



## CHAIR MESSAGE

I hope your spring is off to a good start! At SaskBarley, we are gearing up for another big year.

Although last year interrupted a lot of our plans, we are still on track for growth and opportunity.

For example, in March, we announced that we will fund another approximately \$1 million in barley research over the next four years — a major advancement for barley producers in Saskatchewan — as a result of a call for research proposals we issued last year. The total value for the funded projects, including in-kind and other support, is more than \$2.3 million.

The goal of the call for proposals was to invest in new and exciting barley research — not available through traditional research channels



— to benefit Saskatchewan producers. I am proud to say that we succeeded in our mission. We received 18 full applications, of which we approved nine — all focused on areas such as: exploring novel mechanisms of resistance to fusarium head blight;

***“We will fund another approximately \$1 million in barley research over the next four years — a major advancement for barley producers in Saskatchewan — as a result of a call for research proposals we issued last year.”***

management of other diseases in barley; optimizing processing practices; and enhancing malting barley quality for beer production.

With this latest investment, we are progressing towards our goal for barley research investments, now allocating more than 60 per cent of our annual budget towards this goal.

We have also slowly been ramping up some of our digital communications to help stay in touch. Last year we launched a monthly e-newsletter and, this year, we'll be enhancing it even more with monthly market outlooks from industry experts. If you're not already on our email list, sign up on our website

or contact us directly: [info@saskbarleycommission.com](mailto:info@saskbarleycommission.com)

In coming months, we will also be launching our new podcast, The Barley Bin, as an alternative way to keep you informed about all the latest information regarding barley production and marketing. Watch for more news on that.

Finally, we have a new website in the works! We just wanted to enhance our current site to ensure it's functional and easy for you to use, and also providing you our latest information in the most efficient ways. Watch for that in coming months as well.

It's an exciting time in the barley industry and we wish you a safe and productive seeding season.

**Matt Enns**  
Chair, SaskBarley

**SaskBarley**   
DEVELOPMENT COMMISSION



# NEWS

## SASKBARLEY ANNOUNCES CHANGES TO THE BOARD

In January, we made changes to our executive in preparation for three of six Directors completing the maximum of two consecutive terms in January 2022.

Matt Enns, who joined the Board last year, replaced Jason Skotheim as the Board Chair.

Enns actively farms in a multi-generational grain operation alongside three other owner-operators near Rosthern, SK. He is also a co-founder of Maker’s Crafted Malts, Saskatchewan’s only craft malting facility.

Skotheim replaced Brent Johnson as Vice-

Chair and will provide valuable mentorship during his final year on the board. Johnson, who has interests in feed barley, will also focus on lobbying for increased export and sales reporting in Canada throughout 2021 (following a related resolution at our AGM earlier this month).

Johnson and Allen Kuhlmann are also in their final year of consecutive terms on the Board. Keith Rueve, on his second term, and Glenn Wright, who joined the Board last year, complete the team of six.

Skotheim and Johnson served as Chair and Vice-Chair for six years. Their respective areas of expertise and interest were drivers for many of the positive developments SaskBarley has overseen in recent years. 🍷

## WE NEED YOU!

- > Are you interested in helping discover new and innovative ways to grow barley in Saskatchewan?
- > Do you have great ideas and opinions related to growing and marketing Saskatchewan barley?
- > Do you have interest in helping grow global marketing opportunities for Canadian barley?
- > Are you interested in having new experiences, travelling (when regulations permit) and meeting new and likeminded people?
- > Are you interested in helping all farmers in Saskatchewan be more sustainable and successful in their businesses?

If you answered “yes” to any of the above questions, we have an opportunity for you! It’s an election year for us; we will need to fill three positions on our Board as of January 2022.

**Nominations will open in June so watch for more information. If you have any questions in the meantime and/or are interested in learning more, please reach out to any of our current Directors or staff any time.**

## Table of Contents

*Promising new crop inputs for barley* ..... PAGE 3

*SaskBarley official position on Code of Practice* ..... PAGE 4

*CMBTC recommended list* ..... PAGE 5

*Getting the most out of malt barley* ..... PAGE 6



## BOARD OF DIRECTORS

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# Promising new crop inputs for barley this spring

**A new seed treatment and plant growth regulator could be very beneficial for Saskatchewan barley producers**

**T**here are some new crop products available to barley producers this growing season that hold great potential to help with your crop production.

Teraxxa F4 is a BASF insecticidal seed treatment that controls and eliminates wireworm, which has been a significant issue for barley producers in Saskatchewan.

MODDUS, a plant growth regulator from Syngenta, can reduce height and lodging in cereal crops, which will be extremely helpful for barley producers in Saskatchewan, says Mitchell Japp, SaskBarley's Research and Extension Manager.

"Barley is prone to lodging, which reduces yield and quality," he says. "Higher yielding environments and management practices may lead to increased problems with lodging. Plant growth regulators can be an effective tool to reduce the risk of lodging"

The active ingredients in both these products — broflanilide, in Teraxxa F4, and trinexapac-ethyl, in MODDUS — were approved by Health Canada's PMRA in 2020, meaning they are new to the Canadian marketplace. In addition to PMRA approval, the Cereals Maximum Residue Limit Assessment Committee, led by Cereals Canada has reviewed both of these products as well. They review new products as well as those that may have market access limitations and categorize any with potential



issues as either yellow (be informed) or red (do not use) through the Keep it Clean! campaign. Both Moddus and Teraxxa F4 were reviewed by this committee and had no additional recommendations regarding market access.

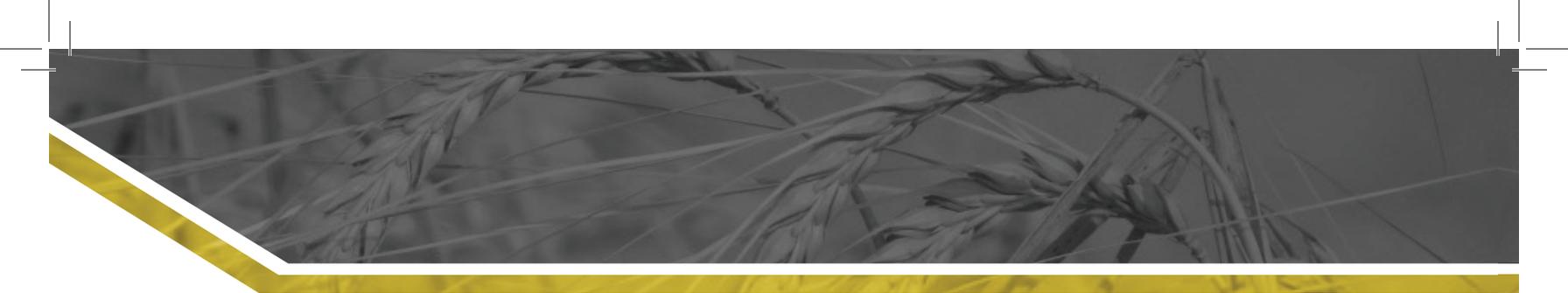
"End-users are invested in ensuring the grain they are buying is safe and that proper due diligence has been done to ensure there are no negative impacts to brew or malt quality," Japp says.

The safest course of action is to seek input from professionals before you use any new

product on your crop. Talk with your grain buyer, including your grain company rep, and/or local elevator operators about how new crop products you plan to use could affect your marketing plans.

Canada has a reputation as a trusted provider of consistently high quality and safe crops to the world. Taking the time to discuss the use of new products with your grain buyer beforehand is an easy step to help to keep that reputation intact. 

For more information, visit the Saskatchewan Guide to Crop Protection and [keepingitclean.ca](https://www.keepingitclean.ca)



# SaskBarley issues response to Responsible Grain Code of Practice

You may have heard chatter recently about the Sustainable Grain Code of Practice project, a tool currently being developed by the Canadian Roundtable for Sustainable Crops to showcase to consumers and buyers of Canadian agriculture products that our crops are sustainably produced.

The CRSC is a member-based organization made up of federal government, industry, customer and environmental organizations. SaskBarley is not a member.

In March we issued an official response to this issue, stating that we are opposed to the

current draft as is it written. We further stated that our Board believes in sustainability from an economic, environmental and social perspective, and that these measures of sustainability should apply across the entire value chain. Finally, we stated that, while we understand there is another round of consultations scheduled for November 2021, we feel this should only happen if the current draft has been significantly revised.

We will continue to advocate on your behalf on this issue going forward and keep you updated on developments. 🌱

## Our official position on the Code of Practice is that we request that the following criteria be used in any evaluation of a 'code of practice':

1. A Code of Practice should deliver value to producers that choose to adopt it.
2. A Code of Practice should encompass the entire Canadian agricultural industry and value-chain.
3. A Code of Practice should drive end-user demand and enhance the reputation of our products providing real economic value for our farmers and value chain.
4. A Code of Practice should be a living document, incorporating industry best practices and science-based recommendations.



# CMBTC recommended list

Each year, the **Canadian Malting Barley Technical Centre (CMBTC)** issues a list of current malting barley varieties with the greatest potential for selection and marketing. Each variety on the recommended list has been pilot scale tested at the CMBTC and all exhibit good malting and brewing characteristics. All varieties on the list are registered with the **Canadian Food Inspection Agency (CFIA)**.

## VARIETIES RECOMMENDED

VARIETY	TYPE	MARKET COMMENTS	SEED DISTRIBUTOR
CDC Copeland	2 Row	Established Demand	SeCan
AC Metcalfe	2 Row	Established Demand	SeCan
AAC Synergy	2 Row	Established Demand	Syngenta
AAC Connect	2 Row	Growing Demand	CANTERRA SEEDS
CDC Bow	2 Row	Growing Demand	SeCan
CDC Fraser	2 Row	Growing Demand	SeCan

In addition to the varieties listed, there are also contracting opportunities for the following:

- Bentley, Celebration and CDC PlatinumStar (CANTERRA SEEDS)
- Legacy, Newdale, Tradition (FP Genetics)
- Cerveza (Mastin Seeds)
- Lowe (SeCan)

**The CMBTC recommends that producers have a contract for all barley varieties being grown for malt.**

## VARIETIES IN DEVELOPMENT

These newly registered varieties are undergoing seed propagation and commercial market development. Contact the seed distributor for opportunities to trial these promising new varieties.

VARIETY	TYPE	SEED DISTRIBUTOR
CDC Churchill	2 Row	SeCan
CDC Copper	2 Row	FP Genetics
AB BrewNet	2 Row	SeedNet

## THE CMBTC AND ITS MEMBERS RECOMMEND

Talk with your grain company representative, local elevator operators, malting companies, or the representative seed company about opportunities in your area to grow and market malting barley.

Use certified seed to ensure varietal purity, reduce incidence of disease and increase the likelihood of selection for malt.

# Getting the most out of MALT BARLEY

## SaskBarley funded research looks at how to optimize yield and quality for newer varieties

By Mitchell Japp

Transitioning to new malt barley varieties in western Canada has been rare. Top varieties since the 1990's have included Harrington, AC Metcalfe and CDC Copeland – not very many. But there is a transition underway. AAC Synergy has been consistently gaining popularity and AAC Connect, CDC Bow and CDC Fraser are even newer varieties that are gaining interest

amongst maltsters and brewers.

These newer varieties represent about 15 years of genetic gain through breeding programs at the Crop Development Centre and Agriculture and Agri-Food Canada. There is potential to increase barley yield and profitability with these newer varieties, but the question was how much more nitrogen and what other inputs optimize the yield and quality for these new varieties.

SaskBarley and the Saskatchewan Ministry of Agriculture funded a project, entitled “Barley MAX”. Last year was year one of a three-year, five location project that includes one field-scale experiment. Trial locations include Northeast Agriculture Research Foundation (Melfort), East Central Research Foundation (Yorkton),

Wheatland Conservation Area (Swift Current), Conservation Learning Centre (Prince Albert) and Western Applied Research Corporation (Scott). The field-scale demonstration is near Humboldt.

The Barley MAX builds on the agronomic knowledge gained during previous barley cluster projects, led by Dr. John O’Donovan with Agriculture and Agri-Food Canada. The barley cluster work optimized seeding rates, fertility, and fungicides. But that work was done on older varieties. The current project looks at various complete agronomic packages to see which is best for newer varieties. Additionally, the Canadian Malting Barley Technical Centre (CMBTC) will be analyzing malt quality and micro-malting samples to assess impacts to

grain and end-use quality.

The specific treatments are presented in the following table. AC Metcalfe is included for comparison; AAC Synergy is a newer, high-yielding variety with improved disease resistance; and CDC Bow represents a notable improvement in straw strength. All nitrogen fertilizer rate treatments were based on applied N fertilizer and soil nitrogen levels. Residual soil N is an important consideration in determining N fertilizer rates (see *graphic below*).

After a single season of results, it is important to be cautious of results. Across all treatments and locations, AAC Synergy was the top yielding variety. Notably, newer varieties had lower protein levels, consistent with CMBTC observations. Lower protein and higher yield potential are a good

Mgmt	Seeding Rate Seeds/m <sup>2</sup> (seeds/sq ft)	Seed Treatment	N (soil + fert.) kg N/ha (lbs N/ac)	P kg P <sub>2</sub> O <sub>5</sub> /ha (lbs P <sub>2</sub> O <sub>5</sub> /ac)	K kg K <sub>2</sub> O/ha (lbs K <sub>2</sub> O/ac)	PGR	Flag Leaf fungicide	FHB fungicide
A	200 (19)		90 (80)	15 (13)	0			
B	300 (28)		120 (107)	30 (27)	15 (13)			
C	300 (28)	yes	120 (107)	30 (27)	15 (13)			
D	300 (28)	yes	90 (80)	30 (27)	15 (13)			yes
E	300 (28)	yes	120 (107)	30 (27)	15 (13)			yes
F	300 (28)	yes	120 (107)	30 (27)	15 (13)	yes		yes
G	300 (28)	yes	120 (107)	30 (27)	15 (13)	yes	yes	yes



combination for applying more nitrogen fertilizer to malt barley while maintaining acceptable malt characteristics (see right, top graphic).

Across all environments and varieties, there was a clear response to nitrogen fertilizer. There was no significant difference among any of the treatments receiving the highest rate of fertilizer. Most locations below normal precipitation, so disease and lodging pressure were not an issue. Below normal

precipitation and minimal lodging or disease pressure likely contributed to no significant differences amongst treatments B, C, E, F and G, in this single year of data. The environment is a significant factor for lodging and disease, especially as fertility rates increase. As a result, the environment has a strong influence on the benefit of many of these inputs.

The most basic treatment (A) was notably lower yielding than treatment (D), which had the same nitrogen rate, but higher seeding rate, phosphorus fertilizer and potassium fertilizer, as well as a fungicide treatment (see right, bottom graphic).

There may be some interactions with variety and management that will be explored further as this project progresses. This project will be grown at the same locations again in 2021 and 2022. 

*AAC Synergy has been consistently gaining popularity and AAC Connect is an even newer variety that is gaining interest amongst maltsters and brewers.*

Variety	Protein %	Yield kg/ha @13.5%(bu/ac)
AC Metcalfe	12.1	3829.8 (71.2) b
AAC Synergy	11.4	4047.8 (75.2) a
CDC Bow	11.2	3909.6 (72.7) b
LSD	N/A	100.6 (1.9)

Management	Protein %	Yield kg/ha @13.5%(bu/ac)
A	11.2	3335.8 (62.0) c
B	11.5	4045.2 (75.2) a
C	11.6	4066.7 (75.6) a
D	11.5	3634.6 (67.6) b
E	11.5	4195.7 (78.0) a
F	11.7	4099.3 (76.2) a
G	11.8	4126.2 (76.7) a
LSD	N/A	153.7 (2.9)

### WANT MORE INFO ON BARLEY MAX?

Visit our YouTube channel (“SaskBarley”) to see our **Barley MAX** video playlist, featuring more information from this research.

## THE SASKATCHEWAN BARLEY DEVELOPMENT COMMISSION:

The Saskatchewan Barley Development Commission was established in 2013 under the Agri-Food Act, 2004

## SASKATCHEWAN BARLEY DEVELOPMENT COMMISSION (SASKBARLEY)

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## 2020 SR&ED RATES FOR BARLEY PRODUCERS

For the crop year ending July 31, 2020, producers may claim 22.7% of their levy contributions as a qualifying Scientific Research and Experimental Development (SR&ED) expenditure on their federal tax return. Investment tax credits may be claimed by **filing form T2038 (IND) for farm individuals** or **T2SCH31 for farm corporations**.

In addition, farm corporations

may also claim 12.7% of their levy contributions as a qualifying expenditure towards the Saskatchewan Research and Development Tax Credit program. This credit may be claimed by **filing form T2SCH403**.

*Please note: Producers that have requested a refund of their levy are not eligible for either tax credit.*

## WHAT IS THE SR&ED?

The SR&ED program is a federal government program which aims to encourage research and development by providing tax-based incentives.

By using producer check-off contributions to finance research and development work that benefits Saskatchewan barley producers, SaskBarley is able to participate in this

program and distribute these tax-based incentives to producers.

The program gives registered barley producers access to investment tax credits (by means of cash refunds and/or reduction to taxes payable) for their check-off contributions that are spent on qualifying research.

Return undeliverable Canadian addresses to the below address

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