

Grow Mustard

SASKATCHEWAN MUSTARD INDUSTRY NEWS



@GrowMustard

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SaskMustard and Mustard 21 Canada Inc.

SPRING 2021

WISHING YOU ALL A SAFE SEEDING SEASON!

Message from the Chair by Derek Dewar



I hope this newsletter finds everyone enjoying good health, spring weather and looking forward to a successful season of mustard production. Market outlooks and personal weather predictions can create flexibility in seeding plans. If your plans are to include mustard, you will find more information about AAC Brown 18 and AAC yellow 80 in this newsletter.

Sask Mustard and M-21 have had a busy year and it was encouraging that so many were able to join us at the Sask Mustard annual general meeting held virtually due to covid-19 in January. We

welcomed two new board members, you will note the names of Moriah Andrews and Garrett Brown in the newsletter. Hopefully, we will move through the pandemic and you will be able to meet everyone in person next January.

Agriculture has always had an abundance of issues and your commission is very aware of the current federal seed modernization initiative. Research is expensive, check-off dollars and royalties focused at the farm gate only cover a part of the costs. With Agriculture being a major part of the overall Canadian economy Sask Mustard strongly supports the continued public support for research. Mustard development is showing steady progress with a bright future as we respond to production interests.

As we move into 2021, I thank everyone involved for keeping the mustard industry strong. If you have any questions comments or suggestions for Sask Mustard or M-21 activities please contact me, Rick, Tanya or any of the Sask Mustard directors.

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Issues of the Grow Mustard newsletter will only be available electronically.

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Market Outlook

by Chuck Penner,
LeftField Commodity Research

Mustard bids in western Canada had been bumping around near the lows for the last couple of years, especially for brown and oriental types. Even yellow mustard hadn't shown much movement since early 2018. With a lot more excitement in other crops, it's easy to miss that mustard is starting to have a moment of its own.

The lacklustre prices over the past two years finally caught up to the mustard market in 2020/21, causing farmers to drop seeded area last year to 256,000 acres, the lowest since the early 80s. According to StatsCan, seeded area of brown and oriental mustard dropped by more than half, not all that surprising. Earlier this month, StatsCan confirmed the low supply situation with December 31 stocks at only 110,000 tonnes, 24% less than last year.

Even with these extreme drops in 2020/21 production and supplies, bids in western Canada didn't react immediately. Some gradual upward movement started to emerge earlier in the year but it's only been the last 2-3 months where the gains have been much more noticeable. Not surprisingly, the most strength has occurred in brown mustard because of the larger drop in production. Oriental mustard bids are making decent moves lately but are still trailing while yellow continues to gradually trend higher.

On the surface, the smallest crop and lowest supplies in years should have produced a much stronger price reaction. Unfortunately, the demand side in the mustard market hasn't been stellar so far this year. Through the first five months of 2020/21, exports have totaled

just over 45,000 tonnes, which is trailing last year and the 5-year average.

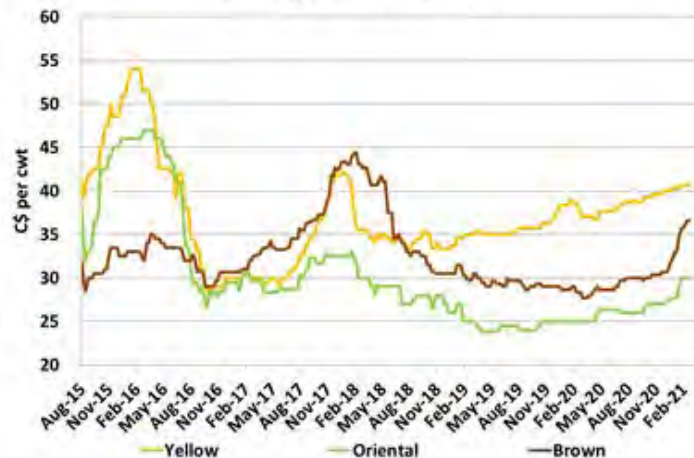
Low supplies are one possible explanation for weaker exports, but increased competition has become a bigger factor for the last several years. In fact, since Canadian exports hit a decade-high peak in 2013/14 at 135,000 tonnes, volumes have been trending more or less lower since then and might only hit 105,000 tonnes this year, although part of this year's low total is due to limited supplies.

There are a couple of reasons for the weaker demand. In the US, Canada's largest customer, domestic mustard acreage more than doubled in 2016/17 and has remained close to those levels ever since. Canadian mustard exports to the US dropped off by a few thousand tonnes in the last few years.

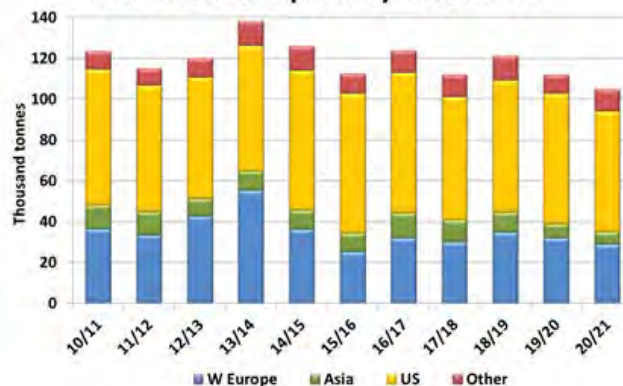
The bigger factor has been the sharp increase in Black Sea mustard production, especially Russia. In 2018, Russian seeded area jumped to 334,000 hectares, more than double the previous year, and has remained high ever since. Not only has this taken a larger share of western Europe, Canada's other major destination, but has also targeted countries in Asia.

It looks like 2021/22 could be a better year, with stronger new-crop bids for all three classes of mustard, as buyers look to rebuild supplies. Of course, mustard has to compete for acres against a number of other crops with rising prices. These bids should allow at least a partial rebound in mustard production this year. And if these prices managed to hold up through the next marketing year, profitability will be better than the last few years.

Average Mustard Bids



Cdn Mustard Exports by Destination



AAC Brown 18
AAC Yellow 80
is available for 2021 at

MERCER SEEDS

Ryan Mercer – Lethbridge, AB
P: 403-308-2297
mercerseeds.ca

NUTRIEN AG SOLUTIONS

Please contact your local retailer
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SUNDWALL SEEDS

Baine Fritzler – Govan, SK
P: 306-725-7908
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Executive Directors Report

by Rick Mitzel, Executive Director

With the warmer temperatures and snow melting, mustard producers are thinking about heading into another planting season. This past year created a lot of challenges for growers across Western Canada but everything came off in the end. At Saskatchewan Mustard Development Commission (SMDC), we are looking forward to another year of looking at new varieties and trying to find new markets for mustard oil and meal.

In my address below to mustard growers I will try to cover off three key topics of highest interest for our mustard growers.

New Varieties

Mustard 21 (M21) has had a successful selling season with the new AAC Hybrid Brown 18 and AAC Yellow 80 composite yellow mustard. You can see some of the fertility trial results in 2020 SMDC had with AAC Hybrid Brown 18 in the report from Amber Wall with the Wheatland Conservation Group later in this newsletter. SMDC had some good results last summer with the fertility and seeding rate trials and found that there is potential for strong yields from Hybrid Brown18.

AAC Yellow 80: M21 has done a limited launch on AAC Yellow 80 in 2021 with seed produced in 2020, the uptake by mustard growers was strong. The demand for a higher yielding yellow

mustard was strong and SMDC had many calls on this variety this past winter. The new AAC Yellow 80 is 9% higher yielding than Andante in the research trials and that can amount to a nice increase in profitability for yellow mustard growers. There will be more seed available to plant in the spring of 2022 for AAC Yellow 80.

AAC Hybrid Brown 18: This past season saw more growers trying the new Hybrid Brown 18 and the results were positive. M21 has seen a yield increase of 18% over Centennial Brown in research plots and growers are finding similar results as well. This variety has also shown increased vigour as well especially when it gets established and starts to form its secondary roots.

If you are interested in purchasing these new varieties contact our distributors for more information.

Annual General Meeting (AGM)

This past January 2021 Sask Mustard Development Commission had its first virtual AGM along with the other crop sectors due to the COVID-19 issues. The results were good with a strong attendance online and SMDC was able to reach quorum with the required number of registered growers in attendance. The session was

informative with the focus of the presentation being financial documents. SMDC had several questions on new uses and how things are progressing in that area. I was happy to answer any questions on this topic as it is a key focus for the M21 staff, and we are always more than happy to discuss where we are at.

Summer Trials

We often get asked questions on agronomy in mustard so we have funded trials in the past for seeding rates and fertility with AAC Hybrid Brown 18. This summer we are going to add another set of trials that will allow us to try to maximize yields of both AAC Hybrid Brown 18 and AAC Yellow 80.

The trials are set up to try to reach a targeted yield with a set amount of fertility so with the trials in Swift Current we will be able to see how the new varieties respond to this test. SMDC and the Ministry of Agriculture will be monitoring the plots during the year and we will be sending out updates via Facebook and other social media.

I would like to thank the mustard growers for your support in 2020 and SMDC and M21 are looking forward to another successful year in 2021

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Towards the development of non-GMO Group 2 herbicide (IMI) tolerant brown and oriental mustard (*Brassica juncea*) hybrid varieties

by Bifang Cheng,

AAFC-Saskatoon Research and Development Centre

Acetolactate synthase (ALS), also known as acetohydroxyacid synthase (AHAS), is an enzyme found in plants and microorganisms. ALS catalyzes the synthesis of the branch chain amino acids including valine, leucine and isoleucine. Group 2 herbicides, such as imidazolinones (IMI) inhibit the ALS enzyme function by blocking the substrate access to the active site and thus starve the affected plants of protein, leading to plant death. Seed mutagenesis using the chemical mutagens such as ethyl methanesulfonate (EMS), a non-GMO approach, has led to the successful development of Group 2 herbicide resistant mutant in *Brassica napus* and *B. rapa*. However, current mustard *B. juncea* varieties are all susceptible to the Group 2 herbicides.

B. juncea (genome AABB, $2n=36$) is an amphidiploid species derived from the interspecific hybridization between *B. rapa*

(genome AA, $2n=20$) and *B. nigra* (genome BB, $2n=16$). It has two ALS genes, ALS-A and ALS-B, located in the A and B genomes, respectively. We have successfully developed two IMI tolerant brown mustard lines B4004-1-1 and B4005-3-28 using EMS seed mutagenesis approach. Molecular studies revealed that B4004-1-1 carried an IMI tolerant ALS gene, namely ALS-BT, in the B genome, but an IMI susceptible ALS gene, ALS-AS, in the A genome; while B4005-3-28 contained an IMI tolerant ALS gene, ALS-AT, in the A genome, but an IMI susceptible ALS gene, ALS-BS, in the B genome.

In order to develop mustard line with the IMI tolerant ALS genes in both A and the B genomes, we made crosses between B4004-1-1 and B4005-3-28. The resulting F1 plants were used as donor to produce doubled-haploid (DH)

lines via microspore culture. Using molecular markers specific for the IMI tolerant ALS genes, ALS-AT and ALS-BT, homozygous IMI tolerant line B4017DH6 was identified. Tolerance of the DH line B4017DH6 and Centennial Brown (control) to the Group 2 herbicides Ares and Odyssey was tested in the field in 2020. Centennial Brown is susceptible to Ares and Odyssey, and the plants died in two weeks after spraying (Figures 1 and 2). B4017DH 6 is tolerant to both Ares and Odyssey and the plants survived the spray (Figures 3 and 4).

We are currently working to transfer the IMI tolerant trait from B4017DH6 to the parental lines (male sterile, maintainer and restorer lines) of the Ogura CMS system for development of non-GMO IMI tolerant brown and oriental mustard hybrid varieties for the mustard producers in Canada. The incorporation of this herbicide technology for

Figure 1. Centennial Brown: Susceptible to the Group 2 herbicide Ares at the recommended rate (1X)



Figure 3. B4017DH6: Tolerant to the Group 2 herbicide Ares at the recommended rate (1X)



Figure 2. Centennial Brown: Susceptible to the Group 2 herbicide Odyssey at the recommended rate (1X)



Figure 4. B4017DH6: Tolerant to the Group 2 herbicide Odyssey at the recommended rate (1X)



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condiment mustard hybrid varieties will lead to in-crop weed control and the option to allow the producers to grow mustard B. juncea in the soil with residual Group 2 activity.

Acknowledgement: The mustard breeding team (Dr. Farzad Javidfar

who now works at BASF, Dr. Fangqin Zeng, David Williams, Charlene Pound, Sylvia Phung and Dr. Jianwei Zhao), the oilseed molecular lab manager, Vicky Roslinsky, and the oilseed farm manager, Ryan Vetter are acknowledged for their

contribution to this project. The funding support is provided by the Agriculture Development Fund (ADF) of Saskatchewan, the Canadian Agricultural Partnership (CAP) program, Mustard 21 Canada Inc. and the Western Grain Research.

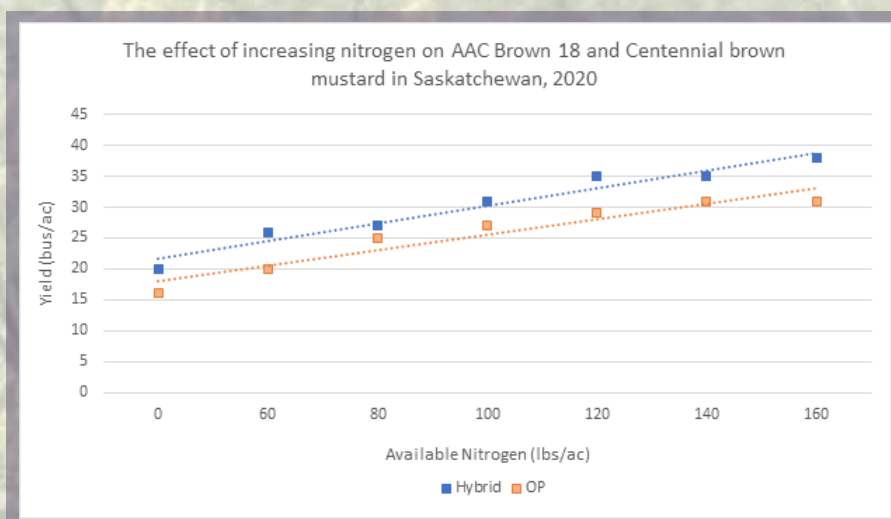
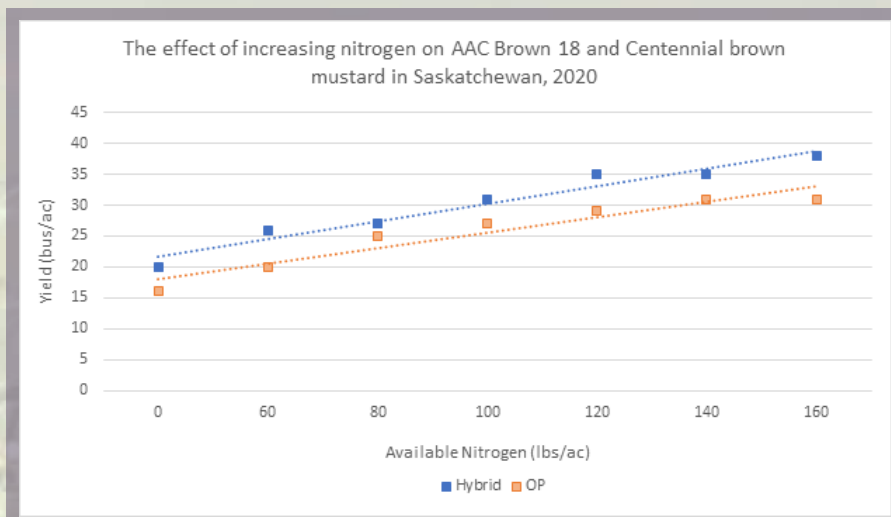
MUSTARD IN THE FIELD

Establishing Nitrogen and Seeding Rate Recommendations for Hybrid Brown Mustard Production in SK

by Amber Wall, Wheatland Conservation Area Inc.

This project was first established last spring with a goal in mind to understand nitrogen requirements of the hybrid mustard compared to Centennial brown and define the upper and lower limits of nitrogen, as well as maximize production by optimizing seeding rates that are based on seeds per square foot, rather than lbs/ac due to the differences in seed size and establishment.

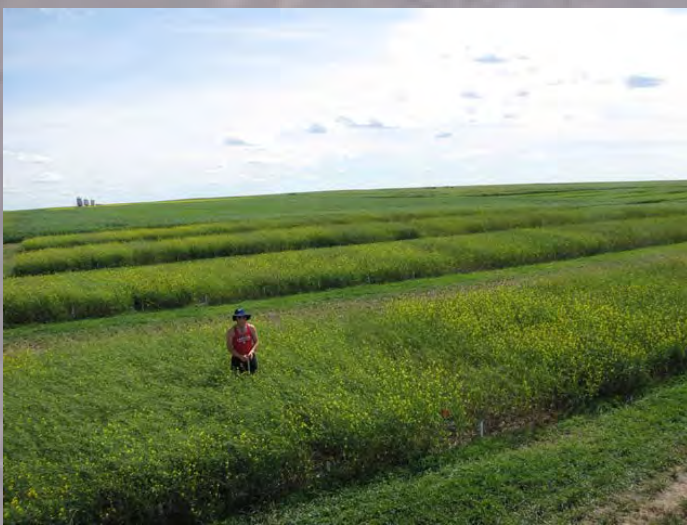
If the current recommendation for hybrid canola applies to hybrid mustard, having a high amount of available nitrogen (160 lbs/ac) would target a yield of about 45 bu/ac and a low amount (60 lbs/ac) would target 17 bu/ac. Treatments range from residual soil N to 160 lbs/ac available N for each variety. Overall establishment ranged from 5-15 plants/ft² with Centennial mustard having higher plant densities than the hybrid, well above and below the target plant stand. However, as in previous mustard research plant stand does not necessarily equate to yield. Hybrid brown mean yield was 35 bu/ac when utilizing 120N, but has potential to increase with nitrogen in average soil moisture conditions. Centennial mustard levelled off after 140N and reached a mean yield of 31 bu/ac. Overall means show that hybrid brown had a 4 bu/ac yield increase over Centennial and also required less fertilizer to get there.



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A separate seeding rate trial includes treatments based on a target plant population of 7-11 plants/ft² by using thousand kernel weights to achieve a range above and below the recommended density, as well as account for survival. Plant establishment ranged from 4-17 plants/ft² and varied by location as a result of the below average precipitation received at each site. The optimum seeding rate for Hybrid brown mustard was 18 seeds/ft² but additional data is required to make a comprehensive recommendation.

In terms of other data collected throughout the 2020 growing season hybrid mustard tended to be taller with less lodging compared to Centennial brown, especially at higher nitrogen rates. The vigorous nature of the hybrid appeared to better utilize higher rates of nitrogen and after one of three years, this trial does demonstrate the hybrid vigor of AAC Brown 18 given the negative correlation between plant establishment and yield throughout both trials. After year one of this study, more robust multi-site, multi-year data is essential to perform meaningful statistical analyses and acceptable recommendations for the optimum seeding rate and nitrogen fertilizer requirements for hybrid brown mustard. As a part of the Strategic Field Program, this project will continue at 3 site locations for 2 additional growing seasons in Saskatchewan and final results will be available in 2022.



July 21, 2020



AAC Brown 18 seeded at 18 seeds/ft²



AAC Brown with Soil N only (left) and 160N available (right).



Lodged Centennial brown with 140N (left) and AAC Brown 18 with 140N.



Sour Cream and Honey Mustard Coffee Cake

Cinnamon Sugar

- 1/3 cup granulated sugar
- 1/3 cup brown sugar
- 1 1/2 tsp dry mustard powder
- 1 1/2 tsp ground cinnamon

Drizzle

- 1/2 cup icing sugar
- 1 tsp milk

Coffee Cake

- 2 cups all-purpose flour
- 1 tsp baking powder
- 1 tsp baking soda
- 1/2 tsp salt
- 1/2 cup butter, room temperature
- 1 cup granulated sugar
- 2 large eggs
- 1 1/2 cups sour cream
- 1 Tbsp honey mustard

Instructions:

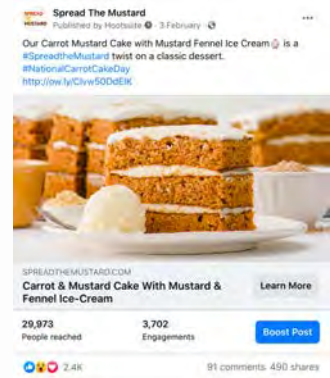
1. Preheat the oven to 350°F. Lightly grease and line a 9 x 13 - inch (22 x 33 cm) pan with parchment paper.
2. In a small bowl, mix together the cinnamon sugar ingredients.
3. In a large bowl, stir together the flour, baking soda, baking powder and salt. In a small bowl, stir together the sour cream and honey mustard.
4. In the bowl of a stand mixer fitted with the paddle attachment, beat the butter and sugar together medium-high speed for 2 minutes, until light and fluffy.
5. Add the eggs, one at a time, beating well after each addition.
6. Add one third of the flour mixture, and mix on medium-low speed until just combined. Add half of the sour cream mixture. Repeat with the remaining flour and sour cream, stopping to scrape the bowl now and again.
7. Transfer half of the batter to the prepared pan and spread it out evenly. Sprinkle with half of the cinnamon sugar. Repeat with the remaining batter and cinnamon sugar.
8. Bake for 30 -35 minutes until a toothpick inserted into the middle of the cake comes out clean. Remove from the oven and let cool.
9. Stir together the icing sugar and milk. Drizzle over the cooled coffee cake. Slice and serve.

Substitution: Use full fat Greek yogurt instead of sour cream.

Spread the Mustard

by Dorothy Long

Our Spread the Mustard marketing efforts have focused on social media the past several months. We have leveraged our recipe content using the hashtags of popular food day to increase reach and engagement such as this post for #NationalCarrotCakeDay. The post reached almost 30,000 people and had 3,702 engagements including 490 shares.



We also have been partnering with local chefs and cookbook authors to share recipe and menu items using mustard. Through these cross-promotion we hope to not only showcase influencers using mustard in a variety of applications but to also encourage chefs and recipe developers to #spreadthemustard through their menu items and recipes

We also participate in #CdnAgDay by creating a short video using #CdnAgDay graphics. We encouraged people to celebrate the food they love and the farmers that grow and raise it. We also asked them to enjoy a meal including mustard and other Canadian ingredients. To help achieve this meal we shared an article through our website that featured mustard throughout the menu starting with an appetizer then sides, main course and even dessert.



Speaking of dessert here is one for you to try!

#SPREADTHEMUSTARD

NEW VARIETY

BENEFITS OF AAC YELLOW 80

AAC Yellow 80 is a composite yellow mustard that will come to market in 2021. This new yellow mustard variety offers growers ease of harvest and cleaner sample.

FEATURES

Yield: AAC Yellow 80 shows a 9% increase in yield over Andante. AAC Yellow 80 offers growers a long awaited yield advance over traditional open pollinated yellow mustard varieties.

Appearance: AAC Yellow 80 shows a harvested grain sample, significantly brighter in seed color. The majority of the producers who grew demo strips in 2020 said that it was easier to harvest and noted a nicer sample than Andante.

Agronomic Data Comparison

Advanced Yield Trials 2018	Yield		Seed Weight	Protein	Height	Maturity
	Kg/ha	% Check	g/1000	% whole seed	cm	days
Number of trials: 4						
Andante	1926	100	6.8	35.8	103	85
AAC YELLOW 80	2102	109	6.7	35.6	111	87

Mustard Adoption Trials 2019	Yield		Seed Weight	Protein	Height	Maturity
	Kg/ha	% Check	g/1000	% whole seed	cm	days
Number of trials: 11						
Andante	1936	100	5.5	34.3	124	92
AAC YELLOW 80	2109	109	5.5	34.3	128	92

Mustard Adoption 2020	Yield		Seed Weight	Protein	Height	Maturity
	Kg/ha	% Check	g/1000	% whole seed	cm	days
Number of trials: 12						
Andante	1915	100	5.9	34.2	118	88
AAC yellow 80	2060	108	5.8	33.6	119	88

Source: Data provided by Dr. Bifang Cheng, Research Scientist, Agriculture & Agri-Food Canada

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 mustard21@mustard21.com
 www.mustard21.com



AAC YELLOW 80

Composite Yellow Mustard



AAC Brown 18
AAC Yellow 80
 is available for 2021 at

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Ryan Mercer – Lethbridge, AB
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mercerseeds.ca

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BENEFITS OF AAC BROWN 18

AAC Brown 18 is a hybrid brown mustard that came to market in 2019. This new hybrid variety offers growers unprecedented yields in the brown mustard market along with a strong disease package.

FEATURES

Yield: the hybrid AAC Brown 18 shows a 20% increase in yield data over check varieties.

Strong Disease Package: the hybrid AAC Brown 18 has the same blackleg resistance as Centennial Brown and AAC Brown 18 has resistance to race 2a of white rust whereas Centennial Brown does not have resistance to that race.

Replicated Yield Trials - Agronomic Data Comparison

Mustard Adoption Trials 2016					
Number of trials: 7	Yield		Protein	Height	Maturity
	Kg/ha	% Check	% whole seed	cm	days
Centennial Brown	1841	100	29.6	133	89
AAC Brown 18	2226	121	28.8	133	90

Mustard Adoption Trials 2017					
Number of trials: 11	Yield		Protein	Height	Maturity
	Kg/ha	% Check	% whole seed	cm	days
Centennial Brown	1692	100	29.4	133	86
AAC Brown 18	2063	122	28	138	87

Advanced Yield Trials 2017					
Number of trials: 4	Yield		Protein	Height	Maturity
	Kg/ha	% Check	% whole seed	cm	days
Centennial Brown	1819	100	28.3	139	91
AAC Brown 18	2401	132	26.5	144	91

Mustard Adoption Trials 2020					
Number of trials: 13	Yield		Protein	Height	Maturity
	Kg/ha	% Check	% whole seed	cm	days
Centennial Brown	2114	100	29.6	125	87
AAC Brown 18	2563	121	28.6	129	87

Source: Data provided by Dr. Bifang Cheng, Research Scientist, Agriculture & Agri-Food Canada
AAC Brown 18 was not in the mustard adoption trials in 2018 and 2019

Strategic Field Program Nitrogen Study 2020			Yield	
Number of trials: 1 (8 treatments)	Yield		Kg/ha	% Check
	Centennial Brown	AAC Brown 18		
Centennial Brown	1217	100	1217	100
AAC Brown 18	1497	123	1497	123

Strategic Field Program Seed Rate 2020			Yield	
Number of trials: 1 (5 treatments)	Yield		Kg/ha	% Check
	Centennial Brown	AAC Brown 18		
Centennial Brown	796	100	796	100
AAC Brown 18	1031	130	1031	130

AAC BROWN 18

Hybrid Brown Mustard



MUSTARD BUYERS LIST

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1309497 AB Ltd.

O/A W A Grain & Pulse Solutions
PO Box 6345, Innisfail AB T4G 1T1
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E: larry.bevill@wagrain.ca
W: wagrain.ca

All Commodities (AC) Trading Ltd.

1600 Two Mile Road
Winnipeg MB R2N 4K1
Tel: 204-339-8001
E: kevin@allcommodities.ca
W: allcommodities.ca

Alliance Pulse Processors Inc.

O/A A G T Foods
6200 E Primrose Green Dr.
Regina SK S4V 3L7
Tel: 844-248-4248
E: buying@agtfoods.com
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Besco Grain Ltd.

PO Box 1390, Carman MB R0G 0J0
Tel: 204-745-3662
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Canpulse Foods Ltd.

100 - 318 Wellman Lane
Saskatoon SK S7T 0J1
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D G Global West

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PO Box 69, Elbow SK S0H 1J0
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W: msoilseeds.com

Olds Products Co.

10700 - 88th Avenue
Pleasant Prairie WI USA 53405
Tel: 262-947-3500 EXT 637
E: wdyck@oldsfitz.com
W: oldsproducts.com

Sakai Spice (Canada) Corp.

4201 - 2nd Avenue North
Lethbridge AB T1H 0C8
Tel: 403-320-9445
E: dave@sakaispice.com
W: sakaispice.com

NEW BOARD MEMBERS



My name is Moriah Andrews. I farm with my family in the southwest part of the province near Hazlet, Saskatchewan where we have a diverse crop rotation of durum, barley, lentils, peas, and mustard. As well, I am an agronomist at our local crop inputs retail. On our farm we have grown brown mustard for the last few years and have made it an integral component of our crop rotation. I am optimistic of the future mustard in Saskatchewan, and am excited to be part of an organization that plays a role in that future.



Garrett Brown was originally a master electrician in Alberta managing large oil and gas projects, before moving to south central Saskatchewan to start farming in 2017. He has always had mustard in his rotation, whether oriental, brown or yellow. Garrett's had a passion for farming since growing up and helped on his grandfather's farm near Avonlea Saskatchewan. Every year he tries to gain a few more acres and ends up with another stray cat, he's up to 8,000 acres and 6 cats. Garrett is always looking to learn and try more efficient methods of mustard growing and maximizing return through operational streamlining. He looks forward to learning and discussing farming or business management in general.

Future Issues of the Grow Mustard newsletter will only be available electronically.

Don't miss an issue! Sign up at saskmustard.com and follow us on Twitter @GrowMustard or return the notice below with your contact information.

Name: _____

Email: _____

I consent to receiving electronic mail from Sask Mustard (initial) _____



The Saskatchewan Mustard Development Commission (Sask Mustard) was established in 2003 to represent the province's mustard growers.

The Sask Mustard vision is "Investing in the future for mustard grower profitability" and the Sask Mustard mission is "Growing the mustard industry for the benefit of growers through research, communication and market development programs."

Please visit the following websites for more information:

SaskMustard.com is our industry-focused website
SpreadTheMustard.com is our consumer-focused website

SPREAD THE MUSTARD.COM

ADMINISTRATION

Rick Mitzel - Executive Director

C: 306-914-5164
rick@saskmustard.com

Tanya Craddock - Office Manager

TLC Management Group
Box 37026 North Park PO, Saskatoon, SK S7K 8J2
C: 306-975-6629
info@saskmustard.com



Mustard 21 Canada Inc. (M21) is a non-profit initiated by Sask Mustard and the Canadian Mustard Association (CMA). As the research arm of the Canadian mustard industry,

M21's objective is to enhance mustard production and value-added products. This includes breeding strategies and market access initiatives for both condiment mustard and industrial oilseed crops.

For more information, please visit **Mustard21.com**

ADMINISTRATION

Rick Mitzel - President & CEO

C: 306-914-5164
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Tanya Craddock - Office Manager

TLC Management Group
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Pat Pitka - Chief Financial Officer

Genome Prairie
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