? Call Rick at: 403-894-9449 or Cathy at: 1-800-363-6602 for terms and pricing. www.sungoldmeats.com

REGISTERED YEARLING RAMS

North Country Cheviot and Suffolk rams. Good bloodline, Must sell. Asking \$500 each. 306-648-3568, Gravelbourg, SK.

SHEEP SERVICE/ SUPPLIES 5598

SASK. SHEEP DEV. BOARD sole distributor of sheep ID tags in Sask., offers programs, marketing services and sheep/goat supplies. 306-933-5200, Saskatoon, SK. www.sksheep.com

SWINE 5670

BUY ALL: Pigs/swine/wild boar, raised outside, all sizes. Most \$. 1-877-226-1395. www.canadianheritagemeat.com

SPECIALTY

ALPACAS 5753

GOOD QUALITY ALPACAS for sale. Call for packages 306-397-2993, Edam, SK. Please visit www.tigerlilyranch.ca

ELK 5760

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REAL ESTATE

S.C. PROPERTIES

6110

WHY USE STORAGE? Buy my 9700 sq. ft. eed lot then fly into Canadian Rockies ntl. Airport (YXC). Create a tree-house, arden, workshop, enjoy relaxation, hiking, shing, BBQ, water sports, off-road fun. ary 403-479-8915 or gsauter1@yahoo.ca

OR SALE BY OWNER: 55+ community, eautiful 1192 sq.ft. townhouse. 2 bdrm, 2 ath, new floors, vaulted ceilings, new indows, covered patio by stream, 1 car arage, rv parking available, swimming ool, clubhouse, low strata fees, Vernon, C. Call 236-426-0100 or 250-547-0090

COTTAGE/LOTS

6125

OTS AND CABINS FOR SALE at Sun hills Resort, Lake of the Prairies, 40 min. ast of Yorkton, SK. Phone 306-597-9999 r visit www.sunhillsresort.com

UILDING LOT, ELBOW, SK for sale. Lot , Blk 2, Plan 88MJ16836, 125 Putters ane. One block from golf course. 24.5 feter frontage. Serviced by town. Will onsider trade of RV, boat, truck, car, etc. 34,500. Call Gerry 403-389-4858.

AKE DAUPHIN, MB: serviced flood-roof waterfront lots, from \$44,900. See: Old Town Harbour* on Regina kijiji and/or icebook. Call us for a brochure, prices nd information at 204-761-6165.

HOUSES/LOTS

6126

OG POST AND BEAM shell package for ale. 26'x34' with loft 1220 sq. ft. total. ouglas fir logs. Call 306-222-6558 cell, mail jeff@backcountryloghomes.ca r visit www.backcountryloghomes.ca

ARM HOUSE, 2 storey, 17x37', to be oved off location. 3 bdrms, white vinyl ing, red asphalt shingles, PVC windows, ater softener and heater, 2 pressure umps, sewer pump, window AC, 200 amp anel, baseboard heaters w/thermostat in ach room. Offers. Brian 306-631-8247, cated 14 miles SE of Moose Jaw, SK.

MOBILE HOMES

6127

EDALLION HOMES 1-800-249-3969 mmediate delivery: New 16' and 20' odular homes; Also used 14' and 16' omes. **Now available: Lake homes.** ledallion Homes, 306-764-2121, Prince lbert, SK.

READY TO MOVE

6128

TM SHOW HOMES, awesome quality nd beauty! www.swansonbuilders.ca r phone 306-493-7027, Saskatoon, SK.

TMS AND SITE build homes. Call -866-933-9595, or go online for pictures nd pricing at: www.warmanhomes.ca

FARMS & RANCHES

ILBERTA

6132

OR LEASE: 7402 cultivated acres south f Chinook, AB., for the 2017- beyond. ardsite and bins are currently for sale. reference given to whomever will pur- ase yard, bins, 40 acres. Visual tours lease contact Ira Ross at 403-854-0572 r Tracey Grantham 403-854-1583. Inquir- as and questions please contact Ken at 06-230-3586. Tender closes July 31, 016. Please submit tender to: beatch@sasktel.net

SASKATCHEWAN

6133

G AND RECREATIONAL land for sale. All ffers considered, but not necessarily ac- epted. For more info view www.agrec.ca

UARTER SECTION LAND with potential r **gravel excavation**. NE-05-32-12 W2, 1 RM of Foam Lake. Call 306-272-3582.

5 ACRES w/LARGE character home, plus nd home on property within 35 miles of egina or Weyburn on Hwy. #35; 160 res w/large home, 3 car heated garage, rge shop, horse barn, plenty of water, 20 in. NE of Regina. Beside Regina, SK. 3 cre property/house/greenhouses; Near ilot Butte, 80 acre development land; 0+ acres, Hwy. #11, 7 miles North of askatoon, development; RM Perdue, 2 uarters W. of Saskatoon on Hwy #14; 2 iles East of Balgonie Hwy. #1, 145 ace development land. Brian Tiefenbach 06-536-3269, Colliers Int., Regina, SK. www.collierscanada.com

SASKATCHEWAN

6133

RM OF CANWOOD #494: What a pas- ture!! 1202 acres all in a block, except for a road allowance, which helps for rotational grazing. Approx. 660 acres in tame hay, balance is bush and natural pasture. Little Shell River runs through most of this pas- ture, plus 2 dugouts and a quantity of spruce timber. For more info. or viewing on MLS®574209 contact Lloyd Ledinski, Re/Max® of the Battlefords, 1391 - 100th Street, North Battleford, SK. 306-446-8800 or 306-441-0512.

AUCTION SALE FOR Estate of Sophia Liss, Rose Valley, SK., Sunday, August 21/16, 9:30 AM. Includes 2 quarters land, buildings, machinery, household and antiques. RM #367 Ponass Lake. View: www.ukrainetzauction.com PL 915851.

154 ACRES, fenced, good for horses and cattle. Barn, house 1700 sq. ft., well water, good road. 306-253-4501, 306-222-2448. Aberdeen, SK.

WANTED

GRAIN LAND TO RENT, 35 mile radius of Rouleau, SK. Call 306-776-2600 or email: kraussacres@sasktel.net

SUTTON GROUP - NORLAND REALTY. Recent sale: **SOLD!** RM of St. Louis, 160 acres, \$272,000. Farmland for sale: RM of Colonsay, 432 acres, \$229,000; RM of Aberdeen, 300 acres, \$400,000; RM Craik, 720 acres, \$1,000,000; RM of Dundurn, 458 acres, \$890,000. Development Potent- ial: **SOLD!** RM of Aberdeen, 158 acres, \$550,000; RM of Corman Park, 3 parcels, 480 acres. James Hunter, 306-716-0750, Saskatoon, SK. sasklandhunter.com

RM ELMSTHORPE #100- 479 acres with 407 cult., SW of Avonlee. Assessment 174,400, Asking \$365,000. Keith Bartlett, 306-535-5707, Sutton Group Results Real- ty, Regina, SK.

RM HILLSDALE, Sask. Half section farm land, 280 cult. acres. W1/2-16-45-23-W3. Assessment 159,600, price reduced \$320,000. 780-871-1821, Lloydminster AB

FARMLAND NE SK(Clemenceau) 4 quarters plus 36 acre riverside parcel w/5 bdrm. home. Featuring: bins on concrete with direct hit on railroad cars, 40 acres of mostly mature spruce timber, 2 farmyards- 1 bordering Etomami River and 50 miles of provincial forest, excellent elk hunting and other big game and goose. 580 acres cult. Full line of farm equipment and sawmill also available Reg Hertz, 306-865-7469.

PASTURES

6136

MULCHING- TREES, BRUSH, Stumps. Call today 306-933-2950. Visit us at: www.maverickconstruction.ca

ACREAGES

6139

FAMILY HOME ON 5 acres, workshop, garden, fruit trees, in Salmon Arm, BC. Asking \$549,000. More info call 250-833-0515.

RM EDENWOLD, Balgonie, SK. acreage, 54.6 acres, located 3 kms SW, listed below appraised value. 3205 plus sq. ft. house, heated triple garage, 3 bdrm, 4 bthrm, and two large family areas. 32x96 shop with potential for stable use, approx. 50 acres Alfalfa, great potential for horses! MLS® #564925. Call/text **Anthony Polley,** 306-535-6016, Royal LePage Regina Real- ty. All listings: www.anthony.rlp-regina.ca

RECREATIONAL VEHICLES

ALL TERRAIN VEHICLES

6161

JD GATOR 550, 4x4, new condition, \$8900. Call Pro Ag Sales, 306-441-2030, North Battleford, SK.

WANTED FOR PARTS: 1982 Honda Big Red 200E, three wheeler. Running if pos- sible. Call 403-318-8135, Delburne, AB.

2012 YAMAHA 450 quad, mint condition, 805 kms., lots of extra's (winch, tires, etc.) \$5500 OBO. 306-529-0390, Regina, SK.

CAMPERS/TRAILERS

6164

1998 FRONTIER PLAINSMAN 5th wheel, 24', rear kitchen, AC, awning, vg cond., have hitch. Call 306-843-7696, Wilkie, SK.

2003 TITANIUM 32' 5th wheel camper w/slide & rear kitchen. Warner Operating Equipment Auction, Sunday, August 7, 2016, at 12 Noon, Kipling, Sask. Visit www.mackauctioncompany.com for sale bill and photos. 306-421-2928 or 306-487-7815 Mack Auction Co. PL311962

CAMPERS/TRAILERS

6164

1996 MALLARD 26' 5th wheel, fully loaded, used very little, shedded, mint shape, \$7000. Call 306-549-4701, Hafford, SK.

MOTOR HOMES

6166

1995 TRIPLE E CLASS A 31', fully loaded, 56,000 kms, driven by senior, exc. cond. \$29,900. 306-233-7889, Cudworth, SK.



M37 VENETIAN DIESEL pusher. Absolutely beautiful! **\$10,000 factory rebate,** ends July 31st, \$286,000. Stock #5021. AMVIC Lic. Dlr. Call 1-866-346-3148 or shop on- line 24/7 at: Allandale.com



1997 SHASTA CLASS C, 28', 7.3 power- stroke diesel, auto, 82,000 kms, \$21,000. Can-Am Truck Export Ltd, 1-800-938-3323, Delisle, SK. DL #910420.

RENTAL/ACCOMODATIONS

APARTMENTS/HOUSES

6210

WANTED FARM COUPLE to spend winter (Nov-March) in our well equipped beautiful home in Saskatoon, SK. References re- quired. Call 306-374-9204.

SCALES

6380

ELIAS SCALES MFG., several different ways to weigh bales and livestock; Plat- form scales for industrial use as well, non- electric, no balances or cables (no weigh like it). Shipping arranged. 306-445-2111, North Battleford, SK. www.eliascales.com

PEDIGREED SEED

NOTICE TO SEED ADVERTISERS

The Seeds Regulations prohibit the advertisement or sale of common seed of the major crop kinds by variety name. A variety name may only be applied to pedigreed seed that has been grown, processed, sampled, tested and graded as set out in the Seeds Regulations. Furthermore, seed of unregistered varieties of the crop kinds subject to variety registration may not be sold in Canada even when labelled as common seed.

For more information contact the Canadian Food Inspection Agency. Seed Section at: seedsemence@inspection.gc.ca or phone 1-800-442-2342

CEREAL SEEDS

RYE

6413

CERTIFIED PRIMA FALL RYE. Hickseed Ltd., Mossbank, SK., Barry 306-354-7998 or Dale 306-229-9517.

WHEAT

6419

CERT. AC EMERSON winter wheat, rated R to fusarium, good winter survival. Call **Fedoruk Seeds,** Kamsack, SK., 306-542-4235. www.fedorukseeds.com

CERTIFIED CDC UTMOST, high germ., low disease. Discount for large orders. Call Jeff, Sopatyk Seed Farms, 306-227-7867, Aberdeen, SK. Email: jeffsopatyk@me.com

CERTIFIED MOATS, 98% germ, 89% vigor, 0% fus. gram. Ready for immediate pick up. Call Myles at Fox Family Farm 306-648-8337, Gravelbourg, SK. Visit us on-line: www.foxfamilyfarm.ca

CERTIFIED #1 CDC MOATS winter wheat. Hickseed Ltd., Mossbank, SK., Barry 306-354-7998 or Dale 306-229-9517.

FORAGE SEEDS

ALFALFA

6425

TOP QUALITY CERTIFIED alfalfa and grass seed. Call Gary or Janice Waterhouse 306-874-5684, Naicam, SK.

SPECIALTY CROPS

MUSTARD

6467

MUSTARD SEED! We can supply you with new cert. treated or untreated seed. We can upgrade your low grade mustard. Ackerman Ag Services, 306-638-2282, Chamberlain, SK.

COMMON SEED

FORAGE SEEDS

6485

TOP QUALITY ALFALFA, variety of grasses and custom blends, farmer to farmer. Gary Waterhouse 306-874-5684, Naicam, SK.

OILSEEDS

6491

LOOKING FOR OLD and new crop soybeans FOB Western Canada. Licence and bonded grain company. Call, email, text **Now** for competitive pricing at the farm! Market Place Commodities Ltd, accurate real time marketing. 403-394-1711; 403-315-3930 text, info@marketplacecommodities.com

VARIOUS

6497

NOW Available

COVER CROPS. HICKSEED LTD., Mossbank, SK. Now has on the floor for **organic plowdown:** Daikon radish (zero till); Hairly Vetch; Austrian Winter peas; Buckwheat; Yellow Blossom sweet clover. Also, green feed blends available. For all your seed needs call Hickseed Ltd. Barry 306-354-7998 or Dale 306-229-9517

FEED MISCELLANEOUS

FEED GRAIN

6505

ATTENTION

WANTED HEATED CANOLA. No broker involved. Sell direct to crushing plant. Cash on delivery or pickup. 306-228-7306 or 306-228-7325, Unity, SK.

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.

LACKAWANNA PRODUCTS CORP. Buyers and sellers of all types of feed grain and grain by-products. Call 306-862-2723, Nipawin, SK.

WANTED: FEED GRAIN, barley, wheat, peas, green or damaged canola. Phone Gary 306-823-4493, Nilenburg, SK.

WHY NOT KEEP MARKETING SIMPLE? You are selling feed grains. We are buying feed grains. 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. Email info@marketplacecommodities.com or phone 1-866-512-1711.

WANT TO BUY all grades of oats and feed barley and wheat. Mail samples to: Green Prairie, RR 8, Site 30, Comp 11, Lethbridge, AB. T1J 4P4. Call 1-877-667-3993.

PASKAL CATTLE in Iron Springs area is looking for **Feed Barley.** Put more \$\$\$ in your pocket and sell direct to us with no brokerage fee. Please call 403-317-1365.

WANTED: FEED BARLEY Buffalo Plains Cattle Company is looking to purchase barley. For pricing and delivery dates, call Kristen 306-624-2381, Bethune, SK.

HAY/STRAW

6510

DAIRY AND FEEDER HAY, 3x4 square bales for sale. Tests available. Call 403-633-8835, Brooks, AB.

HAY AND GREENFEED WANTED: large and small quantity. Call 403-625-4658, Claresholm, AB.

ROUND ALFALFA/ALFALFA GRASS solid core 5x6 JD hay bales for sale. Call 306-237-4582, Perdue, SK.

WANTED: 700 big round or big square alfalfa bales. Will pick up. Call 306-750-9960, Swift Current, SK.

CANOLA GREEN FEED, good quality, **56% TDN, 11.5"** protein, sulfur free, asking \$50/ton. Call 306-834-8100, Major, SK.

ALFALFA BALES for sale, 3x4 squares. Feed tests available. Phone 403-501-4115 or 403-501-9307, Tilley, AB.

HAY/STRAW

6510

HAY AND STRAW Delivered Anywhere: **Now loading and hauling 48 large round bales.** Also hauling 90 large square (3 wide in SK. and AB.) Phone or text Hay Vern 204-729-7297, Brandon, MB.

ROUND BALE PICKING and hauling, small or large loads. Travel anywhere. Also hay for sale. 306-382-0785, Vanscoy, SK.

LONG LAKE TRUCKING, two units, custom hay hauling. Call 306-567-7100, Imperial, SK.

LARGE SQUARE BALES of straw 3x4x8, barley or wheat, \$50/tonne or \$22/bale. Delivery available. Also taking orders for fall 2016. Discounts on all orders over 500 bales. Call 403-994-0533, Didsbury, AB.

FEED WANTED

6540

BOW VALLEY TRADING LTD.

WE BUY DAMAGED GRAIN

Wheat, Barley, Oats, Peas, etc. Green or Heated Canola/Flax

1-877-641-2798

Stretch your advertising dollars! Place an ad in the classifieds. Our friendly staff is waiting for your call. 1-800-665-1362.

BUYING: HEATED CANOLA & FLAX

• Competitive Prices

• Prompt Movement

• Spring Thrashed

WESTCAN FEED & GRAIN

"ON FARM PICK UP" 1-877-250-5252

SEED WANTED

6542

BUYING HEATED/DAMAGED PEAS, FLAX & GRAIN "On Farm Pickup". Westcan Feed & Grain, 1-877-250-5252.

BUYING SPRING THRASHED CANOLA and grain "On Farm Pickup" Westcan Feed & Grain, 1-877-250-5252.

FEED GRAIN WANTED! ALSO buying light, tough or offgrade grains. "On Farm Pickup" Westcan Feed & Grain, 1-877-250-5252.

Go public with an ad in the Alberta Farmer Express classifieds. Phone 1-800-665-1362.

TANKS

6925

POLY TANKS: 15 to 10,000 gal.; Bladder tanks from 220 to 88,000 gallon; Water and liquid fertilizer; Fuel tanks, single and double wall; Truck and storage, gas or dsf. Wilke Sales, 306-586-5711, Regina, SK.

TARPAULINS

6975

SHUR-LOK TRUCK TARPS and replacement tarps for all makes of trucks. Alan, 306-723-4967, 306-726-7808, Cupar, SK.

TARPCO, SHUR-LOK, MICHEL'S sales, service, installations, repairs. Canadian company. We carry aeration socks. We now carry electric chute openers for grain trailer hoppers. 1-866-663-0000.

TIRES

7050

TREADURA COMBINE DUALS, 20.8x38's w/bolt on rims, 14x38-32 spacers, never used, \$3200. 780-581-0564, Vermilion, AB

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WALKING ON GRASS BEATS WALKING ON PAVEMENT



A lone rider keeps to the ditch along a side road just outside the hamlet of Priddis, southwest of Calgary. PHOTO: WENDY DUDLEY

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- integrated farm and pottery business

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Poultry care codes
address consumer
concerns

**The Canadian poultry codes of practice
were developed by a committee that
included animal welfare groups**

BY ALEX BINKLEY

AF CONTRIBUTOR

Canadian chicken and turkey farmers now have a book to go by.

The industry has released a set of care guidelines for their birds to help address consumer concerns about how poultry is produced.

The codes of practice were developed under the auspices of the National Farm Animal Care Council by representatives of producer, veterinarian, animal welfare and other organizations.

Ian Duncan, who represents the Canadian Federation of Humane Societies on the committee, said the process represents a concrete step forward.

“The code process provides an important opportunity for advancing farm animal welfare policy in Canada,” he said.

He noted that the code will require farmers to provide their birds with a minimum of four hours of dark time per day to rest; immediate vet care for sick and injured birds; and more humane euthanasia.

“These are reasonable standards, but we feel this code could have gone further,” added Barbara Cartwright, CEO of humane societies federation. “For example, the invasive and painful practice of trimming beaks and toes with a hot blade is still allowed, we’re only halfway to the ideal dark time for chickens and turkeys, which is seven hours per day, and we’ve done nothing to relieve the chronic hunger resulting from genetic selection that causes massive appetite and rapid growth. Ideally, we would also further decrease the number of birds housed per square metre.”

The codes have been under discussion for more than four years and will meet “more of the biological and behavioural needs of the 600 million chickens and eight million turkeys being raised on Canadian farms each year.”

A statement from major poultry-producing groups said the codes “will serve as the foundation for ensuring that farm animals are cared for using sound management and welfare practices that promote animal health and well-being.”

“These are reasonable standards, but we feel this code could have gone further.”

BARBARA CARTWRIGHT

Equine athletes to benefit from new research program

The focus will be on reducing injuries in racehorses, show jumpers, and Western pleasure, rodeo, and draft horses

UNIVERSITY OF CALGARY
FACULTY OF VETERINARY
MEDICINE RELEASE

High-performance equine athletes are like people — they need to be at peak fitness to perform at their maximum. And, as with any athlete, injuries can occur.

How to train horses for top performance while avoiding injury is one issue facing the sport horse industry in Alberta that will be studied further thanks to a new research chair — the Calgary Chair in Equine Sports Medicine — established by the University of Calgary Faculty of Veterinary Medicine (UCVM). Research enabled by the new chair will benefit the entire equine industry from show jumpers and racehorses to Western pleasure and rodeo horses and draft horses.

“It’s very important for the horse community to be at the cutting



Renaud Léguillette (on left) fits a horse with a special mask to measure the maximal rate of oxygen consumption (known as V02 max) as the animal exercises. PHOTO: UCVM

edge of research so it has direct access to new discoveries to better take care of horses and improve their health,” said Renaud Léguillette, the inaugural research chair.

The chair was set up following a Calgary Stampede donation of \$250,000 and a \$50,000 gift from Linda Atkinson, whose horse was cared for by Léguillette.

“It gives me a lot of tools to be able to do more research and faster,” said Léguillette. “When you have a research chair and you have an idea, you know the funding is there already and you can start to work right away.”

Applied research can help solve problems facing the horse community, he said.

“It’s really about how the horses are breathing, how their hearts are adapting to exercise and training and how to make sure things are safe for these horses so they can compete at their optimal level without getting injured,” he said.

“This is applied clinical research that aims to solve specific problems facing the horse community. And you don’t need to be at the Olympic level to benefit.”

The community has generously supported this program and UCVM has contributed additional support for a total value of more than \$1.5 million.

BRIEF

Nominees sought for Pulse Industry Innovator Award

The Alberta Pulse Growers Commission is seeking nominees for its third annual Alberta Pulse Industry Innovator Award.

An industry innovator is a person who has worked to help nurture and shape the pulse industry and contributed to the success of the industry as it is today. Innovators have contributed to the industry in one or more of eight areas: production, marketing, research, extension, processing, management, promotion, and innovation.

More information and the nomination form can be found at www.pulse.ab.ca (scroll to the bottom of the homepage and click on ‘News Events & Publications’).

The deadline for nominations is Dec. 8 and the winner will be announced at the Alberta Pulse Growers AGM in Edmonton on Feb. 1, 2017.

Taiwan again accepting Canadian UTM beef

Taipei’s restrictions followed last year’s first BSE case since an ‘enhanced feed ban’

STAFF

One of the top international importers of Canadian beef is back in the market after closing its ports to the product last year.

Taiwan is again accepting beef from Canadian cattle under 30 months of age (UTM), after banning them in February 2015 following the discovery of Canada’s 19th case of BSE.

Case 19 was unusual in that it was Canada’s first and so far only BSE case to be born after Ottawa imposed an “enhanced feed ban” in 2007. China and South Korea were also among the countries to re-impose beef bans after Case 19’s discovery, but both have since lifted those restrictions.

Admission of Canadian beef products from animals over 30 months of age (OTM) into Taiwan will “require further discussions” between the countries’ regulators, the Canadian Meat Council said.

“All of these market expansions are important; every gain in market access supports competition for Canadian beef.”

DAN DARLING

“Prior to the initial identification in 2003 of BSE in Canada, exports of beef products to Taiwan exceeded \$15 million per year,” said Jim Laws, the council’s executive director.

“We look forward to regaining our market share during the coming years so that Taiwan will once again become one of the Canadian meat industry’s top 10 export destinations.”



U.S. beef on display at a Taipei supermarket in 2009. Taiwan, which until last year was one of Canada’s top beef markets, has announced it will again allow imports of Canadian beef from animals under 30 months of age. PHOTO: REUTERS/PICHI CHUANG



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It’s durum but it’s not pasta

Durum wheat is famous for making good pasta, but there’s another market which is almost as large. Couscous is a staple food in the North African countries of Morocco, Algeria and Libya. It’s made by steaming durum semolina (coarse flour) and is served with a meat or vegetable stew.



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AIR DRILL

2013 Bourgault 3710, 50', 10"	\$189,000
2012 Bourgault 3710, 60', 12"	\$186,000
2010 Bourgault 3310, 75', 12"	\$95,000
2013 Bourgault 3320, 76', 12"	\$169,000
2013 Bourgault 3320, 75', 12"	\$139,000
2009 Bourgault 3310, 65', 10"	\$128,000
2011 Bourgault 3310, 65', 10"	\$138,000
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', 10"	\$85,000
2008 NH SD550, 70', 10"	\$59,000
2010 CIH 700, 70', 12"	\$33,500
2008 CIH 700, 70', 12"	\$29,500
2007 CIH 700, 70', 10"	\$28,000

AIR TANK/CART

2008 Bourgault 6550	\$89,000
2013 Bourgault L6550	\$115,000
2013 Bourgault L6550	\$115,000
1995 Flexi-Coil 5000/1330	\$28,000
2015 Bourgault L7800	\$251,800
2013 Bourgault L6550	\$119,000
2011 NH P1070, Tow Behind	\$98,000
2010 Case IH 3430	\$45,000
Bourgault 3225,	\$13,500
2005 Bourgault 6550 Trailing	\$59,500
2012 Bourgault 6450,	\$115,000
2002 Bourgault L5200, 2 meters	\$22,000
2010 CIH 3430	\$45,000
2008 CIH 3430	\$39,500
2007 CIH 3430	\$35,000
1996 Bourgault 4300	\$13,800
2010 Bourgault 6700, Tow Behind Conveyor, 3 meters	\$118,000
2012 Bourgault 6350, Tow Behind	\$58,000

BALER/ROUND

2004 CIHRBX562, 12,600 Bales	\$13,800
2003 NH BR780,	\$7,900
2005 NH BR780,	\$13,500
2003 NH BR780,	\$11,800
2006 NH BR780A,	\$14,500

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

COMBINE

2010 NH CX8080, 1297/929 hrs ..	\$268,000
2010 NH CX8080, 1300/957 hrs ..	\$255,000
2014 NH CX8080	\$398,000
2007 NH CX8080, 1650/1290 hrs	\$189,000
2015 NH CX8080 , 135 Thr Hrs...	\$419,000
2015 NH CX8080, 135 Thr Hrs....	\$419,000
2014 NH CX8080, 455/388 hrs	\$385,000
2014 NH CX8080	\$398,000
2007 NH CX8080, 1002/785 hrs ..	\$189,000
2008 NH CX8080, 2009/1522 hrs	\$238,000
2008 NH CX8080, 2005/1538 hrs	\$238,000
2012 NH CR8090, 1144/917 Hrs	\$289,000
2012 NH CR8090, 1058/811 Hrs	\$299,000
2012 NH CR8090, 727/543 hrs	\$339,000
2012 NH CR8090, 890/761 hrs	\$298,000
2014 NH CR8090	\$398,000
2002 NH CX840, 3700/2500 hrs	\$78,000
1993 NH TX36, 1993/3079 hrs	\$25,000
1997 NH TX66, 3754/2781 hrs	\$38,500
1998 NH TX66, 3438/2643 hrs	\$39,500
1998 NH TX66, 2796/2188 hrs	\$48,000
1998 NH TX66	\$38,000
1996 NH TR98, 2931/2211 hrs	\$39,000
1997 NH TR98, 2740/1934 hrs	\$48,000
1997 NH TR98, 3058/2357 hrs	\$28,000
2007 NH CR9070, 948/780 hrs	\$198,000
2007 NH CR9070, 1710/1253 hrs	\$179,000
2008 NH CR9070 1238/1026 hrs ..	\$179,000
2008 NH CR9070, 1434/1023 hrs	\$189,500
2008 NH CR9070, 1489/1020 hrs	\$195,000
2009 NH CR9070, 1733/1419 Hrs	\$169,000
2009 NH CR9070, 1597/1208 Hrs	\$179,000
2009 NH CR9070, 1351/1010 hrs	\$239,000
2010 NH CR9070, 1654/1240 hrs	\$189,000
2010 NH CR9070, 1300/1153 hrs	\$179,500
2010 NH CR9070, 1616/1190 hrs	\$189,000
2010 NH CR9080, 1289/873 hrs ..	\$268,000
2010 NH CR9080, 1410/964 hrs ..	\$258,000
2009 NH CR9080, 1347/980 hrs ..	\$249,000
2010 NH CR9090, 1333/907 hrs ..	\$309,000
2011 NH CR9090, 1302/901 hrs ..	\$280,000
2011 NH CR9090, 1087/837 Hrs	\$299,000
2012 NH CR9090, 868/632hrs	\$339,000
2012 NH CR9090, 788/619 hrs	\$379,000
2005 NH CR970, 2244/1501 hrs ..	\$138,000
2005 NH CR970, 2459/1821 hrs ..	\$138,000
2006 NH CR970, 1861/1300 hrs ..	\$169,500
2006 NH CR970, 1400/1100 hrs ..	\$178,000
2006 NH CR970, 1547/1219 hrs ..	\$189,500
2015 NH CR9.90E, 430/309 hrs ...	\$519,000
2015 NH CR9.90E, 366/268 hrs ...	\$529,000
2012 AGCO Gleaner S77, 423/323 hrs	\$298,000
2012 AGCO Gleaner S77, 446/346 hrs	\$298,000

2000 CIH8010, 1728/1322 hrs	\$189,000
2013 Claas 760, 361/233 hrs	\$389,000
2007 JD 9860STS, 1627/1161 hrs	\$208,000
2005 JD 9860STS, 1497 hrs	\$148,000

VERTICAL TILLAGE

2007 Bourgault 6000	\$25,800
2013 Salford I-2141, 41'	\$99,000
2014 Salford I-4141, 41'	\$115,000
2010 Salford 570 RTS, 30'	\$68,000

FEED WAGON/BALE PROCESSOR

2005 Haybuster 2650	\$14,900
2002 Cattlelac 330,	\$18,500
2003 Bale King 3100, RH discharge	\$9,800
2003 Lucknow 285	\$12,800

GRAIN AUGER

2001 Brandt 1390,	\$9,000
2010 NuVision 5395,	\$21,000
2011 NuVision 6395, 95' Tele-scoping	\$19,500
2010 Richiger 9' Bagger with auger,	\$33,000

HARROW HEAVY

2011 Bourgault 7200,, 84'	\$47,000
2010 Riteway 8100, 78'	\$33,000

HEADER COMBINE

2012 MacDon FD70, 45'	\$75,000
2013 MacDon CA25, with UCA	\$23,000
2012 JD 635D, 35'	\$68,000
2010 Honeybee HB30, JD adaptor 30'	\$38,500
2010 Honeybee, HB30, Gleaner adaptor, 30'	\$49,500
2008 Honey Bee HB36,	\$48,000
1999 Honey Bee SP36, 36'	\$29,000
2008 JD 936D,	\$39,900
1998 MacDon 960,	\$25,000
1998 MacDon 871 TX Adaptor	\$6,000
2011 MacDon FD70-45,	\$75,000
2012 MacDon FD70-45,	\$78,000
2013 MacDon FD75 -35,	\$78,000
2010 MF 5100-35,	\$58,000
2006 NH 88C-36,	\$58,000
2008 NH 94C-30,	\$39,500
2008 NH 94C-36,	\$49,500
2003 NH 94C-36,	\$39,500
2000 NH 994-30,	\$38,000
1999 NH 994-30,	\$29,500
1998 NH 994-36,	\$19,000
1998 NH 994-36,	\$19,000
1994 NH SP30,	\$9,800
1997 Westward 9030	\$4,000

MOWER CONDITIONER

1999 MF 670 ,16' Hay Head	\$10,000
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2012 MacDon R85, 16'	\$29,500
2006 NH 1475,	\$21,500
1995 NH 2216,	\$7,500
1995 NH 2216,	\$9,500
2012 NH H7560,	\$28,000

SPRAYER

1993 Flexi-Coil S65,	\$7,900
2003 Flexi-Coil S67,	\$19,500
2008 NH SF115,	\$24,900

SPRAYER/HIGH CLEARANCE

2008 Miller A75	\$139,500
2012 NH SP240	\$258,000
2009 Rogator 1084, 3160 hrs	\$159,000
2011 JD 4830, 1599 hrs	\$218,000
2008 CIHPatriot 3320, Eng Hrs: 3030	\$148,000
2011 JD 4830, Eng Hrs: 1820	\$218,000

SWATHER

1999 NH 994, 25'	\$15,000
2009 MacDon D60, 30' DK	\$33,000
2011 MacDon M150, 35'	\$118,000
2013 MacDon M105, 170 Hrs	\$138,000
2010 MacDon M150, 950 Hrs	\$109,500
2009 MacDon M150, 911 Hrs	\$89,000
2011 MacDon M150, 871 Hrs	\$125,000
2012 MF 9740,	\$98,000
2003 Premier 2952, 2098 Hrs	\$48,000
2005 Westward 9352, 1450 Hrs	\$69,000
2012 MacDon M155, 462 Hrs, 35' ..	\$138,000
1998 MacDon 960,	\$9,500
1998 MacDon 960, 25'	\$9,500

TRACTOR

2012 Case IH U105	\$59,000
1986 John Deere 4850, 11,460 hrs	\$58,000
2012 NH T7.170	\$109,000
2011 NH T7.170 - LDR, 2005 hrs	\$119,000
2012 NH T7.170 1690 hrs	\$118,000
2011 NH T7.270 AutoCommand - LDR, 2360 hrs	\$178,000
2001 NH TM125 - LDR, 7435 hrs...	\$48,000
2009 NH TV6070 - LDR, Eng Hrs: 4660	\$95,000
2004 NH TM175, 5200 hrs, LDR	\$74,000
2010 NH T7040	\$129,000
2011 Versatile 305, 1800 hrs	\$149,500

TRACTOR 4WD

2009 CIH STX535Q, 3103 hrs	\$278,000
2014 NH T9.615, 1263 hrs	\$338,000
2012 NH T9.615, 2706 hrs	\$259,000
2002 NH TJ450, 9000 hrs	\$138,000

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GREENPEACE TOLD TO ACCEPT GMOS

More than 100 Nobel laureates have called on Greenpeace to end its opposition to genetically modified crops, saying there is a scientific consensus they are safe and can benefit society. At a news conference, the scientists cited in particular the value of a genetically modified rice used to prevent some illnesses related to vitamin A deficiency in much of the developing world. "Golden Rice" produces beta carotene in the grain, which rice does not do in the natural world. The laureates called on Greenpeace specifically to stop opposing the grain, as well as related biotechnology that they say has a positive impact across the globe. Greenpeace officials called the event a publicity stunt. — Reuters

FEEDBACK WANTED ON LAYER CODE

A draft Code of Practice for the Care and Handling of Layers is now posted for public comment. Poultry producers, consumers and others with an interest in the welfare of laying hens have until Aug. 29 to comment. The draft code and the public comment system is accessible at: www.nfacc.ca/codes-of-practice/poultry-layers. All comments must be submitted through the online system, with the final code being released by year's end. The draft is being criticized by Humane Society International for failing to end the use of all cage confinement for laying hens despite months of consistent corporate commitments to source 100 per cent cage-free eggs in company supply chains. — staff

MORE NEWS

SeCan looks to the future as it celebrates 40 years

Canada's largest certified seed distributor is even more relevant today, says general manager Jeff Reid

BY ALLAN DAWSON
STAFF

SeCan was ahead of the curve when founded in 1976 — and still is today, says general manager Jeff Reid.

"I think it is interesting that 40 years after SeCan was initiated, it seems in many respects to almost be just coming of age now, with all the talk about public, private and producer partnerships," Reid said.

"I think sometimes when there is a problem to solve we start looking at creating new things as opposed to saying, 'Is there a solution here that we are not seeing?'"

"In that regard SeCan, I would say, is more relevant now than it has ever been."

SeCan, is a not-for-profit company and Canada's largest distributor of certified seed. With more than 700 members ranging from seed growers and processors to retailers, it was created to get new cultivars produced by publicly-funded plant breeders to farmers faster, while efficiently collecting and remitting royalties to fund more variety development.

From the get-go it was a private-public endeavour and arguably ahead of its time. SeCan is also unique in that anyone in Canada's seed sector can join, so long as they pay the fees and adhere to the rules.

SeCan has more than 480 varieties of cereals, oilseeds, pulses, special crops, grasses, and legumes and returned \$97 million in royalties to plant breeders.

But the return to farmers and Canada's economy is millions more, said Larry White, who was SeCan's third general manager from 1981 to 2005. Just getting a new hard red spring wheat with a couple of bushels an acre yield advantage out to farmers "one year sooner means millions of dollars for the whole industry," he said. "That to me was the major contribution."

Before SeCan's formation, Canada's seed sector struggled with getting new varieties out, White said. Many seed growers were also unhappy with a system that saw new varieties mostly go to pedigreed seed growers with accreditation to grow "select" seed. Many seed growers didn't get access to lucrative new varieties early in the propagation process.

There were other irritants, including a drop in pedigreed seed sales to commercial farmers, White said.

Several universities, anxious for more plant breeding funding, were looking for a way to capture a return on their innovations at a time when plant breeders' rights didn't exist. A couple of universities tried releasing a new variety to one seed company, but when companies left out complained, the industry looked for an alternative. "And SeCan was the other way," White said.

Breeders' rights were also on the minds of SeCan founders, but didn't come as quickly as expected. Although UPOV '78 provided the first international framework for breeders' right, Canada didn't adopt it until 1991.



SeCan is celebrating its 40th anniversary. The not-for-profit company is Canada's biggest distributor of certified seed PHOTO: SECAN

In some countries a government department distributed seed, others relied on private companies, while in others, it was done through seed growers. SeCan was a hybrid.

"They came up with an idea for a non-profit organization that would include all of the players," White said.

"It was really almost a melting pot of public and private coming together to get that job done in distribution," Reid said.

One of SeCan's first varieties was Bruce, a feed barley developed by the University of Guelph, which earned \$300,000 in royalties.

SeCan, which was initially run part-time by Canadian Seed Growers' Association general manager Ed McLaughlin, started with 26 directors representing everyone from publicly funded breeders and seed growers to seed plant operators and provincial departments of agriculture.

The board was cut to eight in 1998, reflecting changes in the seed industry and SeCan's role. Initially all publicly developed varieties were distributed through SeCan, but by the 1990s the rights to varieties were tendered.

"SeCan essentially no longer had a monopoly on those products," Reid said.

"We also started initiating collaborative research agreements with the public sector."

"Until that point SeCan was just the distributor, but then we actually began taking baby steps to actually start facilitating and funding that research."

For example, SeCan invested in Agriculture and Agri-Food Canada's (AAFC) successful efforts to develop midge resistant wheat.

"Any excess of revenue over expenses that goes into our surplus fund has to go back into research and development."

JEFF REID

Soon after SeCan's creation, pedigreed seed sales doubled, White said. SeCan got new seed to farmers faster by estimating the potential demand, then getting seed to many seed growers to multiply up ensuring lots of supply the first year of launch, he said.

SeCan also started promoting new varieties through advertising and demonstration plots.

Although most of its varieties come from AAFC, SeCan works with a half-dozen independent, European companies to get their varieties into Canada, Reid said.

"Increasingly that is where we see the role of SeCan," he said. "It is to give the critical mass to all those small, independent players... We can actually put significant enough dollars back into research and development, strategy and branding and communications to allow them to be effective."

It's difficult to predict what the seed business will look like in 10 years, but there's lots to be optimistic about, Reid said. New developments in biotechnology are speeding up plant breeding and making it less expensive. More companies can get into it and the business doesn't necessarily have to be dominated by a few, big players.

As a not-for-profit company, SeCan is a natural to partner with farmers who want to invest in variety development, Reid said.

"I think it really drives efficiency because we don't have a layer of shareholders where we are generating a profit that is going off to (them)," Reid said. "Any excess of revenue over expenses that goes into our surplus fund has to go back into research and development."

By focusing on getting new varieties through the testing and registration process and then seed multiplication and distribution, SeCan is a powerful partner for big and small seed developers, he added.

"It's only a narrow band where we are horizontally integrated, but we think that is becoming an increasingly vital role that we can fill in not only when working with the public sector but also the private sector," Reid said. "We think there are going to be more players in the future to bring more an interesting seed innovation to the market. I think there is a vital role there that we can play for anyone and everyone in the industry, as opposed to trying to do everything all by yourselves."

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Bear trap catches shorts looking down at bottom of soybean market



As they scrambled to cover (buy back) their positions, the market was propelled higher

BY DAVID DROZD

The soybean futures market at the CBOT has rallied \$3.50 per bushel in the past four months. This strength may have come as a surprise to some market participants, given U.S. soybean ending stocks have increased in each of the past two years. However, astute chart readers were led to believe that something was up in the soybean market when they anticipated the development of a bear trap.

Bear trap

A bear trap takes time to develop, as it will generally form over a couple of months or more. The bear trap that materialized at the harvest lows in 2006 was completed in two months. The recent bear trap in the soybean market took eight months to form.

At first, a market is found to be trading sideways in a rectangular pattern, within a well-defined area of resistance and support. An example of this is illustrated in the accompanying chart. Horizontal line (R) is drawn at \$10.60 which defines overhead resistance and horizontal line (S) is support at \$9.20.

For almost a year, the market was in equilibrium, trading in a \$1.40 range between \$9.20 and \$10.60. After an extended period of time, the market broke down from this sideways pattern. With support breached at \$9.20, the news became incredibly bearish and the market fell into a new lower trading range.

A new area of support developed at \$8.60 and from September 2015 until March 2016 the market traded a sideways range between \$8.60 and \$9.20. In April 2016, the market pushed through resistance at \$9.20. This sprung the trap shut, and caught the bears off guard as their short positions were losing money.

Increasing open interest indicated fresh buying accompanied the short covering and the subsequent rally pushed futures prices beyond the upper boundary of the rectangular pattern (R) \$10.60. The measurement from the rect-

angular pattern indicated the soybean market would rally to at least \$12 per bushel and this objective was achieved on June 10, 2016.

This measurement is derived from taking the height of the rectangle and adding it to the breakout point. $\$10.60 - \$9.20 = \$1.40$. $\$10.60 + \$1.40 = \$12$.

Market psychology

As the name implies, a bear trap catches the shorts looking down at the bottom of the market. The trap is set when futures break below the lower boundary of a rectangular pattern. At first, the outlook for lower prices has the bears feeling confident about their short positions. The ensuing bearish news substantiates the shorts adding to their profitable positions and is encouraging new shorts to enter the market.

With the market trading at a new lower level and the outlook for further weakness, what could possibly go wrong?

Well everything, if the market trades back up above US\$9.20, as it did. At first there may be a lack of bullish news to explain the sudden surge in prices, so the shorts might be reluctant to exit the market. This turned out to be a big mistake.

The shorts began hemorrhaging money, and as they scrambled to cover (buy back) their positions, the market was propelled higher. This alone was enough to drive prices up, but new longs entering the market added additional fuel to the fire.

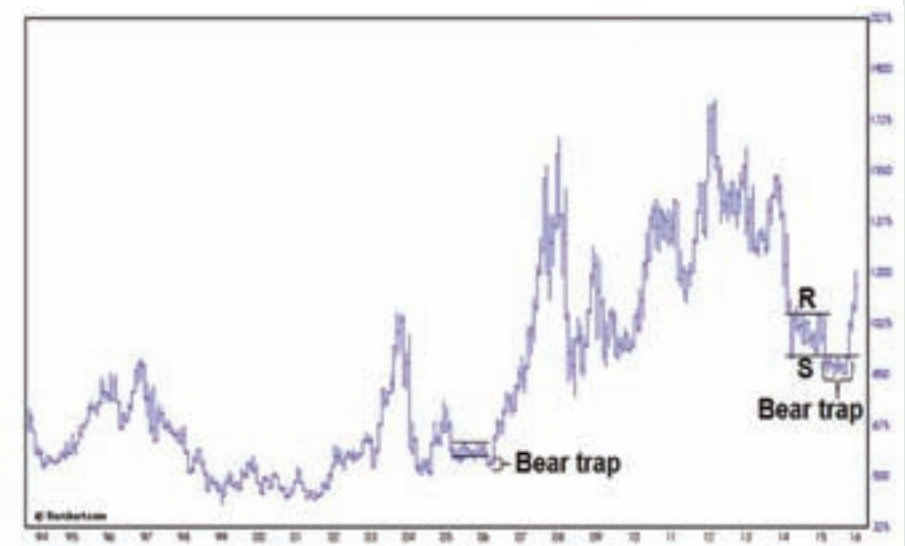
The last time I saw this occur was in October 2006. Fourteen months later, the soybean market was at a new historical high, surpassing the previous record high of \$12.90 in June 1973.

Send your questions or comments about this article and chart to info@agchieve.ca.

David Drozd is senior market analyst for AgChieve Corporation. The opinions expressed are those of the writer and are solely intended to assist readers with a better understanding of technical analysis. Visit AgChieve online at www.agchieve.ca to download a complimentary copy of my latest eBook "Technical VS Fundamental Analysis."

CME SOYBEAN MONTHLY NEARBY

Chart as of June 28, 2016



New U.S. study shows some positive effects from free trade deals

The net benefits are positive but the benefits are not evenly shared

BY DAVID LAWDER
WASHINGTON / REUTERS

U.S. free trade agreements since 1984 have had an overall positive effect on trade balances, reducing U.S. trade deficits or boosting surpluses with partner countries by \$87.5 billion in 2015, says a new government study.

The study by the U.S. International Trade Commission at the request of Congress found that the trade deals, including the controversial North American Free Trade Agreement (NAFTA) and pacts with Central American countries and South Korea, boosted net U.S. employment by 159,300 jobs in 2012 over levels that would have occurred without them.

They caused real wages to be slightly higher, by 0.3 per cent, that same year. The trade deals also provided only a slight boost to economic output of less than one per cent.

The agreements significantly improved the U.S. position in bilateral goods trade with partners in free trade agreements, boosting surpluses or reducing deficits by \$4.4 billion per country per year on average, said the ITC, the body that passes judgment on U.S. anti-dumping and anti-subsidy trade cases.

This added up to a total favourable U.S. trade position of \$87.5 billion for 2015 over estimates without the trade deals.

It noted that U.S. pork exports to Colombia, for example, had risen 300 per cent since a free trade deal took effect in 2011.

The study, mandated by last year's "fast-track" trade authority legislation that paved the way for a 12-country Pacific free trade deal, could provide some ammunition for pro-trade lawmakers to push back against a rising tide of anti-trade sentiment, particularly from the presidential campaign trail.

Presumptive Republican nominee Donald Trump on Tuesday vowed to force Canada and Mexico to renegotiate the NAFTA free trade deal or scrap it as part of his plan to protect and restore American jobs.

But the ITC study found that the benefits of free trade pacts were somewhat uneven, with export and employment gains not shared by all sectors.

Profit from knowing your cost of production

A video and e-learning tool on Alberta Agriculture's website will help you boost efficiency and profitability

ALBERTA AGRICULTURE AND FORESTRY RELEASE

Not knowing your cost of production has a large impact on profitability, says a provincial business expert.

"Knowing how much it costs to raise, grow, produce, or process your product enables you to calculate the price you need to make a reasonable profit," said new venture specialist Marissa Brewer. "Going from a base cost of production also helps determine the income your operation needs to earn to cover all costs."

What if you can't find enough customers to buy your product at your target selling price?

"This could mean your product is priced too high and you may need to find out if you can afford to reduce your price. However, reducing your price while having the same cost of production as before will mean the difference will come directly out of your profit. This is not a sustainable approach for most businesses."

The best approach is to analyze your expenses or costs that contribute to your cost of production and identify what factors have the greatest impact on your cost of production, said Brewer.

"This way, you can determine if anything can be done differently to cut costs. For example, one idea might be to switch to a different packaging supplier or invest in a more efficient packing equipment to reduce both your packaging and labour costs. Doing this might reduce your selling price without sacrificing your profit margin and the overall health of the operation."

Adjusting cost of production is a very powerful way to increase efficiency and improve profitability, she added.



A video on understanding production costs, along with an e-learning tool, can be found at www.agriculture.alberta.ca.

"Those that track their cost of production from month-to-month and year-to-year can quickly review their data to determine if costs are changing over time. Doing this makes it easier to re-evaluate production practices and regain efficiencies and savings. The better handle you have on your cost of production, the quicker you can react to changes in prices and costs, and ensure you remain profitable."

A video on understanding production costs, along with an e-learning tool, can be found at www.agriculture.alberta.ca (search for 'cost of production video' or 'cost of production e-learning').



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Farmers want and need resources for mental health: survey

Stress, anxiety, depression, emotional exhaustion and burnout are all higher among farmers than among other groups

BY LORRAINE STEVENSON
STAFF

Canadian farmers are among the most vulnerable to stress, anxiety, burnout and depression, according to early results of an online mental health survey done by researchers at University of Guelph.

They experience these symptoms in numbers higher than comparative groups, including those in the U.K. and Norway, where similar studies have been done, said Andria Jones-Bitton, a professor in the department of population medicine. She analyzed responses made by 1,100 Canadian farmers surveyed between September 2015 and January.

Some of their comments leave little doubt about the impact their work and culture is having on them, says Jones-Bitton, who is also an epidemiologist and a veterinarian.

"One said, 'We are not invincible, but we feel we must be'. Another said, 'What makes me the most upset is that I have everything I dreamed of — love, family and a farm — and all I feel is overwhelmed, out of control and sad,'" said Jones-Bitton.

Their responses indicate high levels of emotional exhaustion

and cynicism, with 45 per cent of respondents saying they're experiencing high stress. Another 58 per cent were classified with varying levels of anxiety and 35 per cent with depression.

Those findings place Canadian farmers uniquely more vulnerable to mental distress, and less resilient to those in other parts of the world where similar psychological studies have been done, said Jones-Bitton.

She said she isn't surprised by any of those findings, given what we know about pressures on the farm community. But what does stand out in these responses is that even while mental health struggles can still carry a stigma, farmers do also say they'd seek help if they needed it.

Forty per cent of those surveyed said they'd feel uneasy about getting professional help 'because of what people might think,' but more than three-quarters also said professional mental services can be helpful in times of struggle, and almost as many said they would seek out such help.

"So many people indicated that they would seek help for mental health if they were worried or stressed and that it didn't make them a weak person," she said.

"I am very happy to hear people reported they were open to get-

ting help if they found themselves in need of it."

More open to help

Canadians in general are more open to talking about mental health and the importance of getting help when needed, she added.

"It was the proverbial elephant in the room and nobody was really talking about it," she said. "I think as a society as a whole we're speaking about mental health more and we're recognizing it's just another type of illness that our society experiences, just like physical illness, and there shouldn't be any shame or discrimination as a result of it."

"It's a great sign that producers are talking about it more."

But where help is to be found by those needing and looking for it is another matter. The research also reveals that fewer than half of the farmers surveyed believe they have adequate mental health supports.

Jones-Bitton said she will need to look more closely at farmers's responses to questions about what resources they think should be in place.

"Part of our next phase of the research is looking at what resources producers want and need and what would they be likely use."

"It's a great sign that producers are talking about it more."

ANDRIA
JONES-BITTON

Jones-Bitton said she has seen mention in the survey of a need for confidential help lines producers can call. Those don't exist everywhere, she said. She was not aware of any operating in Ontario, she said, but said one program that is widely recognized in the farm community is the Manitoba Farm, Rural and Northern Supports Services. It began as a confidential telephone counseling service for farmers in the mid-1990s and today offers a variety of programs to rural and remote populations in Manitoba. The program is funded by Manitoba Health.

"We're still looking into what supports are available across the country, but my understanding from the look we've done so far is that Manitoba is far ahead of the rest of us in terms of supports offered to farmers," she said.

Another program is Saskatchewan's Mobile Crisis Services, which rolled out the Saskatchewan Farm Stress Line under its umbrella in 2012. It also offers confidential telephone counseling services and is accessible to the farm community 24 hours a day seven days a week.

In Ontario, meanwhile, Jones-Bitton is now building a team of producers, industry representatives, veterinarians and mental health professionals to create, deliver and evaluate a mental health literacy training program for farmers to help more recognize and respond to mental distress.

The focus of this work is on Ontario's agricultural sector. Jones-Bitton said the hope is that ultimately this could expand across the country.

"I do think we need a systematic program for our producers," she said. "These results are describing that we do have issues with mental illnesses in the farming population at levels that are considered to be higher than normal. I think there's a sizable population in our country that is perhaps in need of help and in need of more resources."

"The survey indicates they're wanting more resources."

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Monsanto vows to be a leader in battling herbicide resistance

The company is countering its competitors who tout their herbicides as tools in the fight to avoid herbicide-tolerant weeds

BY ALLAN DAWSON
STAFF

Monsanto Canada is fighting what it says is “fear-based rhetoric floating around about farming practices and (weed) resistance in Canada.”

In a recent full-page advertisement in several farm newspapers, including *Alberta Farmer*, Michiel De Jongh, Monsanto Canada’s president and general manager, said Monsanto should’ve addressed herbicide-resistant weeds sooner.

“When you began to battle herbicide resistance, we should have stood beside you,” De Jongh wrote. “Instead, fear spread. It’s time to trade fear for confidence.”

To that end De Jongh announced Monsanto will “take the leadership position on herbicide resistance and crop management,” which includes a new agronomy platform called Monsanto Crop Management Solutions, online at <http://monsantocms.ca>.

“It includes weed management strategies that you can customize to your farm,” De Jongh wrote.

He also invited farmers to contact Monsanto to learn about the sustainable and effective use of glyphosate, the herbicide Monsanto

invented and is used on Roundup Ready (glyphosate-tolerant) crops.

The “rhetoric” De Jongh alludes to is the idea that switching to another herbicide will prevent herbicide-tolerant weeds, said Monsanto Canada spokeswoman Trish Jordan.

“Let’s be honest,” she said. “There is competition out there and our competitors were creating a lot of noise around saving glyphosate for other things, suggesting farmers should grow (Bayer CropScience’s) Liberty Link (glufosinate-resistant) canola instead of growing Roundup Ready canola. (It’s suggested) if you want to use the Roundup Ready trait in corn and soybeans you definitely don’t want to use it in canola. We happen to know that that’s not the case. We have done a lot of research on this.”

Indeed, Bayer CropScience’s website states: “Liberty — The Only Group 10 Herbicide in Canola To Help Fight Glyphosate Resistance!”

Long-term rotation

But according to Jordan there’s more to delaying weed resistance than substituting one herbicide for another. Farmers need to plan herbicide and crop rotation over several years.

Monsanto’s Crop Management Solutions website also says: “Managing weed resistance is not about

“Let’s be honest. There is competition out there and our competitors were creating a lot of noise around saving glyphosate for other things, suggesting farmers should grow Liberty Link canola instead of growing Roundup Ready canola.”

TRISH JORDAN



using less glyphosate. It’s about using herbicides effectively.”

Hitting weeds with a tank mix of herbicides containing different modes of action is one way to use herbicides more effectively. But the idea that cutting herbicide use won’t help delay resistance contradicts what some weed scientists have said. Many believe the more times weeds in the same fields are exposed to any herbicide, the sooner resistance will appear, usually because of natural selection.

And because glyphosate is the most popular herbicide in the world and often applied several times a season either in a Roundup Ready crop or as a pre-plant, pre-emergence weed burn-off or for pre- or

post-harvest weed control, the risk is thought to be higher.

That’s probably how kochia in Western Canada developed glyphosate resistance, Agriculture and Agri-Food Canada scientist Hugh Beckie said in an interview two years ago.

“Farmers were just using glyphosate alone at high rates and that quickly selected for resistance,” he said. “They should be tank mixing another mode of action whenever possible with glyphosate and to only spray glyphosate when it’s really needed...”

When asked about recommendations to reduce glyphosate use Jordan replied: “There is a lot of noise about the overuse of glyphosate is the cause of resistance and there

is really no evidence to show that, or for that matter, any other active ingredient causing herbicide resistance *per se*. But ... if you use a particular herbicide over and over without any other herbicide modes of action we all know that is not a good idea because it (resistant weeds) will survive and produce seeds.”

The emphasis needs to be on using herbicides more effectively, she said.

“We are trying to focus on everything,” she said. “There is a big push on tank mixing, crop rotation, periodic tillage if required, proper seeding rates, certified seed, cleaning equipment — all that sort of stuff.”

The monsantocms.ca site has specific advice for farmers on tank mixing options.

Monsanto’s website had resistance information for farmers, but the message wasn’t getting through as well as the company had hoped, Jordan said.

“They (farmers) didn’t have good knowledge of some of the recommendations and things that we’re doing around weed resistance management,” she said. “That’s part of the rationale for the advertising campaign. Just to bring more awareness and understanding of the options available to growers.”

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'12 NEW HOLLAND CR9080,
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Cyl, Dlx Chopper, 7.7m Auger, HID Lights
\$310,000 SC



'14 NEW HOLLAND CR8090,
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90mm Cyl, Dlx Chopper, Ext Wear Elevator
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'14 NEW HOLLAND CR8090,
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2009 New Holland P2060/P1060	\$149,000 SH
2010 New Holland P2070/P1060	\$185,000 MJ
2010 New Holland P2070/P1060	\$189,000 MJ
2011 New Holland P2070/P1060	\$135,000 SC

BALE WAGON

1950 Misc HAAKUS WGN	\$4,500 MH
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BALER/ROUND

2015 New Holland 560	\$55,000 TA
1999 New Holland 688	\$9,900 SC
2008 New Holland BR7090	\$23,000 SC
2008 New Holland BR7090	\$23,000 MJ
2009 New Holland BR7090	\$25,000 SC
2011 New Holland BR7090	\$29,000 SC
2011 New Holland BR7090	\$32,000 SC
2012 New Holland BR7090	\$32,000 MJ
2004 New Holland BR780	\$19,000 SC

COMBINE

2008 Case IH 2588	\$159,000 SC
2013 Case IH 8230	\$349,000 TA
1987 John Deere 7720	\$17,000 SC
2010 John Deere T670	\$199,000 SH
2008 Massey Ferguson 9895 w/ 4200 PU	\$220,000 TA
2011 Massey Ferguson 9895 w/4200 PU	\$295,000 TA
2012 New Holland CR8090	\$310,000 SC
2014 New Holland CR8090	\$359,000 SH

2014 New Holland CR8090	\$409,000 SC
2014 New Holland CR8090	\$410,000 SH
2008 New Holland CR9060	\$189,000 MJ
2009 New Holland CR9060	\$189,000 MJ
2010 New Holland CR9060	\$189,000 SH
2010 New Holland CR9060	\$195,000 SH
2010 New Holland CR9060	\$219,000 SC
2010 New Holland CR9060	\$219,000 SC
2008 New Holland CR9070	\$239,000 BR
2010 New Holland CR9070	\$259,000 SH
2010 New Holland CR9070	\$259,000 MJ
2010 New Holland CR9070	\$269,000 SH
2010 New Holland CR9070	\$269,000 SC
2011 New Holland CR9070	\$269,000 SH
2011 New Holland CR9070	\$269,000 TA
2005 New Holland CR960	\$99,000 MJ
2006 New Holland CR960	\$99,000 SC
2006 New Holland CR970	\$189,000 SH
2007 New Holland CX8080	\$159,000 SH
2014 New Holland CX8080	\$369,000 SC
2001 New Holland CX840	\$99,000 MH
1990 New Holland TR96	\$15,000 SC
2001 New Holland TR99	\$45,000 SC

DEEP TILLAGE

2012 Horsch Anderson RT370	\$85,000 TA
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DISK

2012 Buhler TD600	\$52,000 MJ
John Deere 335	\$29,000 TA

GRAIN CART

2012 Misc 1400	\$65,000 SC
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HEADER COMBINE

2008 Case IH 2015	\$15,000 SC
2010 Case IH 2142, 35"W	\$49,000 BR
2012 Case IH 3016, 15"W	\$24,000 MH
2013 Honey Bee 36GB, 36"W	\$45,000 SH
2013 Honey Bee 36GB, 36"W	\$45,000 SH

1997 Honey Bee HB25, 25"W	\$15,000 SC
2008 Honey Bee HB30, 30"W	\$29,000 TA
1997 Honey Bee SP30, 30"W	\$21,000 MJ
1996 Honey Bee SP36, 36"W	\$15,000 SH
1998 Honey Bee SP36, 36"W	\$22,000 SC
2004 Honey Bee SP36, 36"W	\$32,000 SH
2005 Honey Bee SP36, 36"W	\$25,000 SC
2005 Honey Bee SP36, 36"W	\$25,000 SH
2008 Honey Bee SP36, 36"W	\$35,000 SH
2011 Honey Bee SP36, 36"W	\$45,000 SH
2012 Honey Bee SP40, 40"W	\$49,000 SH
1988 John Deere 912P, 12"W	\$4,000 SC
1999 John Deere 914, 14"W	\$10,000 MH
2009 MacDon FD70, 35"W	\$55,000 SH
2010 MacDon PW7	\$19,000 BR
2014 New Holland 790CP, 15"W	\$29,000 SC
2013 New Holland 740CF, 35"W	\$35,000 TA
2013 New Holland 740CF, 35"W	\$35,000 SH
2009 New Holland 74C, 35"W	\$29,000 MH
2009 New Holland 74C, 35"W	\$37,000 MJ
2009 New Holland 74C, 35"W	\$37,000 MJ
2014 New Holland 790CP, 15"W	\$29,000 SC
2014 New Holland 880CF, 40"W	\$99,000 SC
2014 New Holland 880CF, 40"W	\$99,000 SH
2014 New Holland 880CF, 40"W	\$99,000 SH
2015 New Holland 880CF, 40"W	\$85,000 SC
2015 New Holland 880CF, 40"W	\$85,000 SC
2015 New Holland 880CF, 40"W	\$85,000 SC
2015 New Holland 880CF, 40"W	\$85,000 SC
2004 New Holland 94C, 36"W	\$29,000 SH
2007 New Holland 94C, 36"W	\$35,000 SH
2008 New Holland 94C, 36"W	\$35,000 MH
2010 New Holland 94C, 40"W	\$49,000 BR
2012 New Holland 94C, 36"W	\$35,000 SC
2012 New Holland 94C, 40"W	\$55,000 SC
2012 New Holland 94C, 40"W	\$62,000 SC
1995 New Holland 971, 13"W	\$3,500 SC

1992 New Holland 973, 24"W	\$5,000 SC
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MOWER CONDITIONER

2006 AGCO Hesston 1275	\$17,000 MJ
1990 John Deere 1600	\$6,500 BR
2007 MacDon A30-S	\$19,000 SC
2014 Massey Ferguson 1375	\$41,000 MJ
1996 New Holland 1475/2200	\$14,000 SH

MOWER CONDITIONER/DISC

2013 Massey Ferguson 1375	\$34,000 SC
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RAKE/WHEEL

2015 New Holland 1225	\$23,000 SC
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SKID STEER LOADER

2013 John Deere 329D	\$49,000 SC
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SPRAYER

2009 New Holland S1070	\$39,000 MJ
2010 New Holland S1070	\$29,000 TA
2012 New Holland S1070 (W/B)	\$25,000 MH

SPRAYER/HIGH CLEARANCE


2008 Apache 1010	\$139,000 SC
2009 Apache AS1010	\$145,000 SC
2013 Apache AS1220	\$215,000 SH

TELEHANDLER

2012 Dieci AGRITEC 35.7	\$90,000 BR
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TRACTOR

2010 New Holland 3040	\$23,000 SC
2014 New Holland BOOMER 41	\$19,900 MJ
2013 New Holland T4.105	\$65,000 SC
2014 New Holland T9.390	\$265,000 SC
2003 New Holland TC21DA	\$15,000 SC
2007 New Holland TC35DA	\$21,000 SH
2007 New Holland TG305	\$119,000 TA

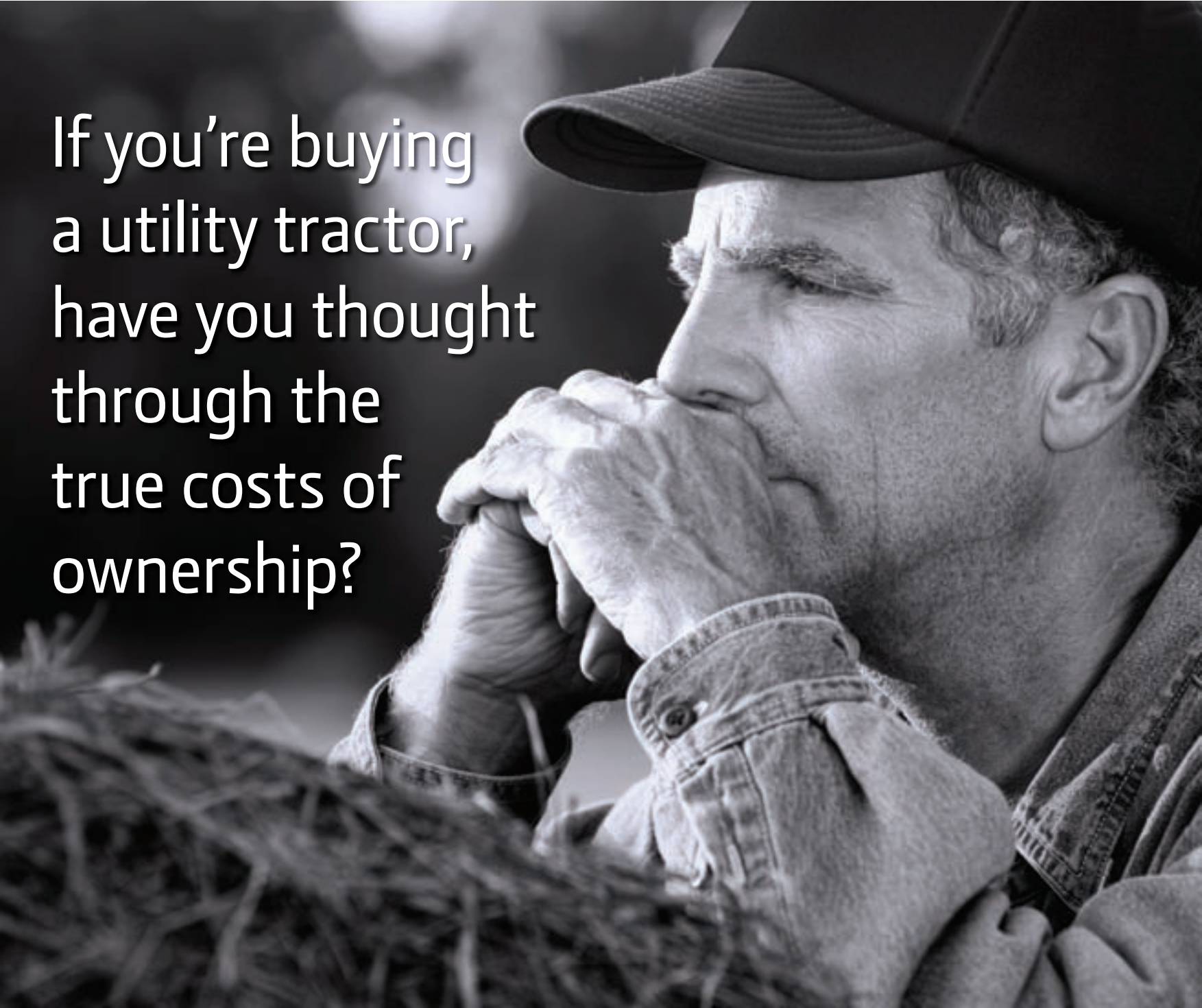


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If you're buying
a utility tractor,
have you thought
through the
true costs of
ownership?

Choosing what kind of tractor to buy can be confusing and stressful. Lots of brands offer claims of greater productivity, higher efficiency, and so on. And it's all too easy to get caught up in the hype — and then be lured by low-ball pricing and huge discounts. But the true purchase cost of any tractor is often buried deep within the operator's manual. And this surprise may end up costing you thousands.

What's hiding in the fine print

One brand of utility tractor in the 75 to 125 hp class has routine maintenance requirements that would have you replacing up to 27 parts every two years. This includes oil, air, and fuel filters plus all sorts of hoses, cables, and lines. The costs really add up.

Now, compare the John Deere 5M Series. A simple oil change is the only routine maintenance you'll need to perform during the first two years of ownership.

We design our tractors with built-in durability — with components and parts designed to last and last. Need a little proof?

Our 5Ms feature durable steel brake lines — unlike the less-costly and fatigue-prone rubber hoses found on other tractor makes.

Then consider our abrasion resistant braided wire hoses used in our steering system and rear hitch — they are simply stronger, and longer lasting than the conventional hoses used by some other manufacturers.

So when you're ready to buy your next tractor, be sure to ask one vital question: "What will it cost to maintain — year-after-year?" The answer might surprise you.

Then, talk to your John Deere dealer. See how a new 5M delivers one of the lowest costs of ownership of any utility tractor in its class. It's a question you won't regret asking.

JohnDeere.ca/5Family



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