

# WINTER CEREALS

CANADA 

Incorporating  and  News

# GROWER

ISSUE NO. 56

FALL/WINTER 2015

OFFICIAL NEWSLETTER OF WINTER CEREALS

## Directors Checkout Research Projects Funded By SWCDC and WCMi at University of Saskatchewan



Above: Dr's Chibbar and Baga with SWCDC and WCMi directors.

Below: Your Directors inspect new varieties under consideration for advanced testing.



### Changes to Levy Collection Are Coming. SWCDC and WCMi Looking To The Future

At the end of July in 2017 the federally managed Western Wheat and Barley levy program is scheduled to come to an end. This levy has been in place since the CWB was abolished and has been the funding source for the Western Grains Research Foundation, Canadian International Grains Institute and the Canadian Malting Barley Technical Centre. With the end of this levy (\$0.48 per tonne on wheat and \$0.50 on Barley) a portion of the responsibility for funding work carried on by these three organizations will fall on the various provincial wheat and barley commissions or representative bodies (ie: SWCDC and WCMi). This means that SWCDC and WCMi will have to adjust our levy rates to include the dollars that were collected under the federal levy. To do this requires that our current levy rate of \$0.50 per tonne of grain marketed will need to be increased to \$0.98 per tonne. No net change to producers. Only a shift in where the money is directed.

To do this requires approval of the membership at an Annual General Meeting. Therefore to ensure that both groups have everything in order for the transition both organizations will bring a motion to the floor of their 2016 annual meetings to approve the increase and authorize the directors of each group to prepare any necessary documents, Board Orders etc. required and submit them to the relevant provincial supervisory bodies to ensure that all regulatory changes are final by July 31, 2017.

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Winter Cereals Manitoba and the Saskatchewan Winter Cereals Development Commission are significant funders of research work done by Dr. Ravi Chibbar and Dr. Monica Baga on the identification of genetic markers for winter hardiness in winter wheat.

This summer was the first year of actual field trials of varieties selected on the basis of winter hardiness genetic markers. Your directors held a joint meeting in Saskatoon and the highlight of the visit was a trip to the research labs and field plots. Directors were able to view the lab processes that lead to the field plots as well as greenhouse screening trials.

This has grown into a 5 year project with the Western Grains Research Foundation joining in to fund this critical research endeavour.

Dr. Chibbar and Dr. Baga review their research each year at the SWCDC AGM held during Crop Production Week in Saskatoon. Mark January 11, 2016 on your calendar to learn more about this ground breaking work.

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## Lethbridge Report – Triticale, Rye and Winter Durum.: Dr. Jamie Larsen

**Table 1. 2014-15 winter triticale grain and biomass yield trial results from Lethbridge, AB. Trial took place under irrigation. Not all data from the trial is presented in the table.**

Variety	Yield (t/ha)	Yield Rank	Rel. Yld Luoma	Rel. Yld Moats	Rel. Yld Hazlet	Biomass (kg/ha)	Biomass Rank	Rel. Yld Luoma	Rel. Yld Moats	Rel. Yld Hazlet	Winter Survival	Height (cm)	Lodge (1-9)	Maturity (Julian)
Luoma	7.2	13	100.0	106.3	97.0	14107.4	26	100.0	87.4	76.3	100.0	146.7	3.5	212.0
Metzger	6.4	21	88.7	94.3	86.1	17980.6	8	127.5	111.5	97.2	100.0	140.8	3.7	212.3
Bobcat	6.1	23	85.1	90.5	82.6	14281.0	24	101.2	88.5	77.2	100.0	121.7	1.5	207.0
Pika	6.7	18	93.5	99.4	90.7	16929.1	15	120.0	104.9	91.5	100.0	145.0	3.8	209.3
Moats	6.7	17	94.1	100.0	91.3	16133.3	18	114.4	100.0	87.2	98.3	103.3	1.0	204.7
Hazlet	7.4	9	103.0	109.6	100.0	18495.1	5	131.1	114.6	100.0	100.0	137.5	2.0	204.0
Fridge	7.3	11	101.8	108.2	98.8	18147.0	7	128.6	112.5	98.1	100.0	144.2	3.5	208.3
HyOctane	9.8	1	136.8	145.4	132.8	20489.8	2	145.2	127.0	110.8	96.7	115.8	1.0	203.7
W. Trit Exp1	7.6	7	106.7	113.4	103.5	20857.2	1	147.8	129.3	112.8	100.0	108.3	1.2	205.3
W. Trit Exp2	7.9	5	109.7	116.6	106.4	17341.2	12	122.9	107.5	93.8	98.3	102.5	1.0	203.7
W. Trit Exp3	9.1	2	126.2	134.2	122.5	17899.6	10	126.9	110.9	96.8	100.0	113.3	1.2	205.3
W. Trit Exp4	8.0	4	110.9	117.9	107.6	16879.5	16	119.6	104.6	91.3	100.0	101.7	1.0	204.0
W. Trit Exp5	9.0	3	125.6	133.5	121.9	17960.9	9	127.3	111.3	97.1	100.0	104.2	1.0	207.0
W. Trit Exp6	7.7	6	107.9	114.7	104.7	19153.8	4	135.8	118.7	103.6	98.3	120.8	1.0	205.3
Mean	7.1					17041.8					99.6	121.1	1.9	206.7
LSD(0.05)	1.3					3885.2					3.0	5.6	0.6	3.4

### Summary of 2015 Harvest trials at Lethbridge Research Station AFC..

The trials were seeded in the last week of September or first week of October, which wasn't ideal, however Lethbridge had an extremely mild winter with almost no winter survival issues. It is important to be clear on this as several of the winter triticale and durum wheat lines tested in these trials had serious winter survival issues at Vauxhall, AB. These trials demonstrate yield potential only and work is ongoing to improve cold tolerance. These trials are also small plot trials meaning the yield numbers can be inflated and we tend to be aggressive in our crop management practices!

**Table 2. 2014-15 fall rye grain yield trial results from Lethbridge, AB. Trial took place under irrigation. Not all data from the trial is presented in the table.**

Variety	Type	Yield (t/ha)	Yield Rank	Rel. Yld Moats	Rel. Yld Hazlet	Winter Survival	Heading (Julian)	Height (cm)	Lodge (1-9)	Maturity (Julian)
Brasetto	Hybrid	9.9	3	139.2	131.7	100.0	144.0	128.3	1.7	207.5
Guttino	Hybrid	10.4	2	146.0	138.2	100.0	144.7	133.7	1.3	208.0
Bono	Hybrid	11.1	1	155.6	147.3	100.0	146.0	130.0	1.3	206.5
Hazlet	OP	7.5	19	105.7	100.0	100.0	143.0	151.7	2.0	205.5
Elevate	W.Wheat	6.2	21	86.8	82.2	100.0	160.7	100.0	1.0	204.5
Moats	W.Wheat	7.1	20	100.0	94.6	100.0	160.0	111.7	1.3	204.5
Mean		8.5				99.7	145.5	131.5	1.5	205.5
LSD(0.05)		0.8				2.9	1.7	10.2	0.8	3.0

The winter triticale biomass and grain yield trial demonstrated several key points. First, triticale has tremendous grain and biomass yield potential in comparison to winter wheat and fall rye. Second, experimental lines demonstrate that current varieties available to producers don't reach the maximum potential for the crop. Breeding efforts are underway at AAFC-Lethbridge to improve cold tolerance and maximize grain and biomass yield potential for farmers.

The fall rye grain yield trial was a part of a larger evaluation of fall rye, but demonstrates the yield potential of rye and especially the new hybrid rye varieties on the

**Table 3. 2014-15 winter durum grain yield trial results from Lethbridge, AB. Trial took place under irrigation.**

Variety	Yield (t/ha)	Yield Rank	Rel. Yld Moats	Winter Survival	Heading (Julian)	Height (cm)	Lodge (1-9)	Maturity (Julian)
W.Durum Exp1	7.3	2	100.3	100.0	159.7	93.3	2.3	210.5
W.Durum Exp2	5.3	11	72.6	100.0	159.3	111.7	4.0	205.5
W.Durum Exp3	5.8	9	78.9	100.0	161.0	110.0	2.7	205.5
W.Durum Exp4	5.2	12	70.5	100.0	159.3	125.0	4.3	204.5
W.Durum Exp5	5.3	10	72.7	100.0	164.7	135.0	2.7	211.5
W.Durum Exp6	7.5	1	102.5	96.7	160.3	86.7	1.3	206.5
W.Durum Exp7	6.8	5	92.9	100.0	159.0	78.3	1.3	206.5
W.Durum Exp8	7.0	4	95.3	100.0	157.0	78.3	1.3	204.5
W.Durum Exp9	6.0	8	81.7	100.0	158.3	85.0	1.3	208.5
W.Durum Exp10	6.2	7	84.3	100.0	158.7	78.3	2.0	205.5
Elevate	6.8	6	92.3	76.7	162.3	93.3	1.0	207.5
Moats	7.3	3	100.0	100.0	160.0	103.3	2.0	206.0
Mean	6.4		97.8	160.0	98.2	2.2	206.9	
LSD(0.05)	1.1		10.3	1.4	9.9	1.2	4.7	

market. Bono demonstrated at grain yield average of 11.1 t/ha or approximately 178 bu/ac! For those thinking about growing corn, you might want to make some comparisons! It is important to note that the OP rye variety Hazlet also out yielded winter wheat, demonstrating the yield potential of rye in general. Work continues on open-pollinated rye at Lethbridge focusing on improving yield, falling numbers and reducing ergot. Current funding from SWCDC is critical for this work to move forward.

The winter durum trial was a demonstration based trial which showed yield potential of this crop. Most of the lines gathered from this trial were sourced from genebank's and originated from eastern European breeding programs. Winter survival of these lines is generally poor when pushed by Mother Nature. Work is continuing, in collaboration with Dr. Rob Graf, to bring more cold tolerance into winter durum's to be able to accurately determine the potential for farmers, as well as to feed into perennial wheat development.

### WINTER CEREALS MANITOBA INC

#### NOTICE OF ELECTION OF DIRECTORS AND GENERAL MEETING

The Annual General Meeting of Winter Cereals Manitoba Inc. will be held in Portage la Prairie, Manitoba on March 16, 2016 at the Canad Inns.. During the meeting elections will be held for several positions on the Winter Cereals Manitoba Inc. board of directors.

If you are interested in becoming involved with promotion and research pertaining to Winter Wheat in the Province of Manitoba through participation on the Board of Directors please contact the Winter Cereals Manitoba Inc. office to learn more about this rewarding possibility. Directors participate in approximately 5 board meetings a year and contribute time to WCMI. Directors are called on to represent the WCMI at conferences and meetings that impact the winter wheat industry in Manitoba. Expenses are reimbursed to Directors.

**FOR MORE INFORMATION, CONTACT J. DAVIDSON, EXECUTIVE DIRECTOR at 1-866-GRAIN-11 • jake@wcmi.info**

#### NOTICE OF ANNUAL GENERAL MEETING SASKATCHEWAN WINTER CEREALS DEVELOPMENT COMMISSION

**JANUARY 11, 2016**  
**Saskatoon Inn Hotel & Conference Centre**  
**2002 Airport Drive**  
**Saskatoon, SK, Canada, S7L 6M4**

**REGISTRATION 8:30 AM**

**BUSINESS MEETING**  
**9:00AM TO 10:00 AM**

**INDUSTRY INFORMATION SESSIONS**  
**10:00 AM TO 12:30 PM**

Hear about research being funded by the SWCDC to enhance the production of winter cereals and much, much more!  
All producers are invited. Only producers who have paid the Winter Cereals levy since August 1, 2013 and not requested a refund are eligible to vote.

**FOR MORE INFORMATION CONTACT**  
**J. DAVIDSON, EXECUTIVE DIRECTOR**  
**1-866-472-4611**  
**jake@swcdc.info**

#### Advertise in the Winter Cereals Grower

Winter Cereals Canada invites interested individuals and companies to advertise in the *Winter Cereals Grower*.

8 ½ x 11 .....	\$550.00
6 ¼ x 8 ¼ .....	\$385.00
4 ¼ x 5 ½ .....	\$300.00
2 ½ x 2 ¼ .....	\$150.00

Multiple insertion (3) discount 10% if booked together.  
Copy can change.

GST will not be added to these prices. All advertising must be camera ready or suitable for scanning. Advertorial content is accepted at the standard rates. Advertising and copy deadlines are March 1st, June 1st and October 1st.

Material should be submitted to:

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**1-204-874-2330 1-866-472-4611**  
**jake@wintercerealscanada.org**

#### WINTER CEREALS CANADA INC NOTICE OF ELECTION AND ANNUAL GENERAL MEETING

The Annual General Meeting of Winter Cereals Canada Inc. will be held in Portage la Prairie, Manitoba on March 16, 2016 at the Canad Inns.. During the meeting elections may be held for several positions on the Winter Cereals Canada Inc. board of directors.

Winter Cereals Canada Inc. provides management services and co-ordinates the common interests of producer members of Winter Cereals Manitoba Inc. and the Saskatchewan Winter Cereals Development Commission. If you are interested in becoming involved Winter Wheat in the provinces of Manitoba and Saskatchewan through participation on the Board of Directors please contact Winter Cereals Canada Inc.. Directors participate in approximately 5 board meetings a year and contribute time to WCMI.

Potential Directors should be current members of either Winter Cereals Manitoba Inc. or the Saskatchewan Winter Cereals Development Commission. Directors are called on to represent WCMI at conferences and meetings that impact the winter wheat industry in Western Canada. Expenses are reimbursed to Directors.

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*If you no longer wish to receive the Winter Cereal Grower newsletter, please send us either an e-mail with your name and address or send us a note with your mailing label requesting that your name be removed from the mailing list.*



# MANITOBA VARIETY INFORMATION AVAILABLE TO PRODUCERS ONLINE: Checkout your choices now!

*Pam de Rocquigny, MSc., P.Ag. Provincial Cereal Crops Specialist*

For quick producer access the 2015 Variety Market Share Report is available for download from the Manitoba Management Plus Program (MMPP) Web site [http://www.mmpp.com/mmpp.nsf/mmpp\\_index.html](http://www.mmpp.com/mmpp.nsf/mmpp_index.html). It is available under the Regional Analysis Tools section.

A quick review of the pertinent winter wheat and spring wheat information is summarized below.

**Winter Wheat:** There was approximately 159,000 acres of commercial winter wheat seeded in the fall of 2014 in Manitoba, as reported by producers for AgriInsurance purposes (acres do not include pedigree or organic production).

The variety **Emerson**, at 54.2% of Manitoba's commercial winter wheat acreage, was the most popular variety grown in Manitoba. Emerson was first released to producers in the fall of 2014 and is the first winter wheat variety with a Resistant (R) rating to fusarium head blight.

**CDC Falcon** is in the second spot at 20.7%, staying in the same position as 2014 (30.5%). In third spot is **Flourish** at 9.8%; in 2014 Flourish was the variety grown on the most acres in Manitoba (55.4%). Rounding out the top 5 include **CDC Buteo** at 8.4% and **Peregrine** at 1.5%. The top five varieties were grown on 94.6% of winter wheat acres in Manitoba. The remaining 5.4% of acres were seeded to 8 other winter wheat varieties.

**Red Spring Wheat:** In 2015, there was approximately 2.5 million acres of commercial red spring wheat seeded in Manitoba, as reported by producers for AgriInsurance purposes (acres do not include pedigree or organic production).

The variety **Carberry**, at 21.8% of Manitoba's commercial red spring wheat acreage, was the most popular variety grown in Manitoba in 2015. It was also the most popular variety in 2014 (35.1%). **Cardale** is in the second spot in 2015 at 20.7%, moving up two spots from 2014 (9.1%). In third spot is **Harvest** at 13.4%. Harvest has consistently placed in the top 5 of most popular CWRS varieties in Manitoba over the past few years, showing its popularity with producers. However, Harvest is one of the 25 CWRS varieties being reclassified by the Canadian Grain Commission August 1, 2017. Rounding out the top 5 include **AAC Brandon** at 10.4% and **Glenn** at 9.9%. **AAC Brandon** is new variety, available to producers for the first time for commercial production in 2015. The top five varieties were grown on 76.2% of red spring wheat acres in Manitoba.

Rounding out the top ten are the varieties **CDC Plentiful**, **WR859 CL**, **AC Domain**, **CDC Stanley** and **Muchmore**. The top 10 varieties together were grown on 88.2% of red spring wheat acres in Manitoba. The remaining 11.8% of acres were seeded to 44 other red spring wheat varieties, many of those newer varieties gaining in acres.

## **2015 MCVET Winter Wheat and Fall Rye Data Available!**

Since 2008, MCVET (Manitoba Crop Variety Evaluation Team) has been publishing winter cereal data collected from their trials shortly after harvest to help farmers and seed growers in Manitoba make variety decisions. In 2015, data is being released for five locations – Boissevain, Carman, Melita, Roblin and Winnipeg – for winter wheat and fall rye. Here are a few tips to keep in mind when looking through the data.

**2015 Multi-Site Yield Data.** In the Winter Wheat Yield Comparisons table and the Fall Rye Yield Comparisons table, yield data from 5 locations is presented. Using this table, farmers can make head to head comparisons between varieties at each site, using the statistical information provided in the grey shaded area located at the bottom of the table.

While data from single sites is often more interesting, individual site data and even data accumulated over several sites in a single year, must always be viewed with caution. For example, the new winter wheat variety AAC Elevate was tested for the first time by MCVET in 2014/15, as were the new hybrid fall rye varieties of Brasetto and Guttino, so additional caution must be exercised when evaluating the performance of these varieties.

Ideally, farmers should look at yield data collected over many years and locations (long term yield data) in combination with the multi-site yearly data and select those varieties that perform well not only in their area but across locations and years. Farmers are encouraged to look at past SEED MANITOBA guides, available online at [www.seedmb.ca](http://www.seedmb.ca), to see how consistent variety performance is between sites and locations. And although 2015 data has not been incorporated yet, farmers can also visit [www.seedinteractive.ca](http://www.seedinteractive.ca) where they can select multiple varieties, locations and years that best compare with their farm, while still offering the ability to choose their own check variety.

**But it's not just about yield.** Although yield is generally the first information farmers look at, variety characteristics such as maturity, height,

standability (resistance to lodging) and disease resistance are critical to maximizing yield potential, end quality and therefore economic returns. Consider 2015 where stripe rust appeared early in the season in winter wheat. Or 2014 where fusarium head blight impacted yield and quality of the winter wheat crop. Selecting a variety with a strong disease package is key to protecting yield and quality.

Agronomic and disease resistance information for the winter wheat and fall rye varieties tested by MCVET in 2014/15 is provided in the Variety Descriptions tables. For winter wheat, please note that long term yield (as well as protein data and site years), does not include the 2015 data (shaded blue area in the table). MCVET is waiting for the remaining sites so data can be incorporated into the mixed model analysis used to generate the long term yield data. For fall rye, long term yield data is not presented as MCVET is updating the fall rye database to conduct mixed model analysis. Long term yield data for both crop types will be available in SEED MANITOBA 2016 in December. *Note: For information on varieties not tested by MCVET in 2014/15, please refer to the most recent edition of SEED MANITOBA.*

What is not shown in the variety description tables is the winter wheat variety AAC Elevate has resistance to the wheat curl mite, the vector for wheat streak mosaic virus. As well, the hybrid fall rye varieties Brasetto and Guttino have high falling numbers compared to varieties like Hazlet or Prima.

## **Quality testing is currently underway.**

MCVET not only collects yield data, but quality information from composite samples obtained after harvest. Protein content analysis will be done by our contractor BioVision Seed Labs. As well, with funding from Winter Cereals Manitoba Inc., fusarium damaged kernels (FDK) and deoxynivalenol (DON) will be determined from harvested samples. Look for that additional quality data in SEED MANITOBA 2016.

**Final Thoughts.** Regardless of crop type, farmers should continually evaluate the performance of old and new varieties, using available data and speaking with extension professionals and of course their local seed growers. It is the seed growers who see varieties first hand as they grow the pedigreed seed! So after farmer's have made their variety selections, consider planting certified seed to take full advantage of the variety's full genetic potential.

## PEOPLE ON THE MOVE:

### **LISA NEMETH: Canadian International Grains Institute Winter Cereals Technical Specialist at Cigi – Update**

Lisa Nemeth was hired by Cigi in July 2014 as Technical Specialist, Winter Wheat. This position is funded by growers through Winter Cereals Manitoba, Saskatchewan Winter Cereals Development Commission, and the Alberta Wheat Commission to focus on market development activities related to winter wheat. Recently, Lisa transitioned into a new role at Cigi as Director, International Markets but will remain the contact for all winter wheat technical activities while a search for a replacement for this position is completed. Winter wheat activities are ongoing at Cigi where recently harvested samples of CWRW are currently being gathered and will be assessed for quality in Cigi's facilities to support the continued promotion of winter wheat.

### **REX NEWKIRK: University of Saskatchewan. Research Chair – Canadian Feed Research Centre (CFRC).**

The University of Saskatchewan, along with its partners in industry and government, has established feed research and development as an integral component of its vision to establish a world-class cluster in bio products education, research and development and commercialization. This vision includes scientific strength in feeds, animal nutrition and related disciplines in the Colleges of Agriculture and Bioresources, Engineering and Veterinary Medicine. In addition to extensive collaborative expertise, the recently completed CFI-funded Canadian Feed Research Centre (CFRC) located in North Battleford, Saskatchewan provides state-of-the-art feed processing capacity including industrial, pilot and lab scale capabilities.

Dr. Newkirk will provide overall leadership in feed processing at the University of Saskatchewan and in this role, interact with researchers in the Department of Animal and Poultry Science, Plant Sciences and the Crop Development Centre, Prairie Swine Centre Inc., the Western College of Veterinary Medicine and other relevant units. Dr. Newkirk with the support of the CFRC manager, Feed Industry Liaison officer and a Feeds Industry Advisory group (National and International), will serve as a resource for the Canadian feed industry and assist in the development and commercialization of feed resources

Dr. Newkirk assumes his new responsibilities on November 1, 2015.



## Winter Wheat Market Commentary: Chris Ferris | Senior Grains Analyst, Canada | Informa Economics Inc.

E-Mail [chris.ferris@informaecon.com](mailto:chris.ferris@informaecon.com)

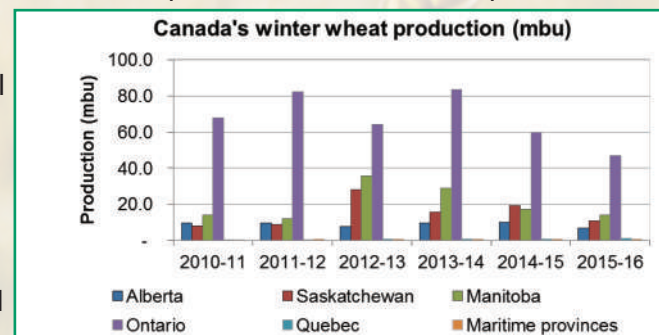
The US HRW crop is expected to be 856 million bushels (mbu) in the 15/16 crop year, up from 738 mbu in 14/15 on lower abandonment and higher yields of 36.2 bu/acre. HRW 15/16 ending stocks are forecast up at 374 mbu. Greater HRW production, combined with a general increase in all world wheat (expected to be 731 MMT, driven by increases in the EU, Canada, & Russia) and world corn (978 MMT; of which 345 MMT is USA) has the KWZ15 market at around US\$5.02/bu, with a likely range of between US\$4.60/bu and US\$5.80/bu.

Canada's overall winter wheat has been in a down trend since 2013-14, driven by lower seeded area. Total production in 15/16 is expected to total 80.4 mbu, with expected production in SK and MB of 10.7 mbu and 14 mbu, respectively.

With the USD/CAD exchange rate at around US\$0.747 and using current reported cash prices for CWRW and CPRS from various Canadian agriculture departments, we expect that price will tend to be within the following ranges for 15/16:

- MB CWRW Wpg: CDN\$5.62/bu to CDN\$7.23/bu (curr basis -CDN\$0.54/bu)
- SK CPRS: CDN\$4.81/bu to CDN\$6.42/bu (curr basis -CDN\$1.35/bu)
- AB CPRS: CDN\$5.12/bu to CDN\$6.73/bu (curr basis -CDN\$1.04/bu)
- CPRS FOB WC: CDN\$7.06/bu to CDN\$8.66/bu (curr basis CDN\$0.90/bu)

Fall planting conditions were generally favourable in Western Canada, so much of the intended acres likely were planted, so expected larger seeded area for winter wheat.



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Winter Cereals Manitoba Inc. is proud to provide funding for the MCVET trials on behalf of Manitoba winter wheat producers and our members.