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Manitoba Co-OPERATOR

JUNE 27, 2013

SERVING MANITOBA FARMERS SINCE 1925 | VOL. 71, NO. 26 | \$1.75

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Potato seed growers want less herbicide drift



PHOTO: JEANNETTE GREAVES

Sometimes potato plants show no signs of damage, but tuber germination can suffer and only be discovered the following year

By Allan Dawson
CO-OPERATOR STAFF

When it comes to seed potatoes and herbicide drift, what you can't see can hurt you.

Increased use of glyphosate as a pre-harvest burn-down, as well as increased acreage for Roundup Ready corn and soybeans, has upped the use of the ubiquitous herbicide — and that's upped the risk for seed potato growers.

"If it's a systemic (herbicide) product, it will be translocated into the tubers and that's the concern," said Jeremy Kuhl, a director with the Seed Potato Growers Association of Manitoba.

"You might not see the drift on the plant, but the glyphosate will be present in the tubers and it will either delay or inhibit emergence of the daughter tubers for the following crop."

The association has launched

an awareness campaign to alert neighbours and custom herbicide applicators about seed potatoes' sensitivity to herbicide drift.

"We really need to communicate and work together with our neighbours to make them aware of the concerns," said Kuhl, who is vice-president of seed potato and rotational crops with the Southern Manitoba Potato Co.

"It's obviously not just a con-

cern on potatoes. Drift is a concern in any situation."

However, when glyphosate drifts into a neighbour's field of canola the damage is usually visible seven to 10 days later, and so calculating the compensation is relatively straightforward.

But damage to seed potatoes may not show up until the potato grower who planted the affected seed complains about

See **POTATO** on page 6 »

Manitoba farmers credited for using fertilizer efficiently

But drainage and wetland loss threatens water quality

By Laura Rance
CO-OPERATOR EDITOR

New research by the International Institute for Sustainable Development has confirmed what Keystone Agricultural Producers president Doug Chorney already knew about how farmers manage fertilizer in this province.

After comparing how much synthetic fertilizer Manitoba farmers use in every municipality across agro-Manitoba against

the nutrients removed by crops, researchers found farmers here are highly efficient compared to other jurisdictions.

In fact, in some areas and in some years, they are actually applying less than is removed by their crops, which is leaving a net deficit of phosphorus in their soils.

"What it points out is that Manitoba (farmers are) actually very efficient users of fertilizers in total compared to other jurisdictions in the world and they

are getting better," said Hank Venema, director of IISD's Water Innovation Centre.

Chorney said the study, a draft of which was released at a Winnipeg conference on water management last week, came as no surprise. But it was encouraging all the same.

"It proves that producers are efficiently managing synthetic fertilizer use and I think that confirms what many of us know," he said. "But it's nice to have some evidence of that."

Chorney said crop farmers have been accused of over-applying fertilizer, which contributes to increased run-off and nutrient contamination in Lake Winnipeg. "I think we can make the case that synthetic fertilizer is used pretty efficiently."

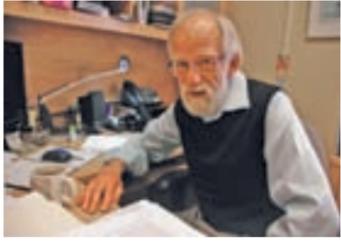
But still too much

But while the way farmers manage their inputs isn't a major contributor to nutrient

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DID YOU KNOW?

The answer is blowing in the wind

Researchers find the West is dustier than it was before

UNIVERSITY OF COLORADO AT BOULDER RELEASE

The amount of dust being blown across the landscape has increased over the last 17 years in large swaths of the West, according to a new study led by the University of Colorado Boulder.

The escalation in dust emissions — which may be due to the interplay of several factors, including increased windstorm frequency, drought cycles and changing land-use patterns — has implications both for the areas where the dust is first picked up by the winds and for the places where the dust is put back down.

"Dust storms cause a large-scale reorganization of nutrients on the surface of the Earth," said Janice Brahney, who led the study as a CU-Boulder doctoral student.

The research team set out to determine if they could use calcium deposition as a proxy for dust measurements. Calcium can make its way into the atmosphere — before falling back to Earth along with precipitation — through a number of avenues, including coal-fired power plants, forest fires, ocean spray and, key to this study, wind erosion of soils.

Brahney and her colleagues reviewed calcium deposition data from 175 NADP sites across the United States between 1994 and 2010, and they found that calcium deposition had increased at 116 of them. The sites with the greatest increases were clustered in the Northwest, the Midwest and the Intermountain West, with Colorado, Wyoming and Utah seeing especially large increases.

The scientists were able to determine that the increase was linked to dust erosion because none of the other possible sources of atmospheric calcium — including industrial emissions, forest fires or ocean spray — had increased during the 17-year period studied.



A mile-high, 100-mile-wide dust storm that blew through Phoenix, Arizona in July 2011 is pictured in this NASA's Moderate Resolution Imaging Spectroradiometer (MODIS). Day turned into night as the billowy plumes of dust rolled over the mountains and clogged the skies over and around Phoenix. PHOTO: REUTERS/MODIS RAPID RESPONSE TEAM/NASA/HANDOUT

The increase in dust erosion matters, said Brahney, who is now a post-doctoral researcher at the University of British Columbia, because it can impoverish the soil in the areas where dust is being lost. Wind tends to pick up the finer particles in the soils, and those are the same particles that have the most nutrients and can hold on to the most soil moisture.

Where the dust travels to is also affected, though the impacts are more mixed. When dust is blown onto an existing snowpack, as is often the case in the Rockies, the dark particles better absorb the sun's energy and cause the snowpack to melt more quickly. But the dust that's blown in also brings nutrients to alpine areas, and the calcium in dust can buffer the effects of acid rain.

READER'S PHOTO



PHOTO: BARB JACK

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Member, Canadian Circulation Audit Board,
Member, Canadian Farm Press Association,
Member, Canadian Agri-Marketing Association



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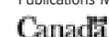
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36 months – \$120.00 (incl. GST)

USA
12 months – \$150.00 (US funds)

Publications Mail Agreement # 40069240 ISSN 0025-2239



We acknowledge the financial support of the Government of Canada through the Canada Periodical Fund of the Department of Canadian Heritage for our publishing activities. Canadian Postmaster: Return undeliverable Canadian addresses (covers only) to:

Circulation Dept., 1666 Dublin Ave., Winnipeg, MB. R3H 0H1

Southwestern Manitoba students visit nature's classroom

The Binney Siding Water Festival shows students how water is connected to — everything

Pembina Valley Conservation District release

Approximately 215 students from Cartwright, Indian Springs, Holland, Crystal City, Treherne, Westmount, Maple Leaf French Immersion, St. Claude, and Somerset schools took part in the fourth annual Binney Siding Water Festival on June 14, 2013.

The event is co-hosted by the Pembina Valley and La Salle Redboine conservation districts who partnered with the Prairie Spirit School Division to bring hands-on learning to local students.

Enbridge Pipeline Inc. once again sponsored the event by providing a tasty hotdog lunch to all students, teachers, and volunteers!

Elementary school students, in groups of five to eight, made their way along the trails at Binney Siding Nature Preserve, stopping at 10 different stations reflecting aspects of the Grade 3-6 science curricula, particularly on Grade 4 science.

The water festival is designed to show students that water is con-

nected to everything, from micro-organisms living in the dirt to the oxygen we breathe, so each station incorporates water in a fun, hands-on way.

Students see how precious drinkable water is (we sometimes take it for granted living in Canada), how water moves through the water cycle, and the ways we can change/affect the quality and quantity of water. Stations on soil, forestry, mammals and water safety also get the students looking at water from different perspectives. Of course, a highlight always for students is the “critter dipping” off of the floating boardwalk and identifying all of their “catches” at the identification station.

“In Prairie Spirit School Division, we encourage students to learn their local stories so that they can better understand global examples,” said Prairie Spirit School Division learning services administrator, Lynda Matchullis. “Using outdoor classrooms like Binney Siding Nature Preserve is a great way to teach the curriculum.”



Rejean Picard (MAFRI) leads students in the “dig it” station where students examine soil components and soil water-holding capacity.



Shawn Dias (THINKTREES – Manitoba Forestry Association) leads students in an activity that shows how trees absorb water and sound when it rains. Students also get to age a tree by counting tree rings.



Jo-lene Gardiner (MAFRI) leads students in the “dig it” station where students examine soil components and soil water-holding capacity.



Students identify the “critters” they caught while dip netting along the floating boardwalk.



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OPINION/EDITORIAL

Get used to it?



Laura Rance
Editor

Just as water and climate expert Bob Sandford began his keynote address at a Winnipeg conference about water management last week, he received a text from his son back home in Canmore, Alta. It was about a river gone wild.

As Sandford spoke on the science of why weather patterns are becoming more turbulent, resulting in extreme precipitation events, Canmore was washing away. Within hours more than 75,000 Calgarians were displaced as flood waters inundated the city's downtown.

Last week south Winnipeg was deluged with a cloudburst that within minutes had overwhelmed the storm sewers, flooding streets, basements, cars and businesses. The other side of the city received nary a drop. Heavy rains over the weekend caused flash flooding in the RM of Pipestone and communities on the Little Saskatchewan River are on flood watch.

You could sum up Sandford's 30-minute presentation in four words: Get used to it.

Sandford works for EPCOR, the City of Edmonton's water utility, chairing the Canadian Partnership Initiative in support of the UN's Water for Life Decade project. His job is translating the science of climate change into language the general public and policy-makers can use towards meaningful adaptation.

The science links these recent weather events directly to global warming. Those melting polar ice caps we've all been reading about don't just affect polar bears and caribou; researchers are gaining new knowledge about the important role the world's cold spots play in our weather.

"Ice plays a critical role in modulating the temperature in the Earth's atmosphere and its oceans," Sandford said. "Polar ice is now seen as a thermostat that governs major weather patterns globally and regulates sea level."

Arctic sea ice has been melting. That's affecting jet streams. Warm and cold fronts are now showing up in odd places and sticking around longer, causing floods and droughts "of a magnitude we are poorly equipped to manage."

"What we are seeing in North America is not so much a warming as a destabilization of historic weather patterns," he said. "People are complaining the weather is all over the place. Well, it is."

NASA records show that between 1951 and 1980 extreme hot weather covered less than one per cent of the Earth's surface. Now extreme temperatures cover about 10 per cent. It is estimated that 300 glaciers have disappeared from the Canadian Rockies between the early 1800s and 2005.

"Warming is causing the post-glacial hydrological wealth of Canada to change form. The water is not disappearing, water doesn't do that. What is happening is the liquid water is moving to a different place in the hydrosphere," he said.

"One of the places it is going is into the atmosphere where it becomes available to fuel more frequent and intense extreme weather events."

In short, Sandford says the old math about how to manage water — and extreme precipitation events — no longer works. That might explain how a shower lasting only a few minutes would overwhelm the city's storm sewer or why thousands of people in Alberta have suffered untold losses and displacement or why Reston — situated on the flat prairie — would experience a flash flood.

The implications for a province like Manitoba are ominous given its geographic placement as the drain at the bottom of the bathtub for two major North American rivers spanning multiple jurisdictions.

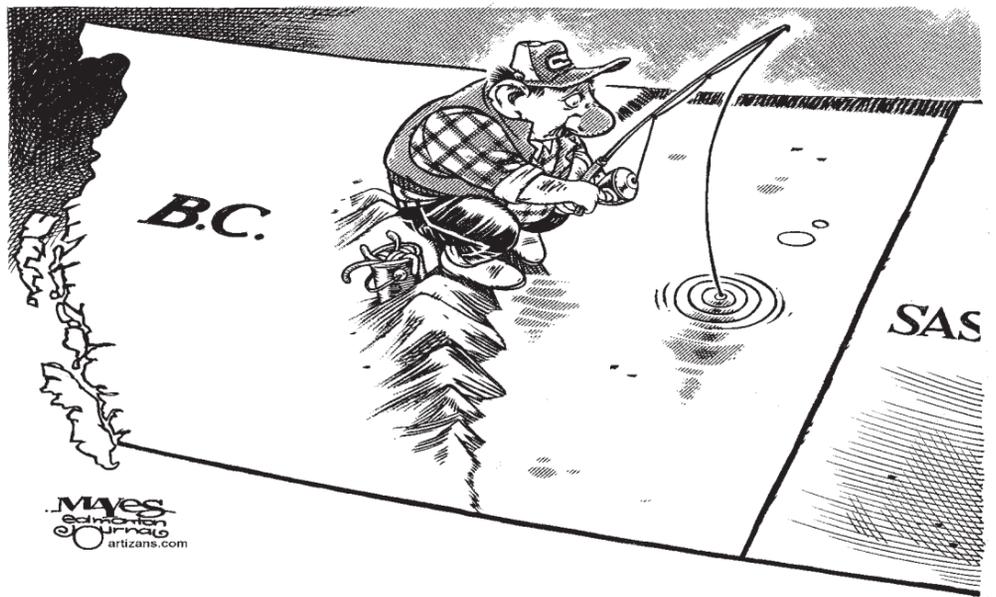
"It appears the Central Great Plains region may have passed over an invisible threshold into a new hydroclimatic state, which if not properly managed, could over time bankrupt flood-prone Canadian jurisdictions like Manitoba," Sandford said.

Our front-page story last week on dissatisfaction among farmers in the Shoal Lakes area over whether provincial buyout offers are fair value prompted a call from a farmer in southwestern Manitoba wondering if farmers losing land to an overflowing Whitewater Lake are also eligible for provincial buyouts or compensation. And if not, why not?

It's a fair question and one that the provincial government could face repeatedly now that it has set a precedent of buying out Shoal Lakes farmers because of flooding that appears to be part of a changing hydrological cycle.

As Sandford suggests, at some point the public purse could well run out of capacity.

Whether Manitoba sinks or swims in this new environment is going to depend largely on the success of recent efforts to collectively craft a mitigation and adaptation strategy for water management across the entire basin. As much of that land base is controlled by farmers, this has obvious implications for agriculture.



Analyzing the Smithfield deal

By Daryll E. Ray and Harwood D. Schaffer

The Chinese meat products firm Shuanghui International has announced its acquisition of Smithfield Foods, which controls 26 per cent of U.S. pork-processing capacity and 15 per cent of U.S. pork production.

The value of the transaction is estimated by Smithfield to be US\$7.1 billion.

A number of questions began to run through our heads.

Good deal

At first glance, it appears to be a good deal for the stockholders of Smithfield. They will receive a bonus of approximately \$8 per share if the deal goes through.

Smithfield asserted that the sale would be good for U.S. producers because it would increase the export market for U.S. pork. It could be expected that increased exports would increase the income of U.S. pork producers and guarantee them a stable market. On the other hand, the new owner could increase Smithfield's internal pork production, thus reducing slaughter capacity for producers without a contract. That could put negative price pressure on independent pork producers with no place to slaughter their pigs.

Like with pork producers, the impact of the sale on U.S. consumers could be positive or negative. If pork exports to China increase faster than production, U.S. consumers could see a shortage of pork and an increase in the price. But if the goal of Shuanghui is to access cheap exports for Chinese consumers, U.S. consumers could benefit as well.

Though the stated purpose of the purchase is so that Shuanghui can supply the Chinese market with safe, high-quality pork, one wonders if there is more to it than that. Once

Shuanghui gets their production in China up to U.S. standards, will it want to turn the pipeline around and ship pork the other way? A June 3, 2013 article in the *New York Times* reported that prior to the deal, Shuanghui's chairman, Wan Long, had said: "Our goal is to be the biggest in China, and the leading meat supplier in the world."

Many of China's purchases are for raw materials like ore, scrap metal, and soybeans that can be further processed in China, providing employment for their population and products to export, creating a positive balance of trade for China. In this case they are talking about allowing the further processing to remain in the U.S. Are we missing something?

Given the difference between the wages and costs in the U.S. and Brazil and Brazil's potential for expansion, why didn't they purchase a Brazilian firm?

In addition to securing food for the future, is the potential Smithfield deal also part of a general Chinese policy of making strategic worldwide investments as a means of benefiting from the economies and strengthening political allegiances with the U.S. and other countries?

As we know in the case of the U.S., China has quite a stash of accumulated dollars from years of a negative balance of trade on the part of the U.S. to purchase productive assets. With the Smithfield investment as an example, they get the profits that used to go to domestic investors and pork to boot.

Daryll E. Ray holds the Blasingame Chair of Excellence in Agricultural Policy, Institute of Agriculture, University of Tennessee, and is the director of UT's Agricultural Policy Analysis Center (APAC). Harwood D. Schaffer is a research assistant professor at APAC. <http://www.agpolicy.org>.

OUR HISTORY: June 1926

Readers of the June 1926 *Scoop Shovel* could get a good deal on a used car at Breen Motor in Winnipeg, including a McLaughlin, Overland, Reo, Grey Dort, Oakland, Star and Chandler as well as other makes still familiar today.

The previous winter must have been a cold one on the Great Lakes, at least judging by the front-page photo ("Taken from an aeroplane") of a line of lake vessels breaking through the ice on the first trip of the season from Fort William en route to Buffalo.

The signup drive for the wheat and coarse grain pools run by each provincial Pool was still in full swing. The issue featured an interview with an enthusiastic supporter, Mr. H.W. Brown of Sperling. He had delivered 13,090 bushels to the 1924-25 pool, and was so satisfied that he had contributed \$441.67 to the reserve funds to construct the Sperling elevator. He had also joined the coarse grain pool, and, "(W)ith his sons, signed up all the land they control in the Sperling district, to a Pool elevator, agreeing to put all of their grain through the Pool and the Pool elevator for the next five years."

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The issue also reported that the Saskatchewan Court of Appeal had upheld a breach of contract claim against a Saskatchewan Pool member who had not delivered the grain pledged in a pool contract, and that it could collect liquidated damages of 25 cents per bushel.

The drones are coming to a sky near you

UAV use in crop production will soon expand as technology advances

By Will Verboven
STAFF

Most folks have heard about the use of drones for military purposes, but there is a much better future for these unmanned aerial vehicles (UAV), as they are officially called, in the world of agriculture. A number of universities and research agencies are already busily investigating their use mainly for crop surveillance of diseases and other production issues. The potential is certainly clear, the research is now trying to find what system and equipment will work best at the least cost. However, the real push is coming from private UAV developers and monitoring equipment manufacturers who see new marketing potential in agriculture applications. A whole swarm of companies in the U.S., Europe, Canada and Australia are already well along with UAV concepts and prototypes. An additional industry inventing unique plant sensors and cameras will probably be created to take advantage of advancing drone technology.

Aerial crop surveillance isn't new — satellites and aircraft have done it on a limited scale for years. But the results were not always detailed or timely, and cost was a limiting factor. However, the advancement in technology has changed all that. Military drones now seem to be able to read newspapers at 500 feet, do it for hours on end with precise GPS measurements and broadcast the results to a cellphone instantly. With that type of pinpoint accuracy one can envisage new

What an advancement to peace-of-mind ranching that would bring to a lot of producers, if you could launch a personal drone to search and locate predators near your livestock.

camera technology that will identify what types of insects may be in a field and how many are infesting a crop.

I expect all of that future surveillance will see further development in the use of attack drones that could spray crops against disease and pests in the exact location of the outbreak. That could see considerable saving in herbicides and pesticides in blanket spraying as is now done by ground equipment and large spray aircraft. You would think green groups would be shouting hallelujah with this technological revolution, but I suspect chemical companies may not be as enthusiastic.

Another area that might see the use of drones is in locating and counting livestock on range operations or large feedlots. Helicopter drones could fly over an area at 100 feet and scanners would pick up the tagged cattle. No more riding the range looking for stray or sick cattle. Feedlots would know instantly cattle numbers in pens and fields on any day. It's not that far fetched — Walmart and other retailers are developing tiny electronic tags that can be inserted onto every item they sell. Those items can then be scanned all at once in a grocery cart and a bill made up instantly. I expect present

animal ID tags will be replaced with even more advanced technology within the next five years if the retailers move forward with their technology. Ultra-high-frequency livestock ear tags are already well along with development.

There is a further precedent to this concept. Long-distance electronic monitoring of wildlife with radio collars has gone on for years using directional antennae. More advanced technology using drones could be used to locate the whereabouts of tagged predators like bears and wolf packs. What an advancement to peace-of-mind ranching that would bring to a lot of producers, if you could launch a personal drone to search and locate predators near your livestock.

Of course there is a further extrapolation of this type of technology. Are we that far away from having an ID chip inserted into humans that could be picked up by drone surveillance? That would sure make law enforcement a much more interesting exercise. The number of missing persons would certainly be reduced. If you think that is unlikely, think again, how many parents would not want an ID chip inserted in their kids in case the child is lost or kidnapped? But that opens a whole new can



Customers of MAVinci, manufacturer of the camera-equipped "Sirius" unmanned aerial vehicle (UAV) check their laptop during a training session on an airfield for model aircraft in Walldorf near Heidelberg, June 13. According to the European Commission, there are more than 400 projects across 20 European countries to develop civil UAV ranging from some weighing just a few grams to others the size of an Airbus A320 jet. PHOTO: REUTERS/RALPH ORLOWSKI

of worms and it's already a big concern in the U.S.

The Federal Aviation Authority in the U.S. is in the midst of developing a policy on how to regulate the private use of advanced UAVs. At present only hobby-level model aircraft can be used by private citizens without a licence. The concern has to do with privacy. Authorities are worried that more advanced low-cost drones can be used by citizens to spy on other citizens for nefarious, nuisance or even titillating purposes. It gets worse, government agencies could expand their surveillance of the behaviour of citizens.

What if green or animal rights activist groups wanted to spy on a farming or feedlot operation to gather incriminating evidence? They could do this if they were allowed to use advanced drones.

In Canada federal regulations are keeping pace with UAV advancements, agencies are more concerned with safety and sharing airspace with other aircraft. But it's a whole new world, and advancements in UAV engineering is opening up all sorts of possibilities not just in agriculture but in areas like pipeline inspection, forest fire surveillance and yes, catching speeding cars on highways.

It would seem that the future of drones for use in agriculture would be a great leap forward and make crop production even more efficient and I expect that will come. The problem for authorities and society is to find a way to use UAVs for their positive potential and not allow it to be abused. I expect those concerns are being struggled with as we speak.

Letters

We welcome readers' comments on issues that have been covered in the *Manitoba Co-operator*. In most cases we cannot accept "open" letters or copies of letters which have been sent to several publications. Letters are subject to editing for length or taste. We suggest a maximum of about 300 words.

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GM fears justified

The article "Controversial study finds pigs hurt by GM feed" requires a response from me to all farmers/consumers and the Monsantos of the world. I have been suffering with eczema for the last 15 years. In February, when I went to Cuba on a two-week farm tour, I found that my eczema cleared up. Cuba has been awarded for its sustainable organic farming methods.

In March, I was on the road a lot, so my eczema continued to plague me. In April, I made every attempt to get off GM canola oil, corn, and soybean products. As a "from scratch" cook this was not too difficult. My eczema has cleared up again. Within a day of consuming too much GM products, my eczema itches and breaks out.

My wild birds had been eating canola seed for years. When GM canola came in, my birds ate it one day and wouldn't eat any more of the product.

Even when I found a source of organic canola, they wouldn't look at the feeder. Many people think birds are stupid, as we have the phrase "bird brains," but I think they are wiser than us.

Jeffrey M. Smith's book, *Seeds of Deception* mentions that the unknown factor in GM products can go in 20 different directions. The industry just doesn't know which direction these factors will take off.

If I was a researcher today, I would be looking into the cancer rates for all of the digestive tract cancers (esophagus, stomach, bowel) over the last 60 years. It is my impression that there are a lot more bowel cancers today than a few years ago.

Read Smith's book for a real eye-opener that exposes industry and government lies about the safety of GM or GE foods. What gives Monsanto the right to experiment on me or a whole nation without long-term adequate testing? Consumers are justified in their fear of GM foods.

Marcella Pedersen
Cut Knife, Sask.

Climate chickens still dodging climate change

I call them Manitoba's "climate chickens."

Premier Greg Selinger and Finance Minister Stan Struthers had a golden opportunity to tackle this province's climate change woes bravely and effectively. And, they blew it.

During the last election campaign, they (and the other major parties) seemed to conspire to keep climate change off the table, altogether. Now, Struthers concedes, at long last, "Our climate is changing, bringing an increased frequency of major flooding." (Apparently, flood-fighting costs in this province

have jumped, fourfold over the past 15 years compared to the previous 15.) And so, they claim, they need more money to pay the billions of dollars damage which that flooding has caused.

So, what do they do?

Instead of biting the bullet and bringing in a carbon tax, as British Columbia did successfully several years ago, they strangely decide to hike the provincial sales tax (PST) by one per cent. What on earth has the PST got to do with climate change? Not only is it surely proving just as unpopular as a carbon tax would have been, it is probably a regressive one — shifting an unfair portion of the cost on to the poor — at the same time.

Sure, B.C.'s carbon tax isn't popular, either. But, while it discourages people from burning fossil fuels of any kind, it also rebates them in other ways, through reductions in income tax, for example.

And it's working.

An economist who studied its effects found that, within three years of its introduction, the carbon emissions and fossil fuel consumption had dropped more in B.C. than anywhere else in Canada by a significant margin. He concluded these emissions reductions are attributable to the carbon tax.

Don't forget, it is these emissions which are to blame for catastrophic global warming and an increase in the frequency and severity of such severe weather events as we are seeing right now in Alberta.

Sadly, as long as our leaders think they can use climate change as some kind of excuse for bringing in unpopular tax increases that do nothing to lessen its ravages, we can all brace for more floods, wildfires, droughts and crop losses in our future.

And our climate chickens will truly have come home to roost!

Larry Powell
Roblin, Man.

FROM PAGE ONE

POTATO Continued from page 1

poor germination the following year. That farmer might want a refund or to be compensated for lost revenue. The latter could be a big bill given potatoes are a high-gross-revenue crop.

In some cases, commercial herbicide applicators won't have enough insurance to cover the damage, while farmers often have general liability insurance, which might not cover herbicide drift damage to a neighbour's crop, the association said in a news release.

As well, some Group 2 herbicides commonly used on cereal crops may persist in soil affecting potatoes the following season, the association said in a brochure. Group 2 herbicides can also persist in spray tanks that haven't been adequately cleaned, and even low levels can cause significant injury to potato crops.

The publication has the following advice:

- Understand the product you are spraying and follow the label recommendations.
- Know what crops are adjacent to the field you are spraying.
- Leave an unsprayed headland next to sensitive crops such as potato, until the wind is favourable.
- Know the wind speed and direction prior to application.
- Avoid spraying at high temperatures with low relative humidity.
- Keep spray application records.
- Use low-drift nozzles. Manage

air pressure to reduce the number of fine droplets. Maintain appropriate boom height. Manage ground speed to avoid boom bounce. Clean the spray tank thoroughly to avoid contamination.

- If using a custom applicator, ensure he or she is certified and understands the risks to non-target crops such as potatoes.

There are about 16 potato seed growers in Manitoba producing between 6,000 and 7,000 acres of seed annually, Kuhl said.

"It's a fairly intensive crop," he said. The seed farms manage a lot of different varieties. Most of the seed farms don't have a large acreage of any variety.

"It's a fantastic business... but we're trying to protect ourselves to make sure we're viable for years to come."

allan@fbcpublishing.com



It takes very little herbicide drift to reduce the germination of seed potato.

PHOTOS: ANDREW ROBINSON, NDSU

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FERTILIZER Continued from page 1



Wetlands may have to be restored to slow the flow of nutrients into Lake Winnipeg. FILE PHOTO

overloads in the water systems, how they manage their land might be playing a bigger role than previously thought.

"Despite this overall high efficiency and improving efficiency and running into net deficits in recent years, we don't see that in the ecological watershed response. We see a still increasing nutrient loading to Lake Winnipeg," Venema said.

Venema said the IISD research reinforces the findings of Ducks Unlimited research in the Broughton's Creek watershed. It concluded water quality monitoring doesn't properly measure the dynamics of rainfall run-off events.

"The other implication is that the phosphorus that's in the system from decades past is still being mobilized and is still loading up Lake Winnipeg," he said. "So despite the fact that we are efficient and getting more efficient, there is still a lot out there because of the size of the land mass and loadings from decades past (that) we think are getting mobilized under flooding events, and high rainfall events."

DU researchers also found that increased drainage is not only increasing the flow of water, it is mobilizing the nutrients it previously stored on the landscape.

"It is what is called 'Legacy P,'" Venema said. "There is so much in the system from decades past — some natural, some synthetic — that the only way to remove this from the system is by interception."

Venema said the research is reinforcing the need to curb and perhaps restore wetlands "to intercept those nutrients because they are old nutrients that are coming off the landscape and there are very few other ways to get at them and stop them."

Nutrient removal

He said the study also points to a need for methods that remove nutrients from the system permanently, rather than simply storing them, such as with biomass harvesting.

"There is a logic to managing our distributed storage systems to permanently remove



While farmers are using fertilizer efficiently today, drainage is mobilizing phosphorus already stored in the soil. PHOTO: ©THINKSTOCK

those nutrients and reapply them where they are needed," Venema said.

Manitoba Conservation Minister Gord Mackintosh told the day-long conference, called Keeping Water on the Land, the province will be announcing a new surface water strategy along with a new drainage policy within weeks.

"We are looking at that as a key shift in how the landscape of Manitoba must look," Macintosh said.

While crediting the leadership the agricultural community has shown towards nutrient management, Macintosh said one of the province's goals will be to curb ongoing and alarming loss of wetlands.

"How do we continue to enhance our agricultural productivity while not continuing to drain as we have in the past?" he said, noting the province has been working with KAP, Ducks Unlimited and the Manitoba Conservation Districts Association to overhaul drainage licensing.

Water storage

Macintosh said surface water management will work

towards using "seasonal wetlands" to temporarily store water. Drainage regulations will shift away from "culvert cops" that delay minor drainage maintenance such as culvert replacements towards a risk-based system that results in no net loss of wetlands.

He hinted that enforcement will be beefed up to curb illegal drainage. "In concert with the risk-based approach we are looking as well at the consequences that are currently there and what might speak more effectively," he said.

As well, Macintosh said the federal and provincial governments are drafting an environmental goods and services initiative, under which farmers receive incentives and compensation for maintaining wetlands under the Growing Forward 2 program.

Macintosh told the conference that if Manitoba has any hope of achieving co-operation between the jurisdictions contributing towards the nutrient overloads in Lake Winnipeg, it must be seen as a leader in water management.

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Conservation agriculture will play a key role in feeding future populations

Conference told that by employing permaculture, cover crops, strategic rotation and reduced tillage, small landowners can generate surpluses and contribute to food security

By Shannon VanRaes
CO-OPERATOR STAFF

Sarah Jaibes isn't a soil scientist, or an international development expert, but she knows a lot about how to make small farms work and what it will take to feed nine billion people by 2050.

The Zimbabwean farmer became involved in conservation agriculture in 2009, after rising inflation made it difficult to live on her husband's teaching salary. This method of low-input agriculture has the potential to increase food production and change lives, she said at the Canadian Foodgrains Bank's recent Fighting Hunger conference in Winnipeg.

"Conservation agriculture increases yields in small pieces of land, it improves food security... it enhances human dignity," said Jaibes.

On a quarter-hectare of land, or just over half an acre, Jaibes grows peanuts, corn and mangoes using cattle manure as fertilizer. In her first year she grew 15 bags of produce, but by her third year she was producing 22 bags of produce, enough to supplement both her family's income and diet.

"Small-scale farmers can also work to add value to products,



Sarah Jaibes is a Zimbabwean farmer practising conservation agriculture.

PHOTO: SHANNON VANRAES

and help their communities, the orphans and the vulnerable people," she said.

And Jaibes is far from alone when it comes to promoting small-scale farming and low-input agriculture as an integral part of increasing food production and distribution.

"We have seen this technology work for smallholder farmers in Latin America, in Brazil particularly," said Saidi Mkomwa of the African Conservation Tillage Network.

"There is strong scientific evidence it works."

Intensified production won't be limited to large operations in the global effort to increase food production, and small shareholder farms can employ methods that conserve water and fertilizer, and reduce reliance on fossil fuels, he said.

"My view is we will be able to feed nine billion people, but we need to intensify the way farming is done," said Mkomwa. "The big change is that we should not

depend on external inputs, but rather we need to revert to using less external inputs."

It takes 1.6 litres of water to make one kilogram of fertilizer, not to mention copious amounts of diesel fuel, the conservation tillage advocate said. But techniques such as permaculture, cover crops, strategic rotation and reduced tillage can increase production without increasing costs for the farmer or jeopardizing the environment, he said.

Increasing the yields of small shareholder farmers will also help alleviate poverty, said John Hoddinott of the International Food Policy Research Institute.

As yields grow, so do incomes, followed by greater commerce and enriched economies, he said.

"Feeding the world is not merely a question of production," said Hoddinott. "It is as much, if not more so, a question of distribution, ensuring that everyone has the ability to access the food that is produced."

In many areas food is available, but those who need it cannot afford to buy it, he said.

"Over time we need to shift away from thinking about food aid and production, to food assistance and ensuring people

actually have access to food," Hoddinott said.

Despite rising food costs, and a recent famine in Somalia, Hoddinott and others are cautiously optimistic about the future.

"In the last 20 years, the number of people who receive or consume a minimally adequate diet, at least in terms of calories and protein, has increased by 1.6 billion people," he said. "Growth in food production has exceeded population growth. Globally, in terms of calories, in terms of protein, we now produce enough food to feed everyone in the world."

Political action is also needed to ensure food security for a growing population, said Mkomwa.

"Some of the benefit of sustainable food production goes beyond the farm, so I think there is a role for national governments to subsidize by increasing risk management, to kick-start the process and support the process," he said.

Better food policies are needed, and there is a lot of hard work to be done, said Hoddinott.

"It will require many people to make sacrifices, but it's not impossible," he said.

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FESTIVALS

Contact us with your event, dates, location and contact info at news@fbcpublishing.com.

June 27-29: Dauphin Agricultural Fair. Call 204-638-4428 or visit www.dauphinagsociety.com.

June 27-30: Dauphin's Countryfest. Visit www.countryfest.ca or call 1-800-361-7300.

June 29: MacGregor/North Norfolk Fair. Call 204-274-2273 or email macgregorfair@hotmail.com.

June 29-30: Treherne Fair. Call 204-723-2275.

June 30-July 1: Glenboro Fair. Call 204-827-2661.

July 2-3: Rivers Fair. Call 204-328-7512 or 204-826-2810.

July 5: Crystal City/Clearwater Fair. Call 204-873-2661 or email deankb@mts.net.

July 5-7: Portage, the 141st Portage Industrial Exhibition, Portage la Prairie. Call 204-857-3231 or visit www.portageex.com.

July 5-7: Carberry Fair and Races. Call 204-834-2786 or email donna_sagin@cargill.com.

July 6-7: Manitou Fair. Call 204-246-2105 or email manitouagsociety@hotmail.ca.

July 6-7: Rossburn Fair and Exhibition. Call 204-859-0051.

July 10-14: Winnipeg Folk Festival, Birds Hill Provincial Park. Visit www.winnipegfolkfestival.ca or call 204-231-0096.

July 11-13: Carman Country Fair and 4-H Manitoba FunFest. Call 204-745-2226 or visit www.carmanfair.ca.

July 11-14: St. Pierre-Jolys Frog Follies and Agricultural Fair. Call 204-291-4630 or visit www.frogfollies.com.

July 12-14: Gilbert Plains/Grandview Fair and Rodeo. Visit www.gpgvagsociety.mfbiz.com.

July 12-14: Triple S Fair and Rodeo, Selkirk. Call 204-485-4854 or visit <http://selkirkfairandrodeo.com>.

July 13-14: Minnedosa Fair. Call 204-867-7503 or email minnedosaagsoc@gmail.com.

July 13-14: Souris/Glenwood Fair. Call 204-721-4168 or email sourisagsociety@gmail.com.

July 14-15: Oak River Fair. Call 204-566-2281 or email ashbla2@hotmail.com.

July 16: Strathclair Fair. Call 204-365-2579 or email krothnie@hotmail.com.

July 17: Shoal Lake Fair. Call 204-759-2280 or email cluhowy@hotmail.com.

July 18: Hamiota Fair. Call 204-764-2642 or email gkwilson@mts.net.

July 18-21: Manitoba Stampede and Exhibition, Morris. Call 1-866-657-4741 or visit www.manitobastampede.ca.

July 19: Harding Fair. Call 204-838-2241 or email hardingfair@inethome.ca.

July 19-21: Arborg Fair and Rodeo. Call 204-642-2700 or email lenoreolafson@hotmail.com.

July 19-21: Neepawa Lily Festival. Call 1-866-893-0381 or visit <http://lilyfestival.com>.

July 20: Springfield Country Fair, Dugald. Visit www.springfieldagsociety.com.

July 20: Oak Lake Fair. Call 204-855-2030 or email oaklakeagsociety@yahoo.ca.

Safety group told federal funds must be matched

Federal government asks group to find cost-sharing partners

By Lorraine Stevenson
CO-OPERATOR STAFF

For the Canadian Agricultural Safety Association 'growing forward' means finding new funding partners to match government contributions.

"The government has put out the challenge to CASA that if farm safety is important, they're willing to support it, but other groups also have to be at the table," said executive director Marcel Hacault.

The association, which received most of its money from Growing Forward until this year, applied in March for funding under the agri-competitiveness stream of Growing Forward 2, but hasn't been told how much it will receive.

"The one thing we do know for sure is their funding model has

"The government has put out the challenge to CASA that if farm safety is important, they're willing to support it, but other groups also have to be at the table."

MARCEL HACAULT
CASA executive director

changed," said Hacault. "They are looking for cost sharing."

The move makes sense because "if safety is important, one of the good indicators for government is there are other industries helping support it," he said.

But this change does present "a bit of a dilemma" for the Winnipeg-based organization, he added, noting the association receives considerable in-kind support from agribusinesses and others.

"We're encouraging them to recognize some of that as cash, but I don't think it meets their definition," he said.

"When we do receive funding, they are expecting agribusiness and safety supporters out there to match government funds. Or the other way around, government will match what CASA can garner."

The funding change will be cut back to grants for developing farm safety resources, but won't affect core programming, he said.

"We're really going to focus on the Canada Farm Safe plan

and develop some additional resources to make it as user friendly as possible," he said. "That's a major part of our work."

It will also continue supporting Progressive Agricultural Safety Days, maintaining the injury surveillance program, and supporting its ongoing signature event, Canada Farm Safety Week, held every year in March.

Farm Credit Canada also continues to provide financial assistance for safety-training programs for farm managers and employees, he said.

The organization, led by a seven-person board of directors and a 32-person council, has about 100 individuals, organizations, governments and corporations as members.

lorraine@fbcpublishing.com

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Cargill's High River beef plant closed, not flooded

Calgary Stampede officials say the show will go on come "hell or high water" — they already have the water

Staff

Massive flooding in the High River area of southern Alberta hasn't yet directly hit one of the largest beef-packing plants in the heartland of Western Canada's beef industry.

However, with many roads cut or washed out and water service disrupted, Cargill Meat Solutions' cattle slaughter and beef-processing plant, just north of the community of High River, is closed for business — and a prolonged closure has the potential to weigh on Canadian cattle producers' markets.

The plant, which normally employs about 2,000 people processing up to 4,500 cattle per day, is "not directly being impacted by flooding in the area," Cargill spokesperson Brigitte Burgoyne said in an email June 22.

However, she said, many plant employees' homes are directly affected, as are roads in the region, and "our primary focus has been to keep our employees safe and tending to their personal situations."

In any case, she added, the "temporary disruption of fresh water" in the area would impact the company's ability to process cattle. The plant was not processing cattle Friday, she said, and Cargill "will assess the situation on a daily basis" to determine how soon processing can restart again.

The company "will continue to work with the community to help as best we can," she said, noting the plant cafeteria has been kept open for use by emergency crews.

Cargill, she said, "is working with authorities at all level of government to act in the best interest of those impacted by this flooding situation."



The grounds of the Calgary Stampede remain under water after they were flooded in Calgary, Alberta June 22, 2013. The flooding Bow River shut down all of the centre of Calgary, Canada's oil capital, and will remain closed until mid week. The flood forced tens of thousands of residents to leave their soggy homes. PHOTO: REUTERS/MELISSA RENWICK



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WHAT'S UP

Please forward your agricultural events to daveb@fbcpublishing.com or call 204-944-5762.

July 9-12, 15-19: Manitoba Crop Diagnostic School daily workshops, Ian N. Morrison Research Farm, Carman. For more info visit www.cropdiagnostic.ca or call 204-745-5663.

July 10: Manitoba Forage Seed Association buffet breakfast and crop tour, registration at 8 a.m., Royal Canadian Legion, Beausejour. For info call 204-376-3309 or visit www.forageseed.net.

July 10: Manitoba Agricultural Hall of Fame induction ceremony, 1:30 p.m., Winkler Mennonite Church, 31 Willowdale Cres., Winkler. For more info email info@manitobaaghalloffame.com or call 204-728-3736.

July 22: Organic and Ecological Farming Research Tour, 5:30 to 8:30 p.m., University of Manitoba Research Farm, Carman. For more info email m_entz@umanitoba.ca or call 204-474-6077.

July 23-24: Dairy Farmers of Canada annual general meeting, Fairmont Royal York, 100 Front St. W., Toronto. For more info call 613-236-9997 or visit www.dairyfarmers.ca.

July 29: Glenlea Long-Term Organic Study Research Tour, 6:30 to 8 p.m., Glenlea. For more info email m_entz@umanitoba.ca or call 204-474-6077.

Aug. 7-8: Manitoba Pasture Tour, Hecla. Details TBA. Contact your local MAFRI GO office for more info.

Aug. 8: Manitoba Pasture Tour, 9:30 a.m. to 6:10 p.m., departing from Meadow Lea Hall (PR 227 and 248) north of Marquette. For more info or to register (deadline Aug. 2) call 204-622-2006 or email Marylou.goshulak@gov.mb.ca.

LIVESTOCK MARKETS

EXCHANGES: JUNE 21, 2013 | \$1 Cdn: \$.9551 U.S. | \$1 U.S.: \$1.0470 Cdn.

Cattle Prices

(Friday to Thursday) **Winnipeg** June 21, 2013

SLAUGHTER CATTLE	
Steers & Heifers	—
D1, 2 Cows	67.00 - 74.00
D3 Cows	58.00 - 67.00
Bulls	78.00 - 89.00

FEEDER CATTLE (Price ranges for feeders refer to top-quality animals only)	
Steers	(901+ lbs.) 110.00 - 117.00 (801-900 lbs.) 114.00 - 123.00 (701-800 lbs.) 120.00 - 130.00 (601-700 lbs.) 125.00 - 137.00 (501-600 lbs.) 125.00 - 140.00 (401-500 lbs.) 130.00 - 140.00
Heifers	(901+ lbs.) — (801-900 lbs.) 107.00 - 114.00 (701-800 lbs.) 110.00 - 117.00 (601-700 lbs.) 110.00 - 122.00 (501-600 lbs.) 115.00 - 128.00 (401-500 lbs.) 115.00 - 135.00

SLAUGHTER CATTLE (\$/cwt)	Alberta South	Ontario
Grade A Steers (1,000+ lbs.)	\$ 121.00	\$ 114.46 - 133.71
Grade A Heifers (850+ lbs.)	—	105.51 - 129.62
D1, 2 Cows	70.00 - 83.00	59.48 - 80.34
D3 Cows	60.00 - 73.00	59.48 - 80.34
Bulls	85.88	75.78 - 96.01
Steers	(901+ lbs.) \$ 110.00 - 127.00 (801-900 lbs.) 118.00 - 132.00 (701-800 lbs.) 127.00 - 141.00 (601-700 lbs.) 133.00 - 153.00 (501-600 lbs.) 140.00 - 161.00 (401-500 lbs.) 145.00 - 165.00	\$ 123.10 - 133.28 123.43 - 139.16 125.46 - 143.46 121.82 - 149.58 110.41 - 151.20 125.15 - 163.74
Heifers	(901+ lbs.) \$ 105.00 - 117.00 (801-900 lbs.) 110.00 - 123.00 (701-800 lbs.) 115.00 - 128.00 (601-700 lbs.) 118.00 - 133.00 (501-600 lbs.) 120.00 - 138.00 (401-500 lbs.) 125.00 - 145.00	\$ 112.81 - 119.96 116.21 - 123.56 119.06 - 130.60 119.91 - 136.18 121.14 - 145.56 129.32 - 151.08

Futures (June 21, 2013) in U.S.					
Fed Cattle	Close	Change	Feeder Cattle	Close	Change
June 2013	119.95	0.10	August 2013	144.42	-1.05
August 2013	120.00	0.93	September 2013	146.75	-1.00
October 2013	123.85	1.00	October 2013	148.65	-0.70
December 2013	125.92	0.50	November 2013	150.15	-1.07
February 2014	127.02	0.32	January 2014	150.25	-0.80
April 2014	128.45	0.35	March 2014	161.62	-0.13

Cattle Slaughter			Cattle Grades (Canada)		
	Week Ending June 15, 2013	Previous Year		Week Ending June 15, 2013	Previous Year
Canada	48,740	56,155	Prime	577	617
East	12,660	11,408	AAA	23,245	24,499
West	36,080	44,747	AA	17,923	21,779
Manitoba	NA	NA	A	1,110	1,313
U.S.	644,000	655,000	B	742	847
			D	4,471	6,146
			E	42	416

Hog Prices

(Friday to Thursday) (\$/100 kg) **Source: Manitoba Agriculture**

MB. (\$/hog)	Current Week	Last Week	Last Year (Index 100)
MB. (All wts.) (Fri-Thurs.)	199.00 E	191.52	187.38
MB. (Index 100) (Fri-Thurs.)	183.00E	176.47	172.62
ON (Index 100) (Mon.-Thurs.)	192.47	183.59	179.23
P.Q. (Index 100) (Mon.-Fri.)	193.73	185.24	182.53

Futures (June 21, 2013) in U.S.		
HOGS	Close	Change
July 2013	100.25	1.60
August 2013	98.27	0.97
October 2013	85.45	0.90
December 2013	82.25	0.65
February 2014	84.20	0.70

Other Market Prices

Sheep and Lambs			
\$/cwt	Winnipeg (head) (wooled fats)	Toronto	SunGold Specialty Meats
Ewes Choice	—	41.09 - 64.51	10.00
Lambs (110+ lb.)	—	116.61 - 125.81	
(95 - 109 lb.)	—	122.38 - 134.62	
(80 - 94 lb.)	—	104.17 - 135.98	
(Under 80 lb.)	—	106.06 - 152.01	
(New crop)	—	—	

Chickens		Eggs	
Minimum broiler prices as of May 23, 2010		Minimum prices to producers for ungraded eggs, f.o.b. egg grading station, set by the Manitoba Egg Producers Marketing Board effective June 12, 2011.	
Under 1.2 kg	\$1.5130	New	Previous
1.2 - 1.65 kg	\$1.3230	A Extra Large	\$1.8500
1.65 - 2.1 kg	\$1.3830	A Large	1.8500
2.1 - 2.6 kg	\$1.3230	A Medium	1.6700
		A Small	1.2500
		A Pee Wee	0.3675
		Nest Run 24 +	1.7490
		B	0.45
		C	0.15

Turkeys		Goats	
Minimum prices as of June 23, 2013		Winnipeg (head) (Fats)	
Broiler Turkeys (6.2 kg or under, live weight truck load average)		Toronto (\$/cwt)	
Grade A	\$2.025	Kids	160 - 265.00
Undergrade	\$1.935	Billys	—
Hen Turkeys (between 6.2 and 8.5 kg liveweight truck load average)		Mature	
Grade A	\$2.010		88.05 - 221.16
Undergrade	\$1.910		

Tom Turkeys		Horses	
Minimum prices as of June 23, 2013		Winnipeg (\$/cwt)	
Light Tom/Heavy Hen Turkeys (between 8.5 and 10.8 kg liveweight truck load average)		Toronto (\$/cwt)	
Grade A	\$2.010	<1,000 lbs.	20.00 - 48.28
Undergrade	\$1.910	1,000 lbs.+	22.00 - 46.00

Tom Turkeys	
(10.8 and 13.3 kg, live weight truck load average)	
Grade A	\$1.910
Undergrade	\$1.825

Prices are quoted f.o.b. farm.

COLUMN

Feeder prices up as local demand meets smaller supply

Slaughter cattle supplies and demand remained solid

Terryn Shiells
CNSC



Feeder cattle prices at auction yards across the province of Manitoba brought in steady to strong prices during the week ended June 21.

Smaller numbers helped to keep prices propped up, while a pickup in demand from local buyers was responsible for some prices moving higher.

Scott Anderson, with Winnipeg Livestock Sales, said the demand seemed to be there, though the front row, where the buyers sit, was thinner than usual.

Fewer people were out purchasing cattle because there aren't as many cattle up for sale, making it difficult to make up big loads.

"It's very tough to make loads work now, kind of like pulling teeth a little bit," said Anderson.

A good number of local buyers were out during the week, though not many grass cattle were bought locally because most producers are done buying and have them all out on pasture already.

There were also some buyers from the East and elsewhere in the West, Anderson said, noting "a lot of cattle went west, some went east; it seemed like it was kind of an even split."

There were some earlier concerns eastern demand would slow down because of expensive transportation costs, but Anderson said they're still buying cattle from Manitoba.

"I think some of the trucking rates are lower now because guys will take whatever they can get; it's not like they're getting lots of phone calls for cattle," he said. "I think some of the (eastbound) trucks will just take whatever they can get, even if it means going home with half a load."

The number of feeder cattle that came onto the market was steady compared to the week prior, with most of Manitoba's auction yards showing slightly lower numbers — but the amount seen at the sale in Winnipeg exceeded expectations, Anderson said.

"We ended up with just over 500 cattle, which was about double what we thought we would get," he said.

Slaughter cattle numbers were strong during the week, Anderson said, adding that Winnipeg saw about 250 butcher cows. Other

AUCTION YARD SCHEDULES

Ashern	Closed until August
Killarney	Closed for summer
Gladstone	Biweekly sales until July 9, then closed until Aug. 19
Grunthal	Weekly sales throughout summer
Ste. Rose	Closed for the summer
Winnipeg	Sales throughout summer
Brandon	Sales every Tuesday throughout summer
Virden	Sales every Wednesday throughout summer

"I think some of the trucking rates are lower now because guys will take whatever they can get."

SCOTT ANDERSON
Winnipeg Livestock Sales

auction yards also reported good slaughter numbers.

Of the cattle that came onto the market, most sold for steady to stronger prices compared to the week prior amid good demand.

Anderson noted the slaughter market was up about \$1-\$2 per hundredweight compared to recent prices.

Prices on both sides of the market, feeder and slaughter, are expected to stay steady throughout the summer as little movement is expected with only a handful of auction yards holding sales. (See the schedule table for full details.) But there's some optimism that prices will start to see some recovery heading into the fall.

"It seems like maybe the yearlings are going to be all right — nothing to say it's going to be a disaster," Anderson said. "If feed prices come down a little bit and if there's not quite as many cattle around, that should help keep the price up."

Terryn Shiells writes for Commodity News Service Canada, a Winnipeg company specializing in grain and commodity market reporting.

NEWS

Senate leader says no more Farm Bill extensions

WASHINGTON / REUTERS The Republican-controlled U.S. House of Representatives needs to solve its Farm Bill impasse by enacting the Senate's bipartisan bill, Majority Leader Harry Reid said June 24. The House defeated its

own Farm Bill last week — the first time such a bill has failed in a House vote — and analysts have said a short-term extension of the 2008 farm law would be the easiest solution.

On the Senate floor, Reid said "the Senate will not pass another temporary Farm Bill extension."

The Senate Farm Bill, passed on a 66-27 vote on June 10, would save \$23 billion over 10 years with \$4 billion trimmed from food

stamps for the poor. The House bill proposed \$40 billion in savings with half of it from food stamps.

Congress, months late in writing a new farm law, extended the 2008 law until Sept. 30. Without action by then, farm supports would revert to the sky-high levels of an underlying "permanent" law.

One of the first effects at the consumer level could be a doubling of the price of milk at the grocery store.

Looking for results? Check out the market reports from livestock auctions around the province. » PAGE 14

GRAIN MARKETS

COLUMN

Watch for impact from StatsCan, USDA acreage reports

The loonie's slip spurred some interest in canola

Phil Franz-Warkentin
CNCS



For three-times-daily market reports from Commodity News Service Canada, visit "Today in Markets" at www.manitobacooperator.ca.

ICE Futures Canada canola contracts saw some choppy activity during the week ended June 21, but managed to post gains overall. The relative strength in canola came despite losses in the U.S. soy complex.

Canola is usually a follower of the soy complex, so when the two markets show some divergence there must be an explanation. Tight old-crop supplies and uncertainty over new-crop production are somewhat supportive for canola, but those issues are also at play in soybeans. Positioning ahead of the Statistics Canada acreage report on Tuesday (June 25) was also cited as a supportive influence during the week, but the U.S. Department of Agriculture releases its own acreage report on Friday (June 28) and the U.S. numbers will have a much larger impact on the oilseeds in general when they come out.

The gains in canola have little, if anything, to do with the actual supply/demand fundamentals in the commodity. Rather, broad moves in the global financial markets and the resulting weakness in the Canadian dollar provide the most likely explanation.

Foreign exchange

Comments by U.S. Federal Reserve chairman Ben Bernanke on June 19, indicating that the Fed may soon slow down its monetary stimulus measures, provided the catalyst for the sell-off in many so-called risky assets — including the Canadian dollar. Disappointing domestic inflation data contributed to the weaker tone in the currency, and over the course of the week the Canadian dollar lost over two cents compared to its U.S. counterpart.

When the Canadian dollar was trading at US98.34 cents on June 14 and November canola closed at C\$548.50, that translated to US\$539.40 per tonne. By June 17, that same tonne of canola was up to C\$555.90 on the ICE platform. However, with the currency down to US95.61 cents, it was only worth US\$531.50. Domestic crush margins and international exports are all based off of the foreign exchange, and the fact that canola is

looking cheaper when priced in U.S. dollars generated some underlying interest.

While the softer Canadian currency is supportive for Canadian exports, U.S. commodities did see some pressure from the stronger U.S. dollar internationally. Soybeans were down on the week, while corn and wheat moved higher.

Improving U.S. crop conditions contributed to the declines in soybeans, although speculative profit-taking likely played a larger role. U.S. corn crops are also benefiting from some better weather, but the lateness getting the crop in the ground this year has led to expectations for yield losses.

Production uncertainty should help underpin U.S. wheat values in the near term as well. Farmers in the southern Plains are in the early stages of harvesting this year's winter wheat crop, and rainfall has caused delays in many cases. Farther north, there are concerns that some intended spring wheat acres in North Dakota and Minnesota will go unseeded.

U.S. corn acres are generally expected to be down by about two million or three million from the last report due to adverse seeding conditions, while soybean area could be a little larger as some area shifted out of corn and into beans. However, the beauty of U.S. preventive plantings programs may make it more worthwhile for some growers to not seed anything rather than try to get a return from switching into soybeans at this late stage.

In addition to updated acreage estimates, USDA also releases its quarterly stocks report on June 28. The report will show supplies of the major U.S. grains and oilseeds as of June 1 and could lead to some fireworks in the futures if there are any surprises.

Phil Franz-Warkentin writes for Commodity News Service Canada, a Winnipeg company specializing in grain and commodity market reporting.

Export and International Prices

All prices close of business June 20, 2013

Last Week Week Ago Year Ago

WHEAT

Chicago wheat (nearby future) (\$US/tonne)	257.36	251.85	243.13
Minneapolis wheat (nearby future) (\$US/tonne)	299.06	298.33	309.99

COARSE GRAINS

Chicago corn (nearby future) (\$US/tonne)	265.06	253.35	230.91
Chicago oats (nearby future) (\$US/tonne)	255.96	264.72	203.77

OILSEEDS

Chicago soybeans (nearby future) (\$US/tonne)	550.18	554.87	528.50
Chicago soyoil (\$US/tonne)	1,067.22	1,054.87	1,098.31

Winnipeg Futures

ICE Futures Canada prices at close of business June 21, 2013

BARLEY

Last Week

Week Ago

July 2013	244.00	244.00
October 2013	194.00	194.00
December 2013	199.00	199.00

CANOLA

Last Week

Week Ago

July 2013	605.70	598.60
November 2013	555.90	548.50
January 2014	560.10	551.10

Special Crops

Report for June 24, 2013 — Bin run delivered plant Saskatchewan

SPOT MARKET		SPOT MARKET	
LENTILS (Cdn. cents per pound)		OTHER (Cdn. cents per pound unless otherwise specified)	
Large Green 15/64	25.50 - 26.50	Canaryseed	25.75 - 27.25
Laird No. 1	23.75 - 25.50	Oil Sunflower Seed	—
Eston No. 2	18.75 - 20.75	Desi Chickpeas	25.70 - 27.00
FIELD PEAS (Cdn. \$ per bushel)		BEANS (Cdn. cents per pound)	
Green No. 1	14.80 - 17.50	Fababeans, large	—
Medium Yellow No. 1	7.40 - 9.75	Feed beans	—
FEED PEAS (Cdn. \$ per bushel)		No. 1 Navy/Pea Beans	—
Feed Pea (Rail)	6.25 - 8.60	No. 1 Great Northern	—
MUSTARDSEED (Cdn. cents per pound)		No. 1 Cranberry Beans	—
Yellow No. 1	38.75 - 40.75	No. 1 Light Red Kidney	—
Brown No. 1	35.75 - 38.75	No. 1 Dark Red Kidney	—
Oriental No. 1	29.20 - 30.75	No. 1 Black Beans	—
		No. 1 Pinto Beans	—
		No. 1 Small Red	—
		No. 1 Pink	—

Source: STAT Publishing

SUNFLOWERS

Fargo, ND

Goodlands, KS

Report for June 21, 2013 in US\$ cwt

NuSun (oilseed)	FH 23.20/LH 23.00	NQ
Confection	32.00* Call for details	—

Source: National Sunflower Association

CGC security changes coming late in 2013

The grain commission is looking for a company to provide the insurance policy that will form the foundation of the program

By Allan Dawson
CO-OPERATOR STAFF

The Canadian Grain Commission (CGC) hopes to implement a new insurance program to protect western farmers when grain companies default on payments later this year.

"It's going to be cheaper for the industry in general and that will mean less cost handed out to producers," CGC spokesman Remi Gosselin said in an interview June 21.

"The final look of the program has not been defined because we're still going through a request for qualifications process to potential suppliers of this aggregate insurance model."

Program details could be announced this fall.

The new insurance program will replace the CGC's current protection scheme, which requires licensed grain companies to post security through letters of credit or bonds to cover what they owe farmers for the grain they've delivered.

The CGC has talked about changing its security program for almost 30 years. During that time there have been several high-profile grain company failures where the security posted with the CGC failed to cover all of what farmers were owed.

Adding to the risk in recent years is volatile grain prices, making it more difficult to monitor what companies owe farms. Posting security also ties up companies' working capital.

The insurance program

will see grain companies pay a premium based on their risk of failing, Gosselin said. The premiums will be pooled and used to pay farmers when a grain company goes down owing farmers money.

"It's a more streamlined model and less expensive and it reduces the risk of security shortfalls to producers," he said.

The federal government has published a notice seeking companies to apply to offer the insurance program.

"The Master Insurance Policy Agreement must cover up to 95 per cent coverage to producers determined to be eligible for compensation by the CGC in the event of a licensee failure up to an annual aggregate limit of \$100 million," the government's notice states.

Recent amendments to the Canada Grain Act gives the grain commission the authority to revamp its security program for western grain farmers, Gosselin said.

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CCA hopeful resubmitted irradiation petition will succeed

The debate over whether to permit irradiation of beef products begins again

By Lorraine Stevenson
CO-OPERATOR STAFF

The waiting has begun all over again for the Canadian Cattle-men's Association (CCA) as it renews efforts to persuade Health Canada to approve irradiation for beef.

The CCA submitted paperwork in early May asking the federal agency to restart the approval process for beef irradiation in Canada, repeating a similar request in a 1998 petition.

Then, the association sought irradiation as an option for fresh or frozen ground beef in its final packaging for the control of E. coli 0157:H7. However, this time, the petition is for all types of beef products so that its use can be expanded to other beef products, said Mark Klassen, director of technical services with the CCA.

"This isn't a short process," said Klassen, adding it will take at least a year for Health Canada to process the application.

The U.S. Food and Drug Agency (FDA) has evaluated the safety of irradiated food for more than 30 years and it seemed the process was safe. Beef, pork and poultry are among nearly a dozen food products permitted to be irradiated in the U.S.

The CCA's request has been on hold for 15 years, with the federal government stating last fall there were no plans to revisit the issue.

A scientific review of CCA's initial submission was completed by Health Canada in 2000, and at that time a recommended Canadian code of practice for food irradiation was also developed. But the matter was shelved after public consultations in 2003 revealed considerable consumer unease with food irradiation.

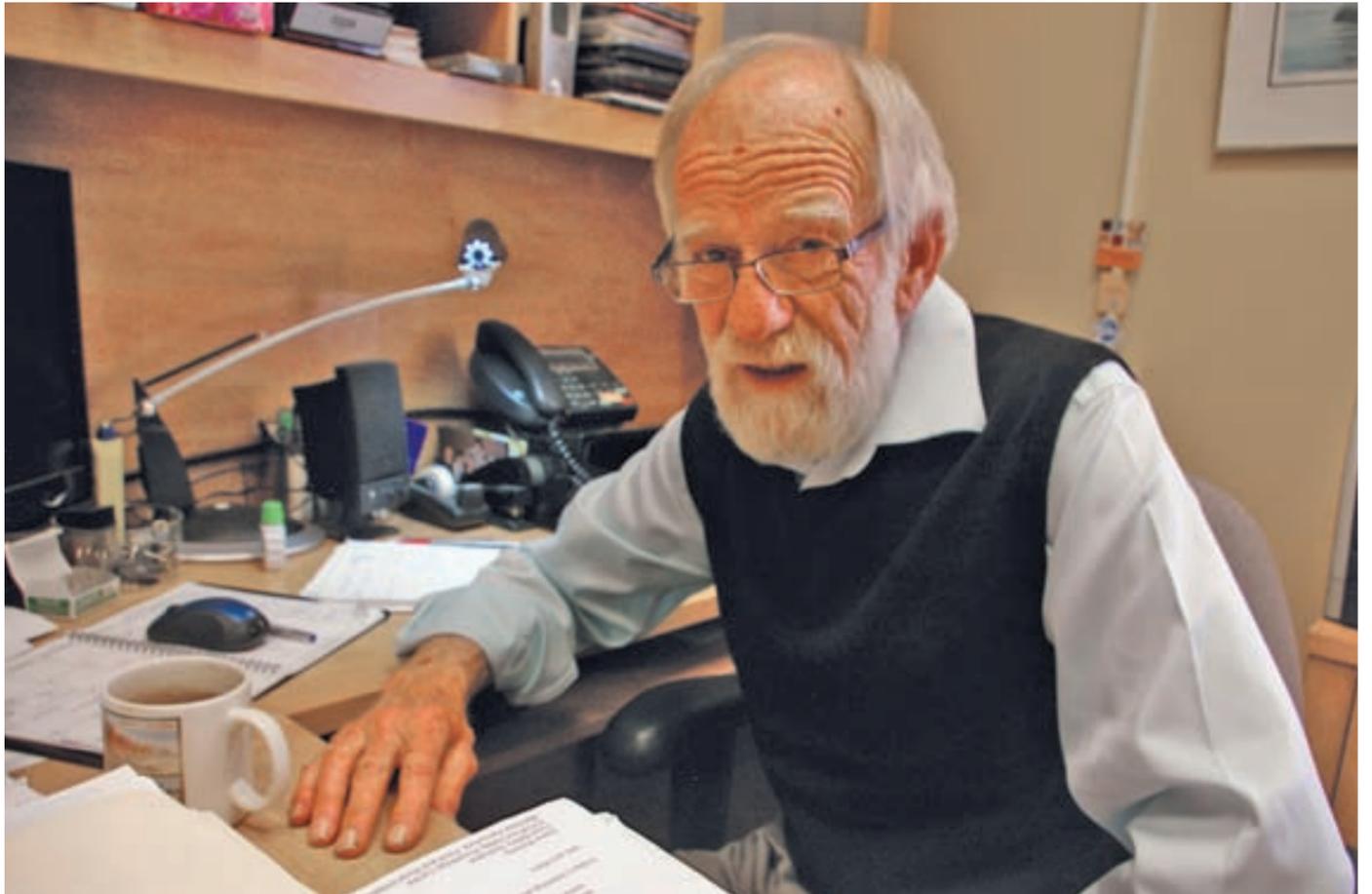
He's hopeful there may be less opposition this time.

Klassen also said time lapse may be to their advantage. It was consumer concern that halted final approval of the previous application, not questions about the safety or efficacy of irradiation technology.

"Sometimes there's no substitute for time," he said. "It's my impression that society is becoming more comfortable with technology of all sorts."

But opposition will be expressed again. Groups and individuals who continue to mistrust the technology have already begun urging Canadians via online posts and letter-writing campaigns to tell federal authorities to block approval.

However, there are also signs some Canadians would choose irradiated food products. A 2012 Angus Reid poll conducted by the Consumers Association of Canada last logged 45 per cent of respondents saying they were 'very concerned' about the presence of foodborne, illness-causing bacteria in both chicken, hamburger and deli meat. Eleven per cent said they were 'very likely' and 43 per cent 'somewhat likely' to con-



University of Manitoba food scientist Rick Holley was the principal investigator in a recently completed study on the effectiveness of low-dose electron-beam treatment to eliminating harmful bacteria in beef trim used to make ground beef. Holley also oversaw a panel of taste testers to see if the treatment changed the colour, aroma, texture, juiciness or flavour of the meat. PHOTO: LORRAINE STEVENSON

"Sometimes there's no substitute for time. It's my impression that society is becoming more comfortable with technology of all sorts."

MARK KLASSEN
Canadian Cattlemen's Association
director of technical services

sider irradiated meat as a choice for their household if it was less likely to be contaminated with pathogens.

New research

The CCA's 2013 petition is also supported with updated research, including findings from a study completed this spring at the University of Manitoba showing a very low dose of electronic beam irradiation is effective at killing pathogens of concern.

University of Manitoba food scientist and principal investigator Rick Holley said a treatment of one kGy, which is the unit used to measure absorbed dose, was shown to effectively control both E. coli 0157:H7 and non-0157 VTEC E. coli as well as salmonella in fresh beef trim (which is used in ground beef production).

"Our intent here was to determine what effect would the lowest practical dose have upon elimination of

threat or risk with this group of pathogenic organisms," he said.

The study also used a sensory panel to determine whether the same low-dose e-beam treatment would affect sensory qualities. The findings show there are no detectable changes to aroma, texture, juiciness and flavour and only very minor changes in colour that are eliminated when meat is cooked, Holley said.

A panel of taste testers could not tell which patties were treated, even when made with 100 per cent irradiated beef, he said, adding there was also improved shelf life of fresh meat.

"Within this single study, with the equipment that we were using, and at that level (of treatment) we found essentially suitable elimination of the pathogenic bacteria and we weren't able to see that there were detectable effects on the cooked meat," Holley said.

Irradiation is approved in the U.S. for use in meat at absorbed doses up to seven kGy. Irradiation has been scientifically deemed safe for food use at levels much higher — up to 60 kGy.

Irradiation is approved by Health Canada for potatoes, onions, wheat, flour, whole wheat flour, whole and ground spices, and dehydrated seasoning preparations but the technology is not widely used. According to Health Canada's website, the main

use of irradiation in this country has been on spices.

Critics

Klassen said while the technology will continue to have its critics, the industry believes clear labelling of irradiated beef and consumer education as key to these products eventually gaining consumer acceptance.

The CAC's survey notably also found the majority of Canadians (57 per cent) doesn't understand what food irradiation is.

"We'll do what we can through labelling of these products so consumers can make an informed choice," he said, adding that pasteurization was suspected for many years after the milk industry began using it too.

"Where we can get support from the medical community and the scientific community helping explain this will potentially shorten that time for acceptance," he said.

"I think the concerns that are understandably present for some consumers relate to the fact that irradiation seems like something new, even though it has been around for more than 100 years," he added.

It was in 1905 that patents were first issued to U.S. and British scientists who were then proposing the use of ionizing radiation to kill bacteria in food.

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With big U.S. pork buy and diet shift, China now asks: 'Where's the Beef?'

Rising consumption of beef is causing entrepreneurs to seek higher imports

By Dominique Patton
and Niu Shuping
DACHANG, CHINA / REUTERS

With more money in their pockets, millions of Chinese are seeking a richer diet and switching to beef, driving imports to record levels and sending local meat firms abroad to scout for potential acquisition targets among beef farmers and processors.

The need to feed the world's most populous nation has seen Chinese firms gobble up foreign dairy, sugar and cereal producers, and Shuanghui International's \$4.7-billion bid for top U.S. pork producer Smithfield Foods is just the country's latest food 'land grab.'

Beef could be next on the menu as Chinese opt for the protein-rich meat, which is seen as a higher-quality product than pork, the nation's staple. While pork and poultry remain China's meats of choice, beef consumption is growing rapidly as hot-pot restaurants, Korean barbecue joints and burger bars set up across the country.

Chinese consumers are also more wary about cheaper local meat products after a series of recent food safety scandals — from bird flu to rotting pig carcasses in Chinese rivers.

All of which is making imports more affordable — good news for major beef producers such as Australia and New Zealand — and encouraging Chinese firms to look overseas to secure future supplies.

"There are many companies closely following this market and looking for the right time to come in. One of the major reasons is food safety," said a consultant who advises Chinese agribusinesses.

One state-owned agribusiness firm is in talks with a foreign beef supplier and eyeing future overseas production, he said, asking not to be named because the information is commercially sensitive.

Chongqing Grain Group, a state-owned business that has expanded aggressively overseas in recent years, plans to invest in breeding beef cattle in Australia, its president Hu Junlie said, without giving further details. Tianjin Dawnrun Beef, too, has been buying up rivals to expand its business and is looking to breed cattle in Australia, said a company official.

A struggling industry

China's beef imports soared in January-April to more than 75,000 tonnes, more than 10 times those in the same year-earlier period, and look set to far outpace initial forecasts. That's still just a fraction of China's total consumption of around 5.6 million tonnes a year, but the proportion is set to swell.

"Domestic beef prices are going up faster than the import price," said Joy Tang,



"Domestic beef prices are going up faster than the import price," said, China manager at Meat and Livestock Australia. "The gap is closing."

JOY TANG
China manager at Meat
and Livestock Australia

China manager at Meat and Livestock Australia. "The gap is closing."

Traditionally the domain of China's Muslim minorities, raising cattle for meat only

began to expand in the 1980s, but remains small scale and fragmented.

One of China's earliest beef processors, Fuhua slaughters 30,000 head of cattle a year,

with about a quarter of those raised on its own farm. Its Chinese Yellow-Swiss Simmental crossbred bullocks are reared in stalls on farmland that once supplied Chinese emperors, but is now overlooked by high-rise apartments — a sign of the capital's spreading urban sprawl that is rapidly swallowing up agricultural land and pushing up farmers' costs.

"Farmers aren't breeding anymore. It gives poor returns and they prefer to move to cities to work where they can earn 100 yuan (\$16.30) a day, while a cow only earns them 3,000 yuan a year," said Fuhua sales manager Liu Chunsheng.

"The beef market is very scattered. There's not a single big company," Liu added.

"It's to do with capital. This year everyone's losing money. Live cattle are expensive and imports are cheap. It's quite simple."

China currently only allows beef imports from Australia, New Zealand, Argentina, Uruguay and Costa Rica, but recently added four Canadian firms to its list of approved exporters. It has also signed a framework deal with India to import buffalo meat.

For now, the Chinese eat just four to five kg of beef per head each year, around a fifth of the global average.

"Chinese knowledge about beef is still very low. We're teaching butchers how to cut the meat and consumers how to appreciate a good steak," said Tang at Meat and Livestock Australia.



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Weight Category	Ashern	Gladstone	Grunthal	Heartland Brandon	Heartland Virden	Killarney	Ste. Rose	Winnipeg
Feeder Steers	n/a	n/a	Jun-18	Jun-18	Jun-19	Jun-17	Jun-20	Jun-21
No. on offer	n/a	n/a	126	317	609*	220*	165	250
Over 1,000 lbs.	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
900-1,000	n/a	n/a	n/a	100.00-112.00	105.00-116.00	n/a	n/a	114.00-117.00
800-900	n/a	n/a	n/a	112.00-123.00	113.00-124.50	n/a	n/a	117.00-123.00
700-800	n/a	n/a	115.00-128.00	120.00-135.00	122.00-137.00	119.00-131.00	n/a	124.00-130.00
600-700	n/a	n/a	120.00-133.00	128.00-141.00	128.00-143.00	125.00-136.00	n/a	125.00-137.00
500-600	n/a	n/a	125.00-136.00	130.00-140.00	130.00-144.00	128.00-142.00	n/a	130.00-140.00
400-500	n/a	n/a	128.00-140.00	125.00-143.00	132.00-148.00	n/a	n/a	130.00-140.00
300-400	n/a	n/a	130.00-145.00	n/a	n/a	n/a	n/a	n/a
Feeder heifers								
900-1,000 lbs.	n/a	n/a	n/a	90.00-105.00	92.00-104.00	n/a	n/a	105.00-108.00
800-900	n/a	n/a	n/a	95.00-107.00	98.00-111.00	n/a	n/a	105.00-114.00
700-800	n/a	n/a	100.00-110.00	105.00-115.00	105.00-117.00	n/a	n/a	105.00-117.00
600-700	n/a	n/a	105.00-116.00	110.00-121.00	111.00-125.00	112.00-123.50	n/a	110.00-122.00
500-600	n/a	n/a	110.00-120.00	112.00-124.00	115.00-128.00	115.00-128.50	n/a	118.00-128.00
400-500	n/a	n/a	118.00-133.00	115.00-125.00	117.00-131.00	115.00-127.00	n/a	120.00-135.00
300-400	n/a	n/a	120.00-135.00	n/a	n/a	n/a	n/a	n/a
Slaughter Market								
No. on offer	n/a	n/a	73	158	n/a	n/a	149	250
D1-D2 Cows	n/a	n/a	n/a	74.50-80.00	68.00-75.00	60.00-66.00	70.00-79.00	68.00-78.00
D3-D5 Cows	n/a	n/a	59.00-64.00	n/a	50.00-68.00	n/a	40.00-71.00	58.00-65.00
Age Verified	n/a	n/a	n/a	n/a	69.00-78.50	65.00-74.00	n/a	63.00-72.00
Good Bulls	n/a	n/a	81.00-89.75	77.00-83.00	76.00-84.00	78.00-89.00	78.00-85.00	82.00-91.00
Butcher Steers	n/a	n/a	n/a	106.00-111.25	103.00-108.00	n/a	n/a	n/a
Butcher Heifers	n/a	n/a	n/a	103.00-108.00	101.00-105.75	n/a	n/a	n/a
Feeder Cows	n/a	n/a	68.00-75.00	65.00-72.00	70.00-84.00	n/a	n/a	n/a
Fleshy Export Cows	n/a	n/a	68.00-74.00	n/a	n/a	n/a	n/a	n/a
Lean Export Cows	n/a	n/a	58.00-66.00	n/a	n/a	n/a	n/a	n/a

* includes slaughter market

(Note all prices in CDN\$ per cwt. These prices also generally represent the top one-third of sales reported by the auction yard.)

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NEWS

Canadian hog exports likely to be hit again by latest COOL changes

By Brandon Logan
 COMMODITY NEWS SERVICE CANADA

Recent changes to the U.S. country-of-origin labelling law will likely further hurt live hog exports from Canada, says a livestock economist with the Saskatchewan Ministry of Agriculture.

"I think the biggest concern with the changes to COOL is that commingling will not be allowed," said Brad Marceniuk. "In our industry, it makes Canada worse off than before the changes."

The labelling law has already cost the Canadian pork industry an estimated \$2 billion because of lost sales and lower prices. But industry players south of the border aren't happy, either.

"With no commingling, U.S. packers will have to better segregate," Marceniuk said. "That could increase packer costs."

In a recent report, the USDA acknowledges the rule change will drive up packers' costs, but says it "lets consumers benefit from more specific and detailed labels."

Canadian hog producers can ill afford a further drop in exports to the U.S., said Marceniuk.

"We peaked out at 10 million live exports and I think we're down between five or six million now," Marceniuk said. "We're at a waiting period because the industry doesn't know what exactly is going to happen. I think export prices have levelled off, but U.S. producers and packers aren't sure where this is going to go."

The World Trade Organization has ruled the original labelling law was discriminatory, and Canada has launched an appeal of the recent changes, arguing they have made the law worse. Canada has the right to impose retaliatory measures, and recently issued a list of goods — both on food and manufactured goods — that may be hit with tariffs if Washington doesn't fix the law.

That approach may yield results faster than another appeal to the WTO, which will take at least another year, said Marceniuk.

"I think Canada is hoping the measures suggested will make the U.S. change their minds," he said. "I can't tell you if that will happen though."

SHEEP & GOAT COLUMN

Fluctuating prices make the outlook for sheep and goats uncertain

Manitoba buyers are eyeing the Ontario market for direction

By Mark Elliot
CO-OPERATOR CONTRIBUTOR

The Winnipeg Livestock Auction started the summer sale schedule on June 5, 2013. Producers delivered 400 sheep and goats. Fluctuating markets in recent months are creating a downward trend. Once again, the Ontario market had been flooded with large volumes. Prices there were showing extreme pressure.

Bidding on the lighter-weight ewes was a little stronger but there was no difference between sheared or not. Ewes in the 106- to 110-pound range, brought a price range of \$0.68 to \$0.85 per pound. Heavier ewes, in the weight range of 125 to 235 pounds, brought a price range of \$0.33 to \$0.52 per pound. The buyers were bidding less ewes placed in the cull level.

There were rams on offer. No pattern or trend was indicated by the buyers, based upon the weight of the ram. Some of the buyers were looking for well-structured breeding stock. An exception was a 90-pound Rideau-cross ram that brought \$103.50 (\$1.15 per pound), while a 200-pound Suffolk-cross ram brought \$180 (\$0.90 per pound).

Interest on the heavy lambs was marginal with only a few bids. There was only one group of 126-pound Cheviot-cross lambs, which brought \$113.40 (\$0.90 per pound).

Market lambs did not dominate the sale, as the last sale. The weight ranged from 98 to 101 pounds, bringing \$127.40 to \$87 (\$1.30 to \$0.87 per pound).

The buyers were more interested in feeder lambs ranging in weight from 82 to 93 pounds and brought \$72.16 to \$125.55 (\$0.88 to \$1.35 per pound).

Producers delivered more lighter-weight lambs. Lambs in the 70- to 79-pound range brought \$72.80 to \$104.28 (\$1.04 to \$1.32 per pound). An exception was a 70-pound Cheviot-cross lamb, which brought \$43.75 (\$0.625 per pound). Another exception was a group of 75-pound Cheviot-cross lambs, that brought \$108.75 (\$1.45 per pound).

A 60-pound Cheviot-cross lamb brought \$58.50 (\$0.975 per pound).

Forty-four 54-pound lambs brought \$57.24 (\$1.06 per pound).

Forty-four 37-pound lambs brought \$26.27 (\$0.71 per pound).

Bidding on new-crop lambs was low, but the lambs were well developed and showed good structure.

Twenty-one 84-pound Dorset-cross lambs brought \$96.60 (\$1.15 per pound). A group of 24 81-pound Suffolk-cross lambs brought \$93.15 (\$1.15 per pound). Thirteen 70-pound lambs brought \$84.70 (\$1.21 per pound). Eleven 60-pound Suffolk-cross lambs brought \$62.40 (\$1.04 per pound).

Goats

A stable price range has increased interest in goats and

		May 15, 2013	May 1, 2013
EWES		\$65.34 - \$101.92	\$54.52 - \$118.72
		\$17.10 - \$58.75	\$46
LAMBS (LBS.)			
	110+	\$113.40	\$143.84
	95 - 110	\$87 - \$127.40	\$110.20 - \$125.13
	80 - 94	\$72.16 - \$125.55	\$72.16 - \$91.30
	Under 80		
	70 - 79	\$43.75 - \$108.75	n/a
	60	\$58.50	\$56.88 (65 lbs.)
	54	\$57.24	n/a
37	\$26.27	n/a	
			\$67.90 - \$73.80
			\$31.05 - \$56
			\$63.60/\$107.10
			n/a
			\$76.95 - \$90.12
			n/a
			\$59.13- \$75 (60 - 63 lbs.)
			\$37.50/\$49.40 (50/52 lbs.)
			n/a

that made for a slight increase. The milking breed goat produced a higher range, compared to the meat goat. A group of two 110-pound Nubian-cross does brought \$130 (\$1.13 per pound). Another group of seven 96-pound Nubian-cross and Alpine-cross does brought \$120 (\$1.25 per pound). The Boer-cross goats (does) brought a price range from \$0.90 to \$0.94 per pound. An exception was a 95-pound Boer-cross doe that brought \$120 (\$1.26 per pound). A 90-pound Kiko-cross doe brought \$62.50 (\$0.69 per pound).

All buyers had high interest and demand for the bucks entering the arena.

Lower-weight bucks brought the higher price range.

A group of eight 79-pound Boer-cross bucks brought \$145 (\$1.84 per pound). The 110-pound Boer-cross buck brought \$172.50 (\$1.57 per pound).

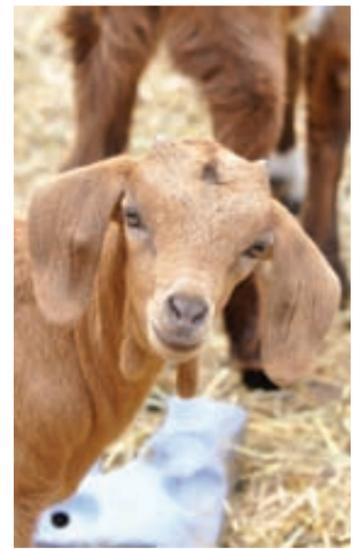
A group of five 71-pound Nubian-cross wethers brought \$159 (\$2.24 per pound). Thirteen 71-pound Boer-cross doelings and bucklings brought \$139 (\$1.96 per pound).

Six 58-pound Alpine-cross goats brought \$120 (\$2.07 per pound). A group of six 58-pound Nubian wethers brought \$119 (\$2.05 per pound). Five 51-pound Boer-

cross goats brought \$101 (\$1.98 per pound).

Two 33-pound Boer-cross goats brought \$55 (\$1.67 per pound). Six 36-pound Boer-cross goats brought \$61 (\$1.69 per pound). A 35-pound goat brought \$52.50 (\$1.50 per pound).

The Ontario Stockyard Report has reported when a large volume of goats delivered to the auction, causing prices to drop. At the present time, the well-framed lighter lambs are in demand by the buyers. Generally, the market and feeder lambs have slightly decreased, once again. Sheep and goats have remained at a stable bidding price.



Notice of Public Hearing and Pre-Hearing Conference

Applicant: Manitoba Public Insurance Corporation

HEARING:

The Public Utilities Board (Board) anticipates holding a public hearing of an application from Manitoba Public Insurance Corporation (MPI) for approval of rates and premiums for compulsory vehicle and driver insurance as of March 1, 2014. The hearing would take place at the Board's Hearing Room, 4th Floor, 330 Portage Avenue, Winnipeg, MB (commencing at 9:30 a.m.) on September 24, 2013. A Pre-Hearing Conference is to be convened by the Board in its offices at 10:30 a.m. on June 28, 2013.

RATE IMPACT:

The Corporation is requesting approval for Basic Autopac vehicle and drivers licence rates and premiums effective March 1, 2014, which, if approved, would result in a 1.8% overall increase in MPI's Basic premium revenue (excluding the impact of vehicle upgrades and an increased overall driver and vehicle population).

Actual vehicle and driver premiums would vary depending on claim and driving experience, insurance use, territory and vehicle rate group. Full particulars, including the rate impact and application, can be found on the Manitoba Public Insurance website www.mpi.mb.ca.

PRE-HEARING CONFERENCE:

Those seeking Intervener status should notify the Board of their intention by applying to the Board Secretary before the now scheduled Pre-Hearing Conference of June 28, 2013. Interveners may be entitled to financial assistance, and the Board's Rules of Practice and

Procedure (Rules) provide the related guidelines, which can be seen at the Board's website www.pub.gov.mb.ca or obtained on request to the Board, by either emailing (publicutilities@gov.mb.ca), writing or calling the Board Secretary (204-945-2638 or 1-866-854-3698, toll free). Parties wishing to submit a brief or to express comments at the hearing should also contact the Board Secretary.

GENERAL INFORMATION:

Interested parties should take note that the Board does not have jurisdiction over the MPI lines of business denoted as Extension or SRE, or as to MPI's Driver and Vehicle Licensing operation.

Persons seeking further information as to MPI's application, or with respect to the Board's process, and/or wishing to address the public hearing in French should notify the Board Secretary by August 30, 2013. As well, interested parties may examine MPI's application and supporting materials, either at the offices of the Corporation or on its website, or the Board's office.

DATED this 17th day of June, 2013.

H. M. Singh
Secretary
The Public Utilities Board



Five days notice required.



Wheelchair access is available.



WEATHER VANE

"EVERYONE TALKS ABOUT THE WEATHER, BUT NO ONE DOES ANYTHING ABOUT IT."
Mark Twain, 1897

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Dry, hot weather expected

Issued: Monday, June 24, 2013 - Covering: June 26 – July 3, 2013

Daniel Bezte
Co-operator contributor



The biggest problem with last week's forecast was that the low pressure system expected to zip through the region over the weekend ended up moving much slower. This allowed for several rounds of rain to form and rotate through our region, bringing too much rain to some areas and some much-needed rain to others.

This forecast period looks as if it will start off warm and fairly active and then transition into a drier and hotter pattern. The weather models show thunderstorms developing to our south and west sometime on Wednesday, then drifting northeastward in the afternoon and into the overnight hours. Isolated areas of heavy rain are possible once again with these storms.

Thursday and Friday look as if they will be partly cloudy, with near-seasonable temper-

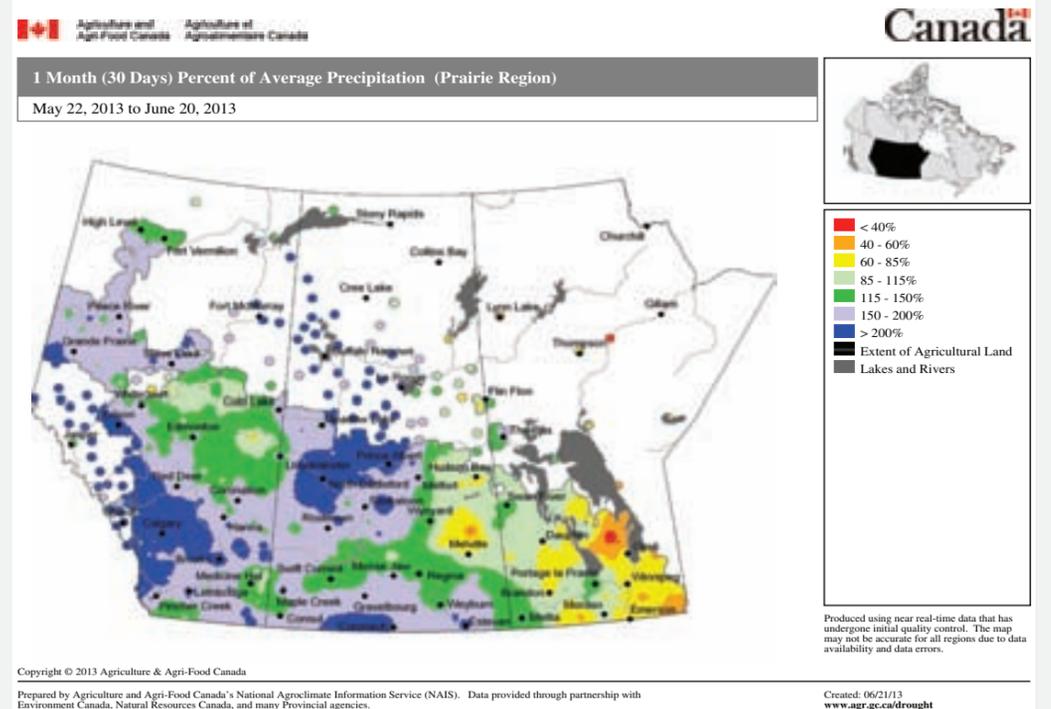
atures as a weak area of low pressure slowly slides by to our north. There could be the odd shower thrown into the mix on these two days as well, with the best chances being in the Interlake and over eastern areas.

Over the long weekend the weather models show a ridge of high pressure developing to our west. This should bring mainly sunny skies along with increasing temperatures. Look for highs in the mid- to upper 20s to start the weekend, warming to around 30 C by Monday. This ridge of high pressure is then forecast to push eastward during the week, which would allow temperatures to warm even more, with highs by Wednesday in the low to mid-30s.

Usual temperature range for this period: Highs, 20 to 30 C; lows, 8 to 17 C.

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.

WEATHER MAP - WESTERN CANADA



This issue's map shows the total amount of precipitation that fell across the Prairies over the 30 days ending June 20, compared to the long-term average. You can really see just how wet it has been to our west, with nearly all regions experiencing above-average amounts and large areas (blue) seeing more than double the average! Manitoba has been the only dry area, although this recently changed with the widespread heavy rainfall that occurred this past weekend, especially over western Manitoba.

Expect more heavy summer rainfalls

A warmer atmosphere can hold more moisture, which eventually has to fall somewhere

By **Daniel Bezte**
CO-OPERATOR CONTRIBUTOR

When we think about severe summer weather we almost always think of damaging winds and hail. While these two features can result in severe damage, the kind of damage is often highly localized. One thing about severe summer weather that we tend not to think about, until it creeps up on us, is heavy or extreme rainfall. When you look at the impact of heavy rain and the resultant flooding, it by far outweighs most of the other summer severe weather events.

Just look at the weather over the last couple of weeks across the Prairies. After I pointed out that it looked as if we had finally switched into a summer-like pattern, with weaker weather systems and more thunderstorms, we saw another unusually strong upper low form over the Prairies that brought copious amounts of rain to western Alberta and parts of southern Manitoba.

Before we take a look at this unique weather event, I thought we should first look at just what Environment Canada uses as criteria for rainfall watches and warnings.

First of all, according to Environment Canada's website, it does not issue rainfall watches, so we only need to look at warning situations. If it is

LAST WEEKEND'S RAINFALL

Town	mm
Reston	107
Forrest	106
Brandon	97
Shoal Lake	87
Dauphin	84
Souris	81
Minnedosa	79
Grandview	77
Hamiota	76
Virden	71
Wasagaming	69
Ethelbert	52
McCreary	51
Birtle	50

going to be a short-duration event, such as a thunderstorm, you need to expect upward of 50 mm of rain in one hour before a rainfall warning will be issued, at least across the Prairies. It is actually lower over the East and West Coasts. While this might not make sense at first, if you think about it, they rarely get the intense thunderstorms that inland areas of Canada receive.

If the rainfall event is expected to be a longer-term event, the criteria for

a warning is when 50 mm of rain are expected within 24 hours, or 75 mm of rain are expected within 48 hours. Sometimes, due to the nature of summer storms, you can have both types of warnings going on at the same time.

Now a lot of talk recently has been about the heavy rains we've seen across different parts of the Prairies over the last several years. The heavy rainfalls across western Alberta resulted in flooding that came near, or even far exceeded, the record flooding of 2005 in these areas. The 2005 flood was a one-in-100-year flood, and now only a few years later the region is seeing another one-in-100-year flood. In fact, at the Elbow River near Bragg Creek, the peak flow during the 2005 flood was 308 cubic metres per second. During this year's flood the flow rate hit an astonishing 513 cubic metres per second before it stopped reporting.

Here in southern Manitoba, the same system that brought all of the rain to Alberta brought two rounds of heavy rain over the weekend. Slow-moving thunderstorms on Friday night into early Saturday morning brought upward of 75 to 150 mm of rain in the Reston area, according to Environment Canada. Unofficially, some localized heavy downpours were experienced, with amounts as high as 212 mm reported near Portage la Prairie. Check out the table for some of the

larger rainfall totals for the weekend across southern and central Manitoba.

So why all the heavy rain? Well, it is summer, and we've seen and will continue to see heavy rainfall events. It's the nature of our summer weather. Why do we seem to be seeing so many heavy rainfall events lately? It could simply be the general pattern or cycle we are in, but personally, I believe it is tied indirectly to global warming. A warmer atmosphere can hold more moisture. That moisture will eventually have to fall out of the atmosphere. When it does, it will fall out in large amounts.

People will argue against this by saying we have seen rainfall events as big, if not bigger, in the past when there was no global warming, and they are right. However, when these events occurred they tended to be isolated and very infrequent in nature. What we see now are much more widespread events occurring much more frequently.

I think simply chalking these events up to regular weather and continuing on as usual is the wrong way to go. To be successful going forward we need to start realizing that not only will we have to cope with dry periods, but we will also have to deal with heavy rainfall events. Just how we can deal with both of these successfully is the \$1-million, or rather, \$1-billion question.

CROPS

HUSBANDRY — THE SCIENCE, SKILL OR ART OF FARMING



White spots speak volumes about alfalfa's needs

Alfalfa can pull down its own nitrogen from the atmosphere, but can't conjure up phosphorus, potassium, sulphur, and boron out of thin air

By Daniel Winters
CO-OPERATOR STAFF / NEEPAWA

Alfalfa isn't a plant that complains a lot, but white spots on its leaves are a clear plea for more potash.

After poking around in the field surrounded by whispering poplars at the recent Hay Day tour near Neepawa, provincial soil fertility specialist John Heard pointed out a shining example of "full-blown potassium deficiency."

Farmers gathered around excitedly, firing off questions whether it was possible to guesstimate how much potash would need to be applied, or whether a boron deficiency was present, too.

"This is just telling you that the patient is dead or dying. To know how to bring it back to life, you'd have to soil test," said Heard.

Alfalfa can pull down its own nitrogen from the atmosphere, but it can't conjure up other nutrients such as phosphorus, potassium, sulphur, and boron out of thin air. Every ton of hay taken off of it also removes 60 pounds of potash.

"It's just a fact of life. On some of these very sandy soils, there's often a low supply, and we tend to have more round balers than manure spreaders in the field," said Heard.

Economics is also an issue, he added, because potash is four times the price it was a decade ago.

Switching the field over to pasture for a few years would staunch the bleeding, but it wouldn't offer a quick fix because grazing ruminants only redistribute what's there, said Heard.

The field was seeded to alfalfa and grass three or four years ago and had been in production for two years, said owner Jim Pollock. Prior to that, it grew wheat and canola. Getting the forage stand established took two tries, and a low spot on one end saw the alfalfa drowned out.

Even though the soil was very sandy, each acre still managed to produce about three to 3.5 1,400-pound round bales with an annual application of about 25 to 40



An alfalfa plant showing the telltale white spots that indicate potassium deficiency. PHOTOS: DANIEL WINTERS

pounds of phosphorus and 20 to 25 pounds of potash.

"We're likely not putting on enough potash," said Pollock, adding his cattle winter about five miles away, so spreading manure isn't an option.

A shallow hole in one corner of the field showed the soil was almost all fine yellow sand, with a darker, undulating brown layer about six inches thick sitting atop a sandy subsoil.

Grey shading in the soil showed where the rising and falling water table in the field had oxidized the mineral from its typically rusty-orange colour, noted Marla Riekman, a land management specialist with Manitoba Agriculture, Food and Rural Initiatives.

She demonstrated a "fizz" test by

adding a drop of hydrochloric acid to a handful of soil. No bubbling occurred, which indicated that carbonates had mainly leached down into the subsoil.

Alfalfa is a good choice for this particular type of land, said Heard, because even with a high water table, wheat roots tend to go no farther than six feet deep.

Pollock concurred, but noted that once the deep-rooted crop got its roots down far enough, a good crop of alfalfa is possible even in a dry year.

"It's getting the thing established, that's the thing," said Pollock.

In an earlier presentation on forage fertility, Heard said phosphorus is critical for good nodulation on alfalfa. It also helps to extend



Marla Riekman, (centre), a MAFRI land management specialist, explains the dynamics of the soil profile in a field near Neepawa.

"It's just a fact of life. On some of these very sandy soils, there's often a low supply, and we tend to have more round balers than manure spreaders in the field."

JOHN HEARD

the life of an existing alfalfa stand, with good P levels improving more shoot growth recovery and size.

"Do I reseed, or just put on more phosphorus? With proper phosphorus nutrition, we tend to retain a greater percentage of legume in a stand," said Heard.

He also said research done at AAFC Brandon showed no benefit to fertilizer banding, possibly due to the offsetting effect of potential injury to the plant's crown.

"Forages, once they are established, are very good at accessing surface nutrients," said Heard. "So that's a bit of good news. Don't waste your time trying to get phosphorus into the soil, broadcasting works just fine."

daniel.winters@fbcpublishing.com

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NEWS

NFU protests changes to Seeds Act, but other farm groups supportive

By Alex Binkley
CO-OPERATOR CONTRIBUTOR / OTTAWA

Farmers should be alarmed by proposed changes to federal Seeds Act regulations, according to the National Farmers Union.

The rules are supposed "to protect farmers and all of Canadian agriculture from unscrupulous seed dealers and poor-quality seed," said NFU president Terry Boehm. "But the proposed changes to the regulations clearly show that the federal government is prepared to let seed companies decide what farmers can and cannot use for seed."

The changes would remove testing and performance standard requirements and permit seed companies to unilaterally stop providing varieties of cereal or forage crops even if farmers still want them, he charged.

But his view isn't shared by other farm groups.

The changes will make soybean registration similar to the current corn registration, a system that has worked well, said Richard Phillips, executive director of Grain Farmers of Canada.

"We don't hear calls from any farmers to do away with access to continually improving corn varieties, which is at stiff odds to the NFU's empty bluster," he said.

The changes are mainly aimed at speeding up the introduction of new varieties, said Ron Bonnett, president of the Canadian Federation of Agriculture.

The Canadian Food Inspection Agency will continue to oversee verification of seed variety quality, said Bonnett, adding his organization is pushing the agency to ensure farm groups are consulted before any changes are made in varieties offered to farmers, especially forages.

There should also be adequate regional testing of new varieties to make sure they will perform as breeders claim, he said.

However, Boehm said the government should prevent seed companies from dropping perfectly good varieties as that forces farmers to buy higher-priced new ones.

Railway legislation passes, more squabbling down the track

Shippers say the bill doesn't go far enough to hold railways accountable for poor service

By Alex Binkley
CO-OPERATOR CONTRIBUTOR

The Senate has given final approval to legislation to require the freight railways to offer service agreements to their customers, but squabbling over details of the law is expected to continue.

To shippers, the law didn't go far enough while the railways warned it would interfere with normal commercial relationships.

Transport Canada will now have to draft regulations to enact the provisions of the law. Given the divide between carriers and shippers, there will be plenty of disagreement over the details as they are posted in the *Canada Gazette* for public comment before becoming the law.

"If we're going to be able to adapt these systems, we have to research and test them in the conditions and more words balanced."

CLAUDE MONGEAU
president and CEO of CN

The rules will give the Canadian Transportation Agency a large role in adjudicating service disputes.

Claude Mongeau, president and CEO of CN, said the bill is a disappointment "because it is not consistent with a sound public policy agenda that

encourages increased productivity and innovation in Canada.

"There is always room for continuous improvement, but we operate in a well-functioning market where there are no systemic service issues," Mongeau added. "This enviable situation is the result of 25 years of successful public policy that progressively deregulated railways and encouraged greater reliance on normal commercial market forces."

Spearheaded by the Canadian Industrial Transportation Association, shipper groups had prodded the Harper government create a balance in the marketplace between shippers and the railways. After five years of studies and debate, the legislation is a letdown, says CITA president Bob Bal-

lantyne, who also serves as chairman of the Coalition of Rail Shippers.

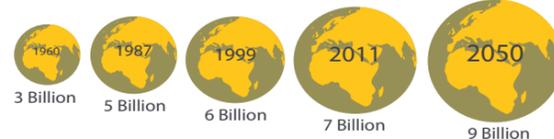
"The way it is worded now, it has some openings in it that would certainly allow the railways to use various legal processes to either delay or thwart the intent of the bill," he told Senate hearings on the bill.

Shippers also wanted the right to demand that the railways compensate them when they fail to meet delivery commitments. The railways impose a number of service charges on the carriers if they don't load and unload cars fast enough or fall short on other obligations.

The government used its majority in Parliament to push the legislation through without any amendments.

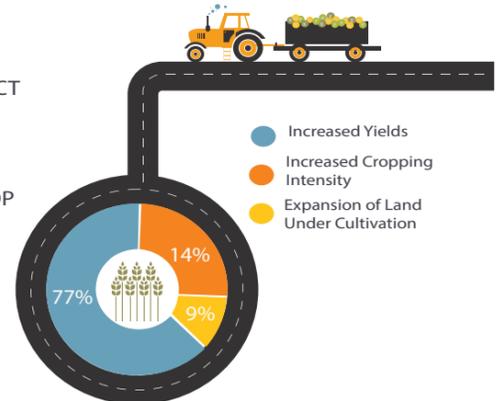
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4R NUTRIENT STEWARDSHIP HELPS GROW CROPS **SUSTAINABLY** AND REDUCE THE AMOUNT OF NUTRIENTS ENTERING WATERWAYS

THE 4RS INCREASE PRODUCTION/PROFITABILITY FOR FARMERS WHILE ENSURING THE FUTURE OF THE AGRICULTURAL INDUSTRY

RIGHT



SOURCE

SELECT THE CORRECT SOURCE OF NUTRIENT FOR YOUR SOIL ENSURING A BALANCED SUPPLY OF ESSENTIAL PLANT NUTRIENTS

RIGHT



RATE

PERFORM ANNUAL SOIL TESTING & APPLY NUTRIENTS TO MEET CROP REQUIREMENTS WHILE ACCOUNTING FOR NUTRIENTS ALREADY IN THE SOIL

RIGHT



TIME

APPLY NUTRIENTS AT THE RIGHT TIME SO NUTRIENTS WILL BE AVAILABLE =WHEN CROP DEMAND IS HIGH & DO NOT APPLY FERTILIZER ON FROZEN SOILS

RIGHT



PLACE

PLACE NUTRIENTS BELOW THE SOIL SURFACE WHERE THEY CAN BE TAKEN UP BY GROWING ROOTS WHEN NEEDED

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Monsanto sets out to change the western Canadian agricultural landscape

The company is investing \$100 million into earlier-maturing corn hybrids

Staff

Monsanto has launched an ambitious plan to change the western Canadian agricultural landscape over the next 10 years with earlier-maturing corn hybrids.

The company announced plans June 24 to invest \$100 million over the next decade on its Canada Corn Expansion Project developing hybrids that could potentially be grown over 26 million acres in Western Canada.

"Taking into consideration crop rotations, this could result in an estimated annual western corn market of eight million to 10 million acres by 2025, up significantly from the current annual western Canadian corn acreage of around 300,000 to 500,000 acres — the large majority of which is confined to southern Manitoba," the company says in a release.

"Increasing our investment in Western Canada is consistent with our mission to help farmers produce more, conserve more and improve lives by continually and consistently delivering new, higher-value crop innovations that improve farm profitability," said Mike Nailor, corn and soybean lead for Canada. "We also see the potential for this work to bring significant economic growth to western Canadian agriculture."

Monsanto will be focusing on hybrids for the 70 to 85 relative maturity (RM) corn market, but the project will also involve extensive field testing; agronomic training for farmers and others within the agriculture industry; marketing and agronomic support; and partnerships with the channel, it says.

"Farmers in Western Canada are some of the most sophisticated in the world but most

haven't had the option to grow corn in the shorter-season climate that characterizes Western Canada," Nailor said in a release. "There will definitely be a learning curve but farmers are innovators and strong adopters of technology."

"I don't doubt for a second, that given the tools, they will drive corn acre expansion across the West if the yield and profitability potential in corn remains strong relative to other cropping options."

Nailor said Monsanto's focus will be on doing what is right for the farmer agronomically in the long term and helping them minimize early-adoption risk as they add corn to their rotation.

Monsanto has recently added a new corn-breeding and -testing station to its Carman facility. It says the increased investment more than doubles the compa-

ny's previous breeding and testing budget dedicated to 70 to 85 RM corn hybrids and should drive quicker introduction of corn hybrids for farmers in geographies across the northern U.S. and Western Canada.

Several new positions in Western Canada were also posted and filled this past spring, including the hiring of a new corn breeder and testing manager for the Carman site. An additional three new technology development roles were also added to provide the pre-commercial research support for corn in Western Canada.

"One of the obvious benefits of this project is that it provides western Canadian farmers with an additional crop choice that can enhance the overall profitability of their farming operation," said Nailor. "But we also see a lot of room for growth and expansion in other crops that include

canola and soybeans to complement a typical western Canadian rotation. Our goal will be to help farmers incorporate corn into their current production system to maximize opportunity across a variety of crops, whether they are farming in Manitoba, Saskatchewan or Alberta."

The Canadian project is part of a global expansion by Monsanto into earlier-maturing hybrids, with particular emphasis on emerging markets in Ukraine and Russia.

"There is a lot of work ahead of us to help Canadian farmers be successful with this opportunity, but we feel it holds significant potential to transform western Canadian agriculture, strengthen agricultural productivity and deliver incremental income to farmers annually," said Dan Wright, Canada corn expansion project lead.

MANITOBA EMBRACES 4R NUTRIENT STEWARDSHIP

The 4R Nutrient Stewardship program, developed by the Canadian Fertilizer Institute, and supported in Manitoba by Keystone Agricultural Producers and the provincial government, will help farmers apply nutrients using the Right Source @ Right Rate, Right Time, Right Place® to protect the environment while maximizing returns.

The Canadian Fertilizer Institute has committed \$150,000 in funding over three years to this initiative in order to provide local farms and communities with practical tools to implement Best Management Practices. Watch for:

- An online 4R training program on GrowZone and other materials that will be Manitoba-specific – coming soon
- A 4R water and nutrient movement learning station that will travel across the province – coming this winter
- Workshops on 4R nutrient management, including planning with certified professionals – coming in 2014
- Demonstration farms that showcase the impact of 4R implementation – starting in the 2014 growing season

This program is about empowering farmers to utilize the 4R Nutrient Stewardship framework to ensure profitability, the protection of the environment, and the production of safe food.

More details and developments on the Farming4RManitoba initiative can be found at www.farming4Rfuture.ca.

Keystone Agricultural Producers



CANADIAN FERTILIZER INSTITUTE
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GrowZone

NOW AVAILABLE ON GROWZONE & 4R Nutrient Stewardship Training 4R Essentials - A Short Course

For farmers, these courses will deepen understanding of nutrient management in crop production and raise interest in adopting 4R Nutrient Stewardship on farm.

For practicing agronomists, these courses will provide a solid understanding of the 4R Nutrient Stewardship concept and allow for better nutrient recommendations to farm clients.

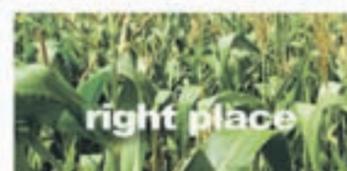
For Certified Crop Advisers, these courses will award participants with continuing education credits.

- 5.5 Nutrient Management CEUs - 4R Nutrient Stewardship Training
- 1.5 Nutrient Management CEUs - 4R Essentials

For students, these courses will provide a framework in which to organize thinking and knowledge about nutrient management in crop production.

4R Nutrient Stewardship online training is now available for in depth learning and application skills, or simply as an introduction to 4R essentials.

Visit cfi.ca/growzone to start your training.



Richardson International expands sites

WINNIPEG / REUTERS

Privately held Richardson International Limited said it will spend \$40 million to add grain storage and farm input facilities in Western Canada, continuing an aggressive expansion in the wheat and canola region.

The new projects come after Richardson completed this year the \$900-million purchase of numerous Viterria grain-handling and -processing sites, linked to Glencore Xstrata PLC's takeover of Viterria in 2012.

Richardson, now one of the two biggest western Canadian grain handlers with Viterria, said June 10 it will add 14,000 tonnes of grain storage capacity to each of its country elevators at Carseland, Alta., Crooked River, Sask., and Shoal Lake, Man.

The Winnipeg-based company will build more fertilizer storage space plus blenders and storage warehouses for chemicals and seed at four country elevators previously owned by Viterria. The facilities are at Stony Mountain and Letellier, Man., Kindersley, Sask., and Lacombe, Alta. Richardson will also build a 35,000-tonne fertilizer distribution centre at Saskatoon, Sask., and add fertilizer blenders to its locations in Oyen and Magrath, Alta.; Kamsack, Saskatoon and Shellbrook, Sask.; and Shoal Lake, Man.

Richardson chief executive Curt Vossen told Reuters recently that the company is too large to grow much more in Western Canada through acquisitions and would look for opportunities in the United States.

The company has already announced it will spend \$120 million to expand its Vancouver, British Columbia, grain terminal and is boosting its canola-processing capacity at its two plants.

Trifoliate stage best for rolling soybeans after emergence

Going sooner could result in more plant damage

By Allan Dawson
CO-OPERATOR STAFF

Don't roll soybeans until they reach the first trifoliate stage, advises Dennis Lange, or you risk breaking too many young plants. "You don't want any beans at the hook stage," said the Altona-based farm production adviser with Manitoba Agriculture Food and Rural Initiatives. "Only roll if you have some stones or dirt that will cause you some harvest issues."

If you have to roll, wait until later in the day when it's warmer and plants are less brittle, he said.

Rolling pushes down stones, flattens dirt clods and levels the field making soybeans easier and faster to harvest in the fall, while also reducing the risk of stones damaging the combine.

The flatter the field, the lower the combine pickup can be set making it easier to harvest low-hanging seed pods.

When rolling fields farmers should check to see if plants are breaking.

"That's really important. Don't do a 160-acre test strip," Lange said.

Ideally, soybean fields should be rolled shortly after seeding, before the crop emerges, but not when the soil is wet, he said. Rolling wet soil causes compaction and can create a crust making it difficult for soybean seedlings to emerge.

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Wait until the first trifoliate to roll your soybeans, says MAFRI's Dennis Lange. Rolling at this stage will ensure the field is past the hook stage where most of the damage to the plants will occur. If you roll when the plants are just at the unifoliate stage there is a greater chance of some soybeans being at the hook stage. The centre plant in this photo is in the first trifoliate stage, with three leaflets in the middle, two first true leaves lower on the stem and the cotyledons below that.

PHOTOS: DENNIS LANGE, MAFRI



This soybean plant is at the unifoliate stage with two true leaves and the cotyledons below.

"Don't do a 160-acre test strip."

DENNIS LANGE



These emerging soybeans are at the hook stage. Rolling plants at this stage will cause a lot of plant damage.

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O-68-05/13-BCS13001-E

CROP REPORT

It didn't just rain, it poured – causing floods

Manitoba Agriculture, Food and Rural Initiatives crop report for June 24, 2013

Weekly Provincial Summary

Many areas of Manitoba received significant amounts of rainfall over the past several days. Impact to crops is being assessed and will depend on the stage of crop development and duration of the excessive moisture conditions.

Earlier in the week, crops showed rapid development given the warmer weather conditions.

Producers made excellent progress with herbicide applications; progress by crop type ranges from 80 to 100 per cent complete.

First-cut haying operations continue with average yields.

Southwest Region

The Southwest Region experienced moderate to heavy rainfall over last week with amounts ranging from 30 to 200 mm. The heaviest amounts fell in the Pipestone and Reston area where localized overland flooding was experienced. Much of the remainder of the region received 50 to 80 mm.

Weed control measures continued and are nearing completion.

Insect activity continued to intensify early last week with flea beetle feeding in canola still requiring additional control measures. Cutworm injury also increased over the past week with most reports of activity coming from northern areas of Birtle, Rosburn, Strathclair, Hamiota and Elphinstone.

Pasture and hay growth continued to improve over the past week with most forages now entering the reproductive stages of development. Water levels in sloughs and dugouts are now 90 to 100 per cent.

Northwest Region

By the week's end, all areas of the region were affected by rains and heavy thunderstorms with precipitation amounts from 75 to 125 mm. Producers in the Westlake area from Eddystone to Meadow to Portage report receiving up to 190 mm of rain. In the more affected sectors, flooding and some damage to infrastructure and roads is limiting access to livestock, pasture and fields.

Crop development, stand consistency and crop conditions have been good.

With the recent rainfall, some localized water ponding in crops, forages and pastures is now evident in all areas of the region and particularly in the low-lying areas.

Herbicide applications are 85 per cent completed overall.

Canola insect trap counts continue to be very low. Low numbers of European Skipper larvae were observed in a few mixed hay fields.

Condition of forage and pasture land are rated as good to fair; yields are expected to be average or below average. Moisture supply is adequate to surplus and some warmer temperatures are needed to increase grass yields. Hay harvest is very limited to date; some initial cuts just before the rain were not baled and remain in the wet field conditions. Dugout water levels are full to adequate.

Central Region

Rain fell throughout the region with some areas receiving sig-

nificant amounts over the week-end. Altona area saw 12 to 20 mm, Headingley 10 to 125 mm, Mather/Cartwright 100 mm, and Plummas 65 to 75 mm.

Some acres remain unseeded due to excess moisture.

Windy conditions delayed herbicide applications.

Stands of many crops are uneven. Some canola was reseeded due to poor crop stands, further compromised by heavy flea beetle pressure.

Corn crops are improving in colour and growth has improved greatly. Soybeans range from unifoliate through to early third-trifoliate stage. Most fields have had one application of glyphosate.

Canola ranges from just emerging to bolting and early flower. Flea beetle feeding was a concern in much of the region. Earliest-seeded fields had the most pressure; some fields

seem to be bolting early due to combined stresses.

Fall rye is headed and winter wheat is entering the flag leaf to early-heading stage. Most fields have variable crop staging and timing for fusarium head blight suppression fungicide application, if necessary, will be difficult.

Cutworms are reported in a few corn and broadleaf crops.

Hay fields were slow to progress with average to cooler temperatures but growth is improving. Grasses in pastures are starting to head out. Most pastures are growing rapidly.

Eastern Region

Rainfall amounts from 12 to 25 mm fell this past week-end in the Eastern Region. Cropland moisture levels across the region are rated at 90 per cent adequate and 10 per cent short.

Crops showed rapid development last week.

First-pass or single-pass herbicide applications are 90 to 95 per cent complete. Herbicide performance in general has been satisfactory with no major concerns. Spraying for fusarium head blight will start as soon as the plants start to flower. Foliar fungicide applications on annual cereals could start by weekend.

Leafhoppers are being reported in some soybean fields but no defoliation is evident. Some lygus bugs were also found but no concerns to date. In cereal fields, root rots and wireworms are impacting stands.

Hay conditions in the region are rated as 80 per cent good.

Interlake Region

Isolated thundershowers through the week brought accu-

mulations of 20 to 40 mm to some localized areas across the Interlake Region. Moosehorn to Gypsumville were the hardest hit with water ponding in most fields. General showers on Sunday accumulated to 20 mm across the region. The Woodlands area received 45 mm from this system.

Herbicide application continues. Showers encouraged weed emergence in drier areas making additional herbicide applications necessary for some producers. Winter wheat is beginning to head out.

Alfalfa is in early-bloom stage. Seed producers are staging the crop for insecticide application prior to leafcutter bee turnout. Timothy seed fields are at the early-heading stage.

First-cut haying operations continue with generally good yields. Pasture conditions are average.



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Disease and resistance management require serious rotation.

COUNTRY CROSSROADS

CONNECTING RURAL FAMILIES

BLUE HILLS FIBRE FEST brings shepherds, spinners and knitters together

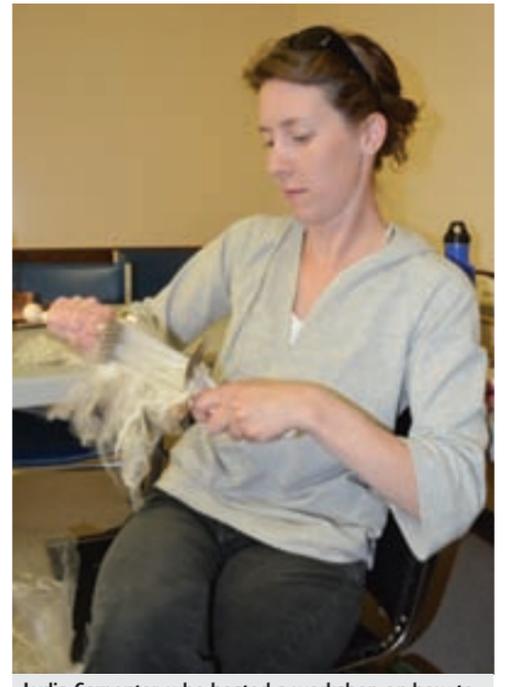
Woolly event aims to get more crafters using locally produced fleece know-how



Ashanti O'Rourke needle felts a small knick-knack. PHOTOS: DANIEL WINTERS



Allison Krause-Danielsen shows a drop spindle, an ancient device for turning fleece into yarn that's also portable.



Lydia Carpenter, who hosted a workshop on how to wash raw fleece, cards wool.

By Daniel Winters
CO-OPERATOR STAFF / SPRUCEWOODS

Manitoba has both sheep and knitters, but somehow over the years, the thread that once connected them has been lost.

In a bid to tie those two loose ends together, the Manitoba Sheep Association recently put on the Blue Hills Fibre Fest, the first of what is hoped will be an annual event showcasing locally grown and processed wool.

"We want to connect people who grow wool or people who have fibre and yarn with the knitters and spinners who use it," said organizer Allison Krause-Danielsen.

Save for a small section of Michael's craft supply store in Brandon, it's hard to find top-quality local materials for knitting, felting, weaving and crafting even though there are plenty of sheep and alpacas in the province, she said.

"We wanted to connect the two, and have a little bit of fun doing it," said Krause-Danielsen, who grew up as a "crafty kid" whose "crafty" grandma taught her how to spin and knit.

Susan Sydor is another organizer of the event, which featured workshops on dyeing, spinning, and how to turn raw fleece fresh off the sheep's back into a useful raw material.

The owner of three alpacas and a llama spends countless hours "listening" — but not watching — television, while stretching fibres and gently pumping the foot pedal of her spinning wheel. For her, spinning is a kind of meditation with an active, tactile aspect that's very rewarding.

"All of your thoughts go into the yarn," she said. "You spin the

night away, and then when you wake up in the morning, your worries are gone because you've solved it all."

Sydor said the new fibre festival is "multi-layered," but mainly aimed at educating the public about the abundance and variety of fleeces, their uses, and the types of livestock that produce it.

"We want to bring all of those people together in one place and feed the addiction," said Sydor.

Manitoba's fleece industry dates back to the Selkirk settlers, and some people still own and use equipment for processing fibre that was built in the 1880s.

With that long tradition and a strong lamb industry, the province has the potential to become a "place that's known for its fibre," if markets can be developed, she said. As well, if more shepherds add genetics for wool-producing characteristics to their herds, they could add a second income stream to their operations.

Brian Greaves, a shepherd from Miniota, director of the Canadian Co-operative Woolgrowers Association, and longtime advocate for wool production in Manitoba, served as judge for a multi-class fleece quality competition.

Instead of grading for commercial value, he was basing his decisions on the desires of home spinners. Basically, the longer the fibres, the easier it is to spin, and the finer the strands, the less "itchy" a finished garment will be, he said.

Woollen long johns, for example, are best made from Merino, the finest of wool fibres, but there are no animals of that breed in the province. But Rambouillet, a French-developed breed, is a close second and is common in Manitoba, he added.

The event represented a valuable opportunity for wool producers to mix with niche market end-users and hopefully open up new marketing channels, said Greaves.

His fleeces, which typically bring about \$15 each in the commodity market, could fetch twice that if sold to someone willing to wash it and turn it into a couple of sweaters, he said.

"Some of the smaller producers can make good money selling

their fleeces to the home spinners," said Greaves.

Coloured fleeces from breeds such as Icelandic, for example, may be "worthless" on the commercial market, but are highly sought after by the niche market.

Breeding existing flocks for both wool and meat, he said, can be as simple as adding a ram with better wool characteristics, because that trait is highly inheritable.



Organizer Susan Sydor puts her spinning wheel to work making yarn.



Gail Kasprick takes notes as Brian Greaves judges fibre lengths in the fleece competition.

"You can take a Rambouillet ram and put him over your Suffolks with poor-quality fleeces and 70 per cent of his daughters are going to have better-quality fleeces," said Greaves.

Lydia Carpenter, who runs a 100-head, pasture-raised, direct-marketed flock near Nesbitt, taught a workshop on how to wash raw fleece, a key step towards turning it into finished products, as well as drying, carding and combing.

A few washes with blue Dawn detergent is usually enough to get the oily lanolin and dirt and manure out of the fleece, she said. Then, after combing and carding, the wool is ready for spinning or felting.

"You could pay your shearer, and have extra money," she said.

A spinner and wool user herself, Carpenter previously bought fleeces from others because wool from her commercial meat herd of Dorset, Rideau and Suffolk wasn't of sufficient quality.

But lately, she has added two dozen Finn-Rambouillet-cross ewes that when crossed with a meat-type ram can produce two to three lambs a year on grass alone — as well as top-quality wool.

"Now, all of a sudden I've got 25 to 30 fleeces that I can work with, and we can maintain the commercial production on the meat side," said Carpenter.

If she sells them for \$20 each, that would cover the cost of shearing her whole flock (at \$5 to \$6 per head). An opportunity also exists for some enterprising individuals, she added, as raw fleeces worth 30 cents to \$1.50 per pound, fetch \$1.50 per ounce at the retail level once processed into "roving" — wool ready to spin.

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Recipe Swap

Send your recipes or recipe request to:

**Manitoba Co-operator
Recipe Swap
Box 1794,
Carman, Man. ROG OJO**

or email: lorraine@fbcpublishing.com

Making the ordinary divine

Lorraine Stevenson
Crossroads Recipe Swap



There's an old saying that cream doesn't rise to the top. It works its way up.

If cream isn't at the top of your grocery list right now, it will be there after you've had a look at a new recipe series released just in time for summer and the BBQ season.

Dairy Farmers of Canada enlisted the talents

of three Canadian chefs to come up with new ways to use cream to add additional depth, flavour and texture to summer's favourite grilled recipes.

Each chef developed two new recipes, available at www.AnyDayMagic.ca, along with more of their ideas, tricks and tips for using cream to make something ordinary divine.

Do you have some Half and Half in your fridge for the coffee? Try making a chilled cucumber, apple and mint soup with it. Or add a heavier cream to a sauce for an additional depth of flavour and mouth feel. There

are loads of ideas for dessert recipes, including a grilled peach trifle with lemon butter-milk cake that looks absolutely mouth watering. And those of you looking for gluten free, there's one for mashed potatoes with a lemony dill sauce. It comes from someone we told you about on these pages earlier this spring — Steinbach mom and cookbook author Jeanine Friesen.

We say 'cream of the crop' when we mean something extraordinary. Serve a few of these delights this summer, and your family will be feeling like the cat that got the cream.

Grilled Pink Peppercorn Steak With Creamy Cambozola Sauce

Blue cheese is a perfect substitute if you can't find cambozola cheese where you shop. You'll need to double or triple the ingredients as this serves just two to four.

2 strip loin steaks, each about 8 oz. (250 g)*
2 cloves garlic, grated
1 tbsp. olive oil
2 tsp. Worcestershire sauce
1 tsp. (5 ml) dried thyme
1-1/2 tbsp. (22 ml) pink peppercorns, crushed, divided

Creamy Cambozola Sauce:

1-1/2 tbsp. unsalted butter
1 clove garlic, minced
1/2 c. 35% cream
1/4 lb. Canadian cambozola, gorgonzola or blue cheese, crumbled
1 tsp. grated lemon zest

Bring steaks to room temperature, about 20 minutes. Preheat barbecue to medium-high heat. In a small bowl whisk together garlic, olive oil, Worcestershire sauce and thyme. Brush steaks with marinade and firmly coat with the peppercorns reserving 1/2 tsp. to garnish sauce. Place steaks on greased grill in the centre (to allow even heat circulation). Grill covered, turning once, until medium rare, about 8 minutes or until desired doneness. Transfer to cutting board and let stand 6 minutes before slicing or plating.

Creamy Cambozola Sauce: Meanwhile, heat a small saucepan on medium heat; melt butter. Add garlic, cook for 1 minute or until fragrant. Add cream and reduce by half, about 4 to 5 minutes. Slowly, whisk in cheese until pieces melt. Stir in lemon zest.

Serve sauce on the side or on top of a portion of the steak and garnish with remaining peppercorns.

Tips: Marinating the steak in red wine or adding ingredients such as: soy sauce, Dijon mustard or Montreal steak spice is optional. However, with a quality piece of meat, it is recommended not to overseason as the true integrity of the meat can be jeopardized.

* Or boneless beef top sirloin or grilling medallions

Preparation time: 10 minutes
Cooking time: 10 minutes
Serves: 2 to 4

Source: Dairy Farmers of Canada



Herb And Spice Marinated BBQ Chicken Drumettes

The 10% cream in the recipe adds moisture, the herbs and spice make this recipe aromatic and inviting. Be sure to allow one to two hours to marinate the meat and allow the full flavours to develop.

16 chicken drumettes*, about 1-1/2 lbs.
1/2 c. 10% cream
1/2 small onion, peeled
3 cloves garlic, peeled
3-inch piece of ginger, peeled and minced
Zest and juice of 1 lemon (about 3 tbsp. of juice)
1/2 c. fresh cilantro leaves
1 tbsp. butter, melted
1 tbsp. each, Dijon mustard, liquid honey and apple cider vinegar
1 tbsp. each, ground cumin and coriander
1 tsp. each, ground turmeric and cayenne
Salt and pepper, to taste

Pull the skin off the chicken drumettes, place into an 8-inch-square glass baking dish or similar-size stainless steel pan. In a food processor, combine, cream, onion, garlic, ginger, lemon zest and juice, cilantro leaves, butter, mustard, honey, vinegar, cumin, coriander, turmeric, cayenne, and salt and pepper; process until smooth. Pour marinade over chicken; cover and refrigerate for 1-1/2 to 2 hours, to allow the flavours to develop.

Preheat grill to medium high. Remove chicken from marinade and place on a baking sheet lined with paper towels. Place chicken pieces on greased grill; lower temperature to medium low. Grill covered for 9 minutes, turn the chicken over and grill covered for 8 to 9 minutes or until juices run clear from the chicken when tested with a fork. Place on a serving platter to share.

* Chicken drumettes are the thick, meaty part of the wing; almost look like a mini leg.

Tips: Use the round end of the spoon to easily peel the ginger root. Roll lemon firmly with your hands to release the juice under the skin of the lemon. Serve with an extra-thick and tangy sour cream dip.

Source: Dairy Farmers of Canada

Creamy 'Tandoori-Style' Shrimp

Wow neighbours, friends and family with this creamy, aromatic shrimp dish made with whipping cream and flavourful spices.

1 c. 35% cream
1/2 c. plain yogurt
1/4 c. each, chopped fresh cilantro and mint leaves
2 cloves garlic, minced
Finely grated zest and juice of 1 lemon (about 3 tbsp./45 ml of juice)
2 tbsp. each, ground coriander and paprika
1 tbsp. ground cumin
1 tbsp. finely chopped ginger root
1 tsp. tomato paste
1/2 tsp. each, ground cinnamon, pepper and salt
1 lb. (16 to 20*) shrimp, shelled and deveined
2 green onions, thinly sliced
1 lime, cut into wedges

In a large bowl, whisk together cream, yogurt, cilantro, mint, garlic, lemon zest and juice, coriander, paprika, cumin, ginger root, tomato paste, cinnamon, pepper and salt. Reserve 1/4 cup; cover and refrigerate. Pat shrimp dry with paper towel; add to marinade and toss to coat well. Cover and refrigerate for 30 minutes or up to 6 hours. Preheat grill to medium-high heat. Remove shrimp from marinade. Place on greased grill over medium-high heat; close lid and grill, turning once, until pink, about 5 to 6 minutes. Place in bowl; stir in reserved marinade and toss. Serve garnished with green onions and lime wedges. Enjoy immediately.

Tips: * A lot of seafood is sold by the weight. The size and count by the pound determines how large the product is. This helps with consistency in selling the product. The numbers 16 to 20 mean that there are 16 to 20 shrimp to one pound. The smaller the number – the larger the product!

Preparation time: 15 minutes
Cooking time: 5 to 6 minutes
Serves: 4

Source: Dairy Farmers of Canada



PHOTOS: DAIRY FARMERS OF CANADA

COUNTRY CROSSROADS

Most dangerous sport in rodeo

Bull riding much more than competition

By Darrell Nesbitt
FREELANCE CONTRIBUTOR

High school rodeo may have been featured in the neighbouring community of Onanole in the past, but it was a seat within Westman Communications Place that urged a Rolling River First Nation teenager to give the sport a try.

While watching his sister Skye Rees compete at a Manitoba High School Rodeo Association (MHSRA) event in Brandon in the fall of 2011, Owen McKay focused on bull riding and thought it would be something he would like to try, despite the event being the most dangerous sport in the rodeo world.

"After enrolment in the Build a Cowboy program put forth by the MHSRA in Onanole later that fall, I joined the ranks of high school bull riding in the spring of 2012," said McKay. "While it's my sole event, it's an amazing sport and a total adrenaline rush."

Although McKay has been involved with the MHSRA for a short period of time, the teenager has also been involved in the Heartland Rodeo Association and the Manitoba Rodeo Cowboys Association (MRCA) that has a larger and stronger pen of bulls.

And for McKay, the miles covered to compete is looked at as an eye-opener experience shared with the other approximately 10 A and B bull riders competing at the high school level. An A bull rider settles down on stronger bucking bulls than a B competitor.

"I wholeheartedly feel the MHSRA and other attributes of the cowboy lifestyle are a great pastime, despite the miles needed to be covered," said McKay, who is aiming to become a firefighter or join the military upon graduation. "Involved in rodeo, it has presented the opportunity to travel and compete in a number of Manitoba towns that I haven't been too." Making new friends



Owen McKay shows his bull-riding skills. PHOTO: DARRELL NESBITT

has also created positive moments.

From a favourite rodeo competitor standpoint, McKay tips his hat to Kory Ginnis of Grenfell, Sask. who has been riding bulls within the Canadian Cowboys Association for a number of years. Experience shared is a vote of confidence for McKay, who feels Ginnis can make a ride look easy, although he knows that is far from the truth when one speaks of bulls and their bucking prowess.

"Rodeo – like any sport – is more than competition," said McKay, who calls Erickson home. "By being involved you build great relationships with friends and families."

McKay said that bull riding is

truly a confidence booster, and thus far a major highlight was staying aboard for the required eight seconds not once but twice in Russell last fall.

Bull riding requires a positive attitude as a cowboy engages in a test of nerves against a bucking bull. During the ride, the cowboy tries to stay close up on the rope's handhold to prevent his arm from straightening and his hand from breaking loose. A bull rider is disqualified for touching the bull with his free hand or bucking off before the end of the eight-second ride. A rider is not required to move his feet because staying on these loose-hided animals is difficult enough. However, if a bull rider does spur, he will be marked higher.

McKay said he has a passion to share his goals and dreams with younger youth involved in the MHSRA, and enjoys lending a hand to them behind and up in the chutes. "We are individuals competing, but it takes a team to make the show."

Along with building great relationships, McKay feels responsibility is an important cog in the rodeo wheel. When one speaks of a person(s) who has influenced his passion for bull riding McKay said his father, Shawn McKay, leads that list. He added that Garland's Kelly Millward, a father, rancher and an outstanding Manitoba bullfighter within a number of associations, has also been a great help in and out of the arena.

With each ride being a learning curve, the 16-year-old is grateful for all the help that has come his way. Support from his parents, family, peers, stock contractors, and bull-riding fans, has been very beneficial for a young man who knows full well how bull riding spurs on an element of danger with each gate latch.

And despite breaking his shoulder competing at MRCA in Yorkton, Sask. last November, his mental toughness is keeping him in the game. Healing up, his focus is to reach new rodeo goals, all thanks to the cowboy within.

Darrell Nesbitt writes from Shoal Lake, Manitoba

Know the DANGERS

Parents underestimate measures needed to prevent child drownings

Canadian Red Cross release

Drowning is the second leading cause of preventable death for children younger than 10, but recent Canadian Red Cross research shows that many parents do not understand what is needed to safeguard children in, on and around the water. On average, 13 children drown in the Prairie provinces every year.

"Children can drown quickly and quietly, and often in situations where they were not expected to enter the water," says Rick Caissie, national director for first aid, swim-

ming and water safety at the Red Cross. "Only one-third of children and youth who drown in Canada were taking part in aquatic activities that parents typically see as risky, like swimming or wading. One-third of children drown in situations where they enter the water unexpectedly, like by falling from a dock or entering the water without their caregiver's knowledge."

Parents can have a false sense of security when their children are near water. Nearly half (46 per cent) of parents believe they can effectively supervise a child in the water without constantly watching

"Children can drown quickly and quietly, and often in situations where they were not expected to enter the water."

them. However, four out of five children under the age of six who drown in Canada were not expected to enter the water.

Red Cross public opinion research shows that Canadian parents significantly underestimate children's risk of drowning in shallow water, with 98 per cent of respondents with children younger than four indicating that water depth influences their level of supervision. However, data shows that 40 per cent of children drown in water less than one metre deep, and 90 per cent of children who drown in shallow water are not with a supervising adult.

"Sixty per cent of child drownings occur between June and August. If past trends continue, 34 children could

drown before Labour Day," adds Caissie. "We urge parents to understand the risks to children not just when they are in the water, but also when they are on or near it."

The Red Cross is calling on all parents and adults to properly supervise children by maintaining them within reach and within sight at all times. The Red Cross has been helping to keep Canadians safe in, on and around water since 1946. For more information about Red Cross swimming and water safety programs, or for safety tips, visit www.redcross.ca/swim.

COUNTRY CROSSROADS

Exotic looking but easy to grow

The clivia actually seems to thrive on neglect

By Albert Parsons
FREELANCE CONTRIBUTOR

The blooms of some plants are so spectacular that we simply must keep them in our collections, even if they do bloom but once a year. One such plant in my indoor collection is my clivia.

Although the name clivia sounds exotic and its blooms certainly look exotic, the clivia is actually a very easy plant to grow; it seems to thrive on neglect.

Related to the amaryllis family, clivia has dark-green, strap-like leaves; the flower stalk emerges from between the tightly packed leaves in spring or early summer. Unlike the amaryllis, the clivia is an evergreen plant so the leaves do not dry off and die every year, and is quite an attractive foliage plant when not in bloom.

Periodically, a bottom leaf will begin to yellow at the tip and gradually the whole leaf

will die. This is a natural process and I simply remove the spent leaf since new ones are constantly emerging from the centre of the plant. The plant actually has somewhat of a fan shape as the leaves are tightly layered one above the other.

My clivia has been growing in ordinary soilless mix and it has been in the same container for several years as these plants like to be pot bound; needing to be repotted only every few years adds to its easy-care reputation. My clivia is in a rather small eight-inch pot and the plant has long since used up any nutrients in the soil so I fertilize it regularly during the growing season.

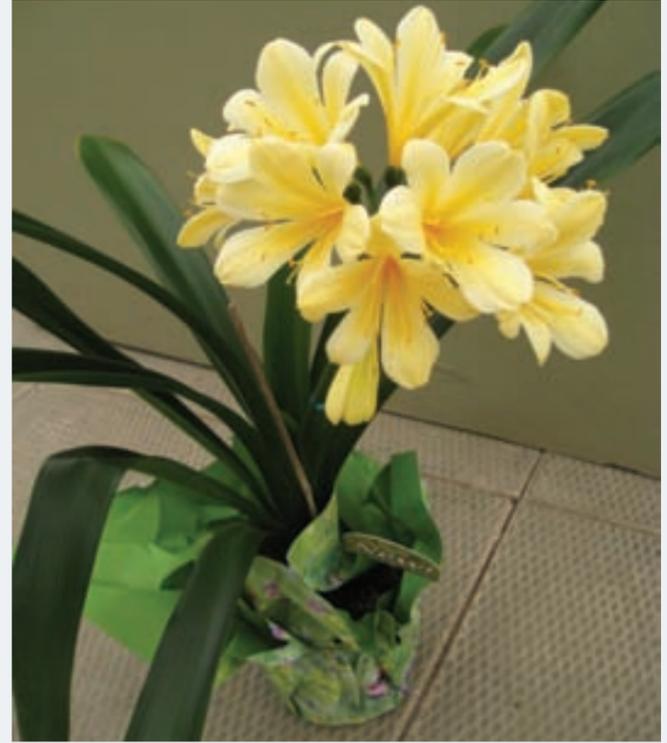
It is very drought tolerant and I allow the soil to dry out somewhat between waterings; in the winter I barely water the plant at all.

No pests or diseases have ever bothered the specimen I have and I doubt that insects find the rather hard,

leathery leaves very appetizing. A long winter dormancy period doesn't seem to affect the foliage — it remains dark green. I try to locate the plant where it will get some direct sun but it seems to thrive even in lower-light locations. Wiping the leaves periodically with a damp cloth makes the foliage more attractive. I display my plant in a plant stand as the ends of the long leaves hang well below the bottom of the pot.

I leave my clivia in the sunroom for the summer but some people put theirs outdoors and are sometimes rewarded with another bloom in late summer. Even if it doesn't bloom, its pendulous dark-green leaves will add an exotic touch to an outdoor plant grouping. I would recommend a location such as a covered porch so that the beautiful evergreen foliage is not marked or damaged.

Clivias demand top dollar because they are somewhat



This plant is quite easy to grow and its blooms are spectacular.
PHOTO: ALBERT PARSONS

rare. However, a plant will last forever and a mature clivia will produce offsets which can be separated from the parent plant and potted up to produce new plants. It will

take one of these new plants a couple of years to produce bloom.

Albert Parsons writes from Minnedosa, Manitoba

BENEFITS OF FAMILY MEALS

Study shows they contribute to good mental health

McGill University release

Regular family suppers contribute to good mental health in adolescents, according to a study co-authored by McGill professor, Frank Elgar, Institute for Health and Social Policy. Family mealtimes are a measurable signature of social exchanges in the home that benefit adolescents' well-being — regardless of whether or not they feel they can easily talk to their parents.

"More frequent family dinners related to fewer emotional and

behavioural problems, greater emotional well-being, more trusting and helpful behaviours towards others and higher life satisfaction," says Elgar, an associate professor in the faculty of medicine's department of psychiatry, whose research centres on social inequalities in health and family influences on child mental health.

The study, conducted by Elgar, Wendy Craig and Stephen Trites of Queen's University, examined the relation between frequency of family dinners and positive and negative aspects

of mental health. The researchers used a national sample of 26,069 adolescents aged 11 to 15 years who participated in the 2010 Canadian Health Behaviour in School-Aged Children study. The researchers found the same positive effects of family mealtime on the mental health of the young subjects, regardless of gender, age or family affluence.

"We were surprised to find such consistent effects on every outcome we studied," says Elgar. "From having no dinners together to eating together

seven nights a week, each additional dinner related to significantly better mental health."

During the study, the adolescents submitted data on the weekly frequency of family dinners, ease of parent-adolescent communication and five dimensions of mental health, including internalizing and externalizing problems, emotional well-being, more helpful behaviours and life satisfaction.

The authors suggest that family mealtimes are opportunities for open family interactions which present teaching oppor-

tunities for parents to shape coping and positive health behaviours such as good nutritional choices, as well as enable adolescents to express concerns and feel valued, all elements that are conducive to good mental health in adolescents.

The results of this research are published in the *Journal of Adolescent Health*. The Canadian Health Behaviour in School-Aged Children study was part of a World Health Organization collaboration of 43 countries and was funded by the Public Health Agency of Canada.

Thoughts on upcoming Canada Day

By Addy Oberlin
FREELANCE CONTRIBUTOR

Canada Day, which will soon be here, is the national day celebrating the anniversary of the July 1, 1867 enactment of the British North American Act, which united three colonies into a single country called *Canada* within the British Empire. Originally called Dominion Day, the name was changed in 1982. Canada Day observances take place throughout the country.

I am a Canadian citizen and am proud of it. Each



year the community band of our town plays in the park and we start with "Oh Canada." It brings forth emotions. Have I forgotten my birth country? Of course

not. I still have family there and treasure the times I can spend with them.

However, when I look back over the last 50 years and see how the Lord has blessed me and provided my needs and beyond in this beautiful country, I can only say with thanksgiving in my heart "Canada I love you."

May the fireworks and parades blossom our loyalty to our beloved Canada.

May "God keep our land, glorious and free."

Addy Oberlin writes from Swan River, Manitoba

Reader's Photo



With the late spring, there was no foliage on the tree, so this nest was sitting out in the open. A robin had laid one egg but after four days and six inches of rain, the egg was floating in two inches of water. I took it out and dried out the nest and built a cardboard roof over the top. I thought that if humans touch a bird's eggs they discard the nest but not this time. The robin now has four eggs and is very content to sit under her cardboard roof. PHOTO: RONNIE HOFER

FARMER'S MARKETPLACE

Selling? Call to place your classified ad in the next issue: **1-800-782-0794**
FAX your classified ads to: **204-954-1422** · Or **EMAIL** your classified ads to: **mbclassifieds@fbcpublishing.com**

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Your guide to the **Classification Categories** and sub-listings within this section.

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 Alarms & Security Systems

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 Tillage & Seeding Various

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 John Deere
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 Fur Farming
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 Health Care
 Heat & Air Conditioning
 Hides/Furs/Leathers
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LIVESTOCK HORSES

Horse Auctions
 American Saddlebred
 Appaloosa
 Arabian
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 Clydesdale
 Draft
 Donkeys
 Haflinger
 Miniature
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LIVESTOCK SHEEP

Sheep Auction
 Arcott
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 Katahdin
 Lincoln
 Suffolk
 Texel Sheep
 Sheep For Sale

Sheep Wanted

LIVESTOCK Swine

Swine Auction
 Swine For Sale
 Swine Wanted

LIVESTOCK Poultry

Poultry For Sale
 Poultry Wanted

LIVESTOCK Specialty

Alpacas
 Bison (Buffalo)
 Deer
 Elk
 Goats
 Liama
 Rabbits
 Emu Ostrich Rhea
 Yaks
 Specialty Livestock Various
 Livestock Equipment
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 Miscellaneous Articles
 Miscellaneous Articles Wanted
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ORGANIC

Organic Certified
 Organic Food
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 Photography
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 Pumps
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REAL ESTATE

Vacation Property
 Commercial Buildings
 Condos
 Cottages & Lots
 Houses & Lots
 Mobile Homes
 Motels & Hotels
 Resorts

FARMS & RANCHES

British Columbia
 Alberta
 Saskatchewan
 Manitoba
 Pastures
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Acreages/Hobby Farms
 Land For Sale
 Land For Rent

RECREATIONAL VEHICLES

All Terrain Vehicles
 Boats & Water
 Campers & Trailers
 Golf Carts
 Motor Homes
 Motorcycles
 Snowmobiles
 Recycling
 Refrigeration
 Restaurant Supplies
 Sausage Equipment
 Sawmills
 Scales

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 Durum
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 Triticale
 Wheat
 Cereals Various

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Alfalfa
 Annual Forage
 Clover
 Forages Various
 Grass Seeds

PEDIGREED OILSEEDS

Canola
 Flax
 Oilseeds Various

PEDIGREED PULSE CROPS

Beans
 Chickpeas
 Lentil
 Peas
 Pulses Various

PEDIGREED SPECIALTY CROPS

Canary Seeds
 Mustard
 Potatoes
 Sunflower
 Specialty Crops Various

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Cereal Seeds
 Forage Seeds
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Oilseeds
 Pulse Crops
 Common Seed Various

FEED/GRAIN

Feed Grain
 Hay & Straw
 Hay & Feed Wanted
 Feed Wanted
 Grain Wanted
 Seed Wanted
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 Sharpening Services
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 Professional
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 Sales/Marketing
 Trades/Tech
 Truck Drivers
 Employment Wanted

Manitoba Co-OPERATOR Classified Ad Order Form

MAIL TO: Manitoba Co-operator, Box 9800, Winnipeg, Manitoba R3C 3K7
FAX TO: 204-954-1422
PHONE IN: TOLL FREE IN CANADA: **1-800-782-0794**
 Or (204) 954-1415 in Winnipeg

Name: _____ Phone #: _____
 Address: _____ Town: _____
 Province: _____ Postal Code: _____

PLEASE NOTE: Even if you do not want your name & address to appear in your ad, we need the information for our files.

PLEASE PRINT YOUR AD BELOW: _____

Classification: _____ I would like to take advantage of the Prepayment Bonus of 2 FREE weeks when I prepay for 3 weeks.
 No. of words _____ x \$0.45 x No. of weeks _____ = _____

VISA MASTERCARD **Minimum charge \$11.25 per week**
 Card No. _____ Add \$2.50 if being billed / Minus 10% if prepaying: _____
 Expiry Date: _____ Add 5% GST: _____
 Signature: _____ **▶ TOTAL:** _____

ADVERTISING DEADLINE:
NOON on THURSDAYS
 (unless otherwise stated)

ADVERTISING RATES & INFORMATION

- REGULAR CLASSIFIED**
- **Minimum charge — \$11.25 per week** for first 25 words or less and an additional 45 cents per word for every word over 25. Additional bolding 75 cents per word. GST is extra. **\$2.50 billing charge is added to billed ads only.**
 - Terms: Payment due upon receipt of invoice.
 - **10% discount for prepaid ads.** If phoning in your ad you must pay with VISA or MasterCard to qualify for discount.
 - Prepayment Bonus: **Prepay for 3 weeks & get a bonus of 2 weeks;** bonus weeks run consecutively & cannot be used separately from original ad; additions & changes accepted only during first 3 weeks.
 - Ask about our Priority Placement.
 - If you wish to have replies sent to a confidential box number, please add \$5.00 per week to your total. Count eight words for your address. Example: Ad XXXX, Manitoba Co-operator, Box 9800, Winnipeg, R3C 3K7.
 - Your complete name and address must be submitted to our office before publication. (This information will be kept confidential and will not appear in the ad unless requested.)

- DISPLAY CLASSIFIED**
- Advertising copy deviating in any way from the regular classified style will be considered display and charged at the display rate of \$32.20 per column inch (\$2.30 per agate line).
 - **Minimum charge \$32.20 per week + \$5.00 for online per week.**
 - Illustrations and logos are allowed with full border.
 - **Spot color: 25% of ad cost, with a minimum charge of \$15.00.**
 - Advertising rates are flat with no discount for frequency of insertion or volume of space used.
 - Telephone orders accepted
 - Terms: Payment due upon receipt of invoice.
 - Price quoted does not include GST.
- All classified ads are non-commissionable.

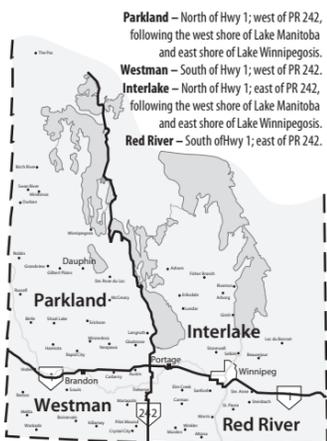
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 While every endeavor will be made to forward box number replies as soon as possible, we accept no liability in respect to loss or damage alleged to a rise through either failure or delay in forwarding such replies, however caused, whether by negligence or otherwise.

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AUCTION DISTRICTS



ANTIQUES

**ANTIQUES
Antique Equipment**

FOR SALE: 1946 JD AR starter & lights, partly restored, need room in shop. Phone (204)435-2103.

FOR SALE: 1 NICE buggy tongue w/complete eavens & neck yoke; 1 good set of single harness w/collar & bridle; 1 double set of parade harness, spread rings, scotch tops; Several antique neck yokes for buggy or cutter. Good horse machinery. (204)242-2809.

INTERNATIONAL HARVESTER COLLECTORS CHAPTER 38, 2013 show will be held at Olds college grounds July 19th & 20th in conjunction w/the 60th World Plowing Championship. An IH collector will be offering many project units at the Olds College Antique Machinery Auction July 18th, 10:00am. ihc38.com Derald Marin (306)869-2262.

AUCTION SALES

**AUCTION SALES
Manitoba Auctions – Parkland**

BANKRUPTCY AUCTION SALE On Sat., June 29th 9:30am in the Legion Hall in Rapid City. Totally Non Reserved Sale for BDO Ltd., Brandon. Featuring a large quantity of foreign paper money, large quantity of Canadian coinage, plus a stamp collection. This will be a large sale, no buy backs, everything must be sold. For more info phone Prairie Lane Auctions (204)724-7510 or Hyndman's Auction (204)826-2092.

**AUCTION SALES
Manitoba Auctions – Interlake**

**McSherry Auction Service Ltd
AUCTION SALE
Bert & Lea Vandersteen**

Sat., July 6 @ 11:00 am
Fisher Branch, MB
Directions: #39 North St
For Viewing of Property: (204) 664-2154

Property & House: Parcel #1 - Address - RM of Fisher Lot 1, 48' Frontage, Located on the corner of Railway & North St. House - 1000 sq ft Home w/ Full Basement & Attached 14' x 22' Insulated Garage w/ Overhead Door, 2 BR on Main level, 2 Bathrooms 1) Main Level 1) Basement, Central Air, Appliances, Stucco Exterior & Sheet Metal Roof, Many Up Grades, Town Water & Sewer, Also includes Detached Garage 12' x 34' Tin Roof, Cement Floor, Wired & Oil Door; **Parcel #2** - Address - RM of Fisher, Lot 17/18 BLK 442P, 100' Frontage, 2 Lots, No Buildings, Sold Together

Sale Day Deposit - Certified Cheque of **Parcel #1 - \$5,000** & **Parcel #2 - \$2,500** Sale subject to Owner's approval of Last Bid. Possession date Approx. 1 Month

Vehicles: 98 GMC Sierra, SLE 2500 Ext Cab 4x4, 6.5 dsl. Auto, A/C, 260,000 km, Sft * 98 Pontiac Transport, SUV, 185,000 km, Sft * 84 Ford Econoline Camper Van, 1/2 Bath, Fridge, Stove, 152,000km, ns * Truck Box Utility Trailer **Yard:** JD GT 275 17hp, Hyd 48" Mower & 32" Rotovator Attachment * JD STX33, 5 spd R Mower * MTD 8.5hp, 24" Snowblower w/ Elec Start * Int Cadet, Model 268 Self-Propelled Snowblower * Push Gas Mowers * 12v Full Type Sprayer, Boom & Wand * 42" Pull Type Lawn Sweep * Fert Broadcaster * Husq 225 SCS Gas Weed Eater Wick & Blade * Home Light Gas Weed Eater * Hosemobile * Hand Yard Tools * Roof Rake * Propane BBQ * Bird Bath * 10' Wood Gazebo * 10'x12' Yard Shed w/ Tin Roof **Rec & Hunting Access:** 97 Yamaha 350cc Wolverine 4x4 Quad * Honda Big Red * Starcraft 14' Al Boat & Trailer * Harley Davidson Gas 3-Wheel Golf Cart * Snowmobile Steigh * Fishing Rods * Camping Items * Coleman Stove & Lantern * Deer Horn Mts * Hand Meat Saw * Tree Stand * Quad Gun Carrier * Golf Clubs Gm: Parker Hale BA, 303 British Rifle, w/ Scope Tools: Trademaster 12" Thickness Planer * Craftsman 10" Table Saw * Craftsman 10" Radial Arm Saw * Durak 10" Band Saw * Delta Belt Sander * King Mitre Saw * Husq 266 Chain Saw * Echo Chain Saw * Portable Air Comp * Battery Charger * 2) Shop Vacs * Power Tools * Bench Grinder * Makita Angle Grinder * 1/2" Drill * Circular Saw * Sanders * Power Hand Planer * Spin Saw * 18 Volt Cordless Drill * Air Tools * 1/2" Impact * 3/8" Ratchet * Many Hand Tools * Jet 3/4" Socket Set * 1/2" Socket Sets * Saws * Hammers * Hand Planer * Tap & Die Sets * Impact Driver * Floor Jack * Wood Clamps **Bldg & Misc:** 24'x30' Insulated Shed, Wood Floor, On Skids, Wired, Tin Roof * Truck Tool Box * Jackal * Tow Rope * Chains & Hooks * Gas Cans * 1 ton Chain Hoist * 540/1000 Reducer * Work Bench * Shelving * Saw Horses * Water Well Jet Pump * Job Water Pump * Kerosene Heater * Backpack Fire Water Sprayer * HD Ext Cords * Al Multi Ladders & Ext * Plywood * Lumber * Screws * Nails * Hardware * Cash Register * Antiques: Walk-Behind Scuffler * Cream Can * Dresser * Trunk * Coal Oil Lamps * Swift Feed Clock * Feed Rite Clock * Belt w/Horse Household: Deep Freeze * Kitchen Table & Chairs * Medi-Lift Recliner * Couch * LR Chairs * 3pc BR Suite * Dressers * Beds * 4 DR Metal Filing Cabinet * Desk * DVD-VCR Player * Lamps * Microwave * Appliances * Bread Maker * 18 Quart Elec Roaster * K Items * Glassware * Blood Pressure Tester *

Stuart McSherry
(204) 467-1858 | (204) 886-7027
For full listings visit
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**AUCTION SALES
Manitoba Auctions – Interlake**

**McSherry Auction Service Ltd
AUCTION SALE
David Gislason**

Sat., July 20 @ 10:00 am Arborg, MB

2 North on #320 then EAST 3 1/2 Miles on Road 131 then South 1/4 Mile (long lane)

Auction Note: Main Items Well Kept & Shredded.

THIS IS A RETIREMENT AUCTION!

Contact: **Dave (204) 376-5578 | Email: mcsherry@mts.net**

Tractor & Crawler: 2000 NH 8160 MFWA Cab Std w/ Left Rev, 3PH 540/1000 PTO Dual Hyd 14.9 28 18.4.38 w/ Allied S 795 FEL Bucket & Bale Fork 800 True Hrs * 95 Case IH 7220 Magnum MFWA Cab P Shift, Triple Hyd 16.9R29 Factory Duals 28.8R 38 Frt Wgts, 3136 hrs * 92 Case IH 9250 4WD P Shift Quad Hyd 20.8R38 5265 hrs * Int B414 Dsl HL 3PH 540 PTO * Int TD 9 Crawler Gas Start / Diesel 9' Angle Dozer PTO Dual Hyd * 54 Farmall H Hyd 540 PTO Pulley Combine & Headers, Swather: 97 Case IH 2188 Rear Assist, Feeder Rev Dual Chaff Spreader Engine Hr 2778, Sep Hr 2297 Roto Upgraded 2388 * White 5542 Gas Combine * Case IH 725 25' P Type Swather w/ P/U Reel * 02 Case IH 1020 25' Flex Header * Case IH 1010 21' Straight Cut Header * Universal VH22 Specialty Header, less than 1000 acres * HM Header Trailer * 2) Farm King Swath Rollers 1)10' 1) 8' Air Seeder & Tillage, Scraper: Flexi Coil 5000 33' Air Drill 7" Spacing Flotation Hitch Rubber Packer w/ Flexcoil 1720 2 Comp Tank * Coop 279 33' Cult w/ Mulchers * Morris CP-719 19' Deep Tiller w/ Mulchers * Leon 850 8 1/2 Yard Hyd Scraper * JD 9350 24' (3x8) Press Drill SA FA GA w/ Rubber Press sold after Hyd Drill Carrier * DMI Nutri-Plac 5300 41' Anhydrous Applicator w/ Auto Rate Control * Bourqalt 7200 60' Springtine Harrows * Ezee-On 1590 29' Tandem Disc * Miller 12' Offset Disc Notched Frt * 2) JD 3600 Auto Reset Plow 1) 5B 1) 4B * JD AW 13' Tandem Disc Notched F&B * JD 16' Surfex Disc Tiller * HM 12' Rock Rake No Hyd Motor Crazy Harrows * Leon 3000 Rock Picker Trucks, Trailers: 80 Int 1800 Serius 446 Gas 5 spdX2 Factory Tag w/ 19' B&H w/ Roll Tarp 71,095 mi, Sft * 76 GMC 3 ton w/ 14' B&H * 81 GMC Sierra 2500 4x4 350 Auto * 80s WW Gooseneck 20' Tandem Flat Deck * 75 Canadian Trailmobile 42' Storage Frt Trailer * Utility Trailer * Semi Single Axle Dolly Augers & Hoppers: 6) Grain Max 4000 bus Hopper Bins on Steel Skids w/ Aeration * 10-61 MK PTO Auger * Westfield 8" 51' PTO Auger * Westfield 8" 36' w/ Elec 5HP w/ Rev * Vers 6" 36' Auger * 2) Kendon 170 Bushel Hopper Wagon * 5" 14' Hyd Drill Fill * Codwell 12' Aeration Fan * Hoppers 3PH & Misc Equip: Farm King 3PH 60" Rotovator * FarmKing 3PH 7" Snowblower * Buhler/Farm King 960 2 Stage Snowblower hyd Chute * Farm King 8' Blade w/ Tail Wheel * Woods 7' Blade * Farm King 7' Finishing Mower * Cadet 6' Rotary Mower * Rome 7' Cult * Bale Forks * 3PH 5th Wheel Converter * JD 37 9' Trailer Sickle Mower * Pallet Fork for FEL **Yard, Rec & Car:** JD F935 hyd Frt Mt 72" Mower 2163 hrs * JD 318 hyd Garden Tractor 42" Mower 40" Rotovator * 04 Bombardier Traxter XT 4x4 500 cc Quad, 104 hrs * 2000 Skidoo Rotox 500 Touring SLE, 1337 km * Noma 5HP Rear Tine Tiller * 77 Honda XL 125 Motor Bike * Merc 644 Hurricane MK1 Snowmobile no engine * 93 Buick Park Ave Ulta 285,000 km, Exc Cond, Sft * Glasstown 23' Fibreglass Boat 150 HP & Trailer * 20'x48' Metal Framed GreenHouse (no cover) * Backpack Sprayer * Hand Yard Tools * Along w/ Farm Misc * Tools * Some Antiques *



Stuart McSherry

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**AUCTION SALES
Manitoba Auctions – Interlake**

**AUCTION SALES
Manitoba Auctions – Red River**

**RETIREMENT AUCTION
FOR ED & YVONNE KUSHNIRYK
SATURDAY JULY 13th 10:00 AM**

Location: From Vita, MB 1 Mile East On 201, Then 7 Miles South On Arabkka Rd. #42145

- This is a Partial Listing**
- TRACTORS**
 - 350 International Wheatland Tractor w/ Front End Loader
 - Fordson Major Diesel Tractor, 3 PTH
 - 815 Massey Harris Tractor (100hrs on rebuilt engine)
 - EQUIPMENT**
 - 14ft Tandem Disc
 - 5ft 3PTH Rotary Brush Mower
 - 6 Bale Automatic Bale Stooker
 - 7ft International 3PTH Mower
 - John Deere 3 Bottom Plow
 - International 2 Bottom Plow
 - VEHICLES**
 - 1968 Ford Pick-Up w/ 3800 miles on rebuilt motor
 - 1981 Pontiac LeMans, 130,000 KM
 - TOOLS**
 - Wood Lathe w/ Copier & Stand
 - 12in Makita Wood Planer on Stand
 - Misc Wood Working Tools
 - MISCELLANEOUS**
 - Complete Horse Harness, Bridal, Halters
 - 2 Wheel Trailer w/ new box
 - #32 Motorized Meat Grinder
 - Welding Steel
 - Lumber, Birch, Maple, Ash, Burr Oak
 - PLUS HOUSEHOLD & ANTIQUES!!**
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Toll Free: 1-866-512-8992 www.pennerauctions.com
Sale Conducted by: PENNER AUCTION SALES LTD.

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We know that farming is enough of a gamble so if you want to sell it fast place your ad in the Manitoba Co-operator classifieds. It's a Sure Thing. Call our toll-free number today. We have friendly staff ready to help. 1-800-782-0794.

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- 1975 JD 4430, 158 loader sells after tractor
- 1953 Ford Jubilee
- Cat D4 crawler with angle dozer, good under carriage
- 1975 GMC C-60 Truck, 366 V8 5x2, 18 ft box and hoist only driven 44,000 one owner miles
- JD 3100 6 X 16 Plow
- JD 9350 20 ft press drills, much older machines and scrap iron
- JD Tractors seized = 730 RC diesel start, 3 model B's and one A.
- 4 super 92 MF Combines, two CI 9600, PTO Combines

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**Farm, Parts & Heavy Equipment
CONSIGNMENT AUCTION**
Saturday, July 6th, 2013 at 10:00am
Mitch's Tractor Sales Lot, in St-Claude MB
Large amount of items listed, such as
1985 Prowler Fifth Wheel Trailer (reserve \$4,500)
2009 Suzuki King Quad 4x4
Winch Passenger Seat (reserve \$6,500)
JD Model 60 Standard Axle (reserve \$4,500)
1996 Dodge 1-Ton DSL, New Trans & Transfer Case, 210,000-km
IHC Plow 6 -16 w/Coulters & JD Plow 8-16 w/Coulters
JD 24-ft. #100 Deep Tiller
Gehl 1860 5.6 Round Baler
OMC 21-ft. Self Propelled Hydrostatic Swather
Ford Gas Engine
Propane Weed Burner 500-gal Tank, 80 % Full
Recon II Swath Conditioner (reserve)
Concade Loader, Blade & Bale Fork for 280 Loader,
18.4x34 Tires, 18.4x38 Tires
Husky 3,000-gal Liquid Manure Tank
60-ft. Harrison Finger Harrow
JD 7000 Planter, Tire Changer, Roller Screen
8, 16-in. Allis Chalmers Semi Mount Plow w/Coulters & Packers,
Large Amount of JD Misc Parts for all JD Tractors
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This is a Partial List so see Website for the Complete List:
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AUCTIONEER'S NOTE: Balance of all Lumber Sold in Pallet Lots! Please check website www.kayesauctions.com for updates, pictures & deletions

TRUCKS 2000 Freightliner conventional truck FL-112 tandem w/drywall boom w/22' flat deck, 1100R tires (nice shape)* 2006 Ford F350 flat deck 4x4 (nice shape)* 2005 Ford F450 XL flat deck truck only 102,000 miles (nice shape)* **FORKLIFTS** Clark C251, 4500 lbs. Lift, propane* Cat DP50K, diesel* 1998 Lift King 8,000 lbs. All terrain forklift, 4-cyl. Perkins model LK8M22, diesel* **TRAILERS** 2004 Sokal 27' goose neck trailer w/tandem dual wheels (20,000 lbs.) 1991 CIM 20' pup tandem trailer w/ dual wheels, 25,000 lbs. (tires 1100R)* **ORANGE PALLET RACKING** Approx. 33-sections of orange pallet racking (4" bars) approx. 55-sections white Redi Racking shelving (2" & 4" bars)* approx. 60' Cantalever racking* **NEW INVENTORY (SOLD IN LOTS)** Balance of new lumber sold by lifts* all indoor hardware & supplies sold in lots* etc.

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62-FT 3PTH SPRAYER: 1989 Bloomhardt 62-ft 240 US-gal 3PTH sprayer, Raven 440 auto-rotate, from a spray coop, radar speed sensor on sprayer frame, all you need is one hydraulic to run pump, 12V to run monitor (3 boom section & press adj.) & 3PTH, \$3,500. 1999 Flexi-coil 67 XL sprayer, 94-ft, 1,250 Imperial-gal tank, hyd. drive pump, wheeled booms, wind screens, triple nozzle bodies, factory auto-rotate, 100-gal rinse tank, chemical mixing tank, disc marker, field ready, \$10,500. 1998 CIH 8480 soft-core round baler, excellent condition, always shedded, \$2,750. Phone:(306)739-2433 or (306)435-7125.

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FOR SALE: 25-FT MORRIS 725 cultivator w/harrows, \$1500; 60-ft Flexi-Coil harrow bar, \$950; 41-ft Westfield 6-in grain auger, Kohler magnum 16HP motor w/starter, \$850; 22-ft (28011's) Morris Seedrite drills, \$800; 6-ft swath roller, \$175. All the above are in good shape. (204)748-1024, Virden.

FOR SALE: 3-PTH POST hole auger w/6-in. & 14-in. auger, \$450 OBO. Phone (204)825-8354 or (204)825-2784.

FOR SALE: 7155 HESTON Forage Harvester, complete w/2-row corn head & PU head, good condition, field ready, \$2,650. Phone:(204)325-7278.

FOR SALE: 930 CASE, runs good, hand clutch, needs one rear tire, \$2,500. Swather mover 4-wheel, used for 400 Versatile, \$400. Phone:(204)659-4448.

FOR SALE: AIR KIT parts for 52-ft. cultivator, offers. Phone (204)743-2145 or (204)526-5298.

FOR SALE: MACDON MODEL 5000 16-ft mower conditioner, VGC, \$4800; Model 358 NH mixmill w/power bale feeder, new hammers, \$3500; 200-Bu portable metal creep feeder w/panels, used very little. Phone (204)352-4489 leave message if no answer please.

FOR SALE: MF PT #852 combine, full monitor & new pick-up; Case IH 725 PT swather. All items shedded. Phone:(204)858-2117

GRAVITY WAGONS NEW: 400B, \$7,100; 600B \$12,000; used 250-750-bu, used grain carts, 450-1100-bu, EZ475 \$7,900; JM875, \$20,000; weigh wagon, \$2,500; dual stage & Kwik Kleen screeners; REM 552 Grainvac \$3,500; REM 2500, \$9,500; Brandt 4000, \$7,000; Brandt 4500, \$8,000; Valmar applicator, \$1,500; Phoenix harrow, 42-ft, \$9,500; Summers 72-ft, \$14,000; usd fertilizer spreaders, 4-9 ton. Phone:(204)857-8403.

JD 450 9-FT TRAILER more w/3 knives, \$1,500; MTD 14.5hwp, 42-in cut riding mower, \$475; 2 18.4x38 dual tires w/spacers & clamps, \$550; 6-ft Douglas 3PTH brush mower, \$950; MF 8-ft trailer more, complete for parts, \$400; prong-type stone picker, \$475. All equipment OBO. Phone:(204)767-2208.

FARM MACHINERY
Machinery Miscellaneous

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SUPER W6 W/F11 LOADER, older wire & diamond harrows, 21-ft 100 IHC drill, 70-ft IHC deep tiller cultivator. Phone (204)445-2220 morning or evenings.

VALMAR 240 W/HOSE, \$1,500; Valmar PT Honda engine, \$5,000; Rotary mowers JD 5-ft., \$900; 6-ft. 3PH, \$1,100; Woods 6-ft. PT \$1,600; 10-ft. Batwing, \$3,500; JD 709 PT, \$3,000; Sickle Mowers JD 9-ft., \$2,200; NH 9-ft., \$2,200; IHC 9-ft., \$1,750; Vermeer R23 Rake, \$7,000; NH 144 swath turner, \$3,000; 166 NH, \$3,500; 14 Wheel rake, \$6,500; Danuser Post auger, \$1,200; New hyd post auger for skidsteer, \$2,250; Bale spear, \$400. Phone (204)857-8403.

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FOR SALE: POLLED BLACK Angus & Hereford bulls. Good selection of yearlings & 2-yr olds, semen tested & delivery available. Call Don: (204)873-2430.

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- If you're not the owner/operator of a farm are you:
- In agri-business (bank, elevator, ag supplies etc.)
 - Other

Total farm size (including rented land) _____ Year of birth _____

My Main crops are:	No. of acres	My Main crops are:	No. of acres
1. Wheat	_____	10. Lentils	_____
2. Barley	_____	11. Dry Beans	_____
3. Oats	_____	12. Hay	_____
4. Canola	_____	13. Pasture	_____
5. Flax	_____	14. Summerfallow	_____
6. Durum	_____	15. Alfalfa	_____
7. Rye	_____	16. Forage Seed	_____
8. Peas	_____	17. Mustard	_____
9. Chick Peas	_____	18. Other (specify)	_____
Livestock Enterprise	No. of head	Livestock Enterprise	No. of head
1. Registered Beef	_____	5. Hog farrow-to-finish (# sows)	_____
2. Commercial Cow	_____	6. Finished Pigs (sold yearly)	_____
3. Fed Cattle (sold yearly)	_____	7. Dairy Cows	_____
4. Hog Weaners (sold yearly)	_____	8. Other Livestock (specify)	_____

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			9	3		4		
8		5						
3	9		8		2			1
9	7				8		1	
	5		1				4	9
6			7		1		8	4
						1		3
		8		4	9			

Puzzle by websudoku.com

Last week's answer

3	5	9	8	1	4	6	2	7
4	8	6	7	2	9	1	5	3
7	2	1	3	6	5	8	4	9
2	4	3	9	7	6	5	8	1
8	1	7	4	5	2	3	9	6
9	6	5	1	3	8	4	7	2
5	3	4	6	9	7	2	1	8
1	9	8	2	4	3	7	6	5
6	7	2	5	8	1	9	3	4

Puzzle by websudoku.com

Here's How It Works:

Sudoku puzzles are formatted as a 9x9 grid, broken down into nine 3x3 boxes. To solve a sudoku, the numbers 1 through 9 must fill each row, column and box. Each number can appear only once in each row, column and box. You can figure out the order in which the numbers will appear by using the numeric clues already provided in the boxes. The more numbers you name, the easier it gets to solve the puzzle!

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Fax: 204-822-9111 Email: darmstrong@jodaleperry.com
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Farm Programming each Weekday...

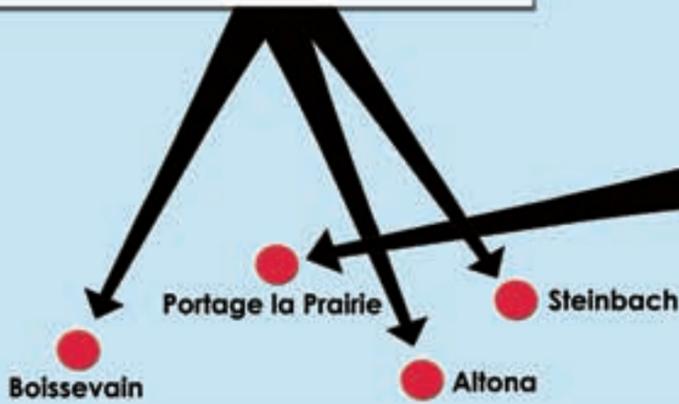
Farm Desk Review		5:45 a.m.
Farm News	6:24 a.m., 6:53 a.m.,	7:35 a.m.
Farm Market News	10:05 a.m.,	1:50 p.m.
Country Comment		12:05 p.m.
Noon Markets		12:10 p.m.
Farm News	12:22 p.m.,	1:22 p.m.
Prairie Ag Wire		12:30 p.m.
Farm Calendar		12:50 p.m.
Farm Forum		1:05 p.m.
Market Update		1:13 p.m.
News Journal		1:15 p.m.

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Portage la Prairie

Farm Programming each Weekday...

Farm Market Review	6:45 a.m.,	12:43 p.m.
Farm Calendar	6:50 a.m.,	12:53 p.m.
Auction Mart Report (W+Th)		7:08 a.m.
Farm News		7:25 a.m.
Farm Market News	10:25 a.m.,	1:54 p.m.
Country Comment		12:05 p.m.
Auction Mart Report (Th+F)		12:09 p.m.
Prairie Ag Wire		12:31 p.m.
Farm Market Review		12:43 p.m.
Midday Farm News		12:54 p.m.
Heartland Livestock Sales (M,Tu+F)		2:05 p.m.
Winnipeg Livestock Report		4:25 p.m.
Auction Mart Report (W+Th)		5:25 p.m.



Barry Lamb
 Southwest Region
 Correspondent



Rae Hathaway
 Central Region
 Correspondent