

# GMustard Grower

*Mustard is a Must*

AGM Edition 2015

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## Chairman's Message

By Patrick Ackerman, PAg

Well, it is fast approaching. The other night we were finishing up combining and the announcer on the radio said "only four weeks until Christmas." My thoughts immediately turned to "what will I get my wife for a present?" You know – the thought that all of us good husbands would have. But that quickly faded because I know my two kids probably already have it cased.

This will be my last message to Saskatchewan mustard producers. I have served my terms and now there is opportunity for other producers to have their input and give direction to the industry. It is time for me to extend my thanks and reflect. Since I began this journey I have learned a lot about

mustard and what a truly progressive organization SMDC is.

We have remained diligent in promoting our industry, trying to develop new varieties and improve our access to new herbicide chemistries. On the variety front, we are now very close to releasing a synthetic hybrid yellow and some double haploid brown (1 to 2 years). Herbicide tolerance is in our sights and very close (2 years). Our high quality product has been promoted to thousands of people in the food and industrial industries of North America. We have played a large role as a partner in the development of the first industrial oil mustard, *Brassica carinata* with Agrisoma. Agrisoma successfully took this crop to the skies - literally - with the first flight using jet fuel made from 100% *Brassica carinata*.

Many producers before me had the vision of developing an organization

that would put mustard on a new path to success. I appreciate their hard work and dedication. The producers of this province have asked for new higher-yielding varieties with herbicide tolerance and other market options, all to be more competitive and profitable. I believe we have a solid foundation with a good structure. Now, we just need to put the finishing touches on what will be the start of a long-lasting future for our industry.

I would like to thank my fellow directors for all of their effort and support and our management team and executive director for all their hard work and professionalism. They are truly great people to work with.

Thank you, also, to all of the growers for their patience and support of the levy. It's been a great ride.

## Mustard on the Menu

### Stone Ground Mustard Cheese Fondue

4 cups (1 L) Emmental cheese, cubed  
3 cups (750 ml) Gruyère cheese, cubed  
2 cups (500 ml) dry white wine  
2 tbsp (25 ml) cornstarch  
2 tbsp (25 ml) cold water  
1 clove garlic, minced  
2 pinches nutmeg  
4 tbsp (60 ml) whole mustard seed,  
ground coarsely  
48 oz (1.44 kg) rustic bread, cut into 1  
inch (3 cm) cubes  
salt and freshly ground pepper, to taste

In a medium saucepan, over medium  
heat, bring the white wine to a simmer.

Add the cheeses and stir until cheese is  
melted and smooth. (At first the cheese  
and wine will look like it won't blend, but  
keep stirring. As the cheese melts it will  
become more fluid.)

Combine cornstarch and water then stir  
into cheese mixture.

Continue to cook, stirring frequently, to a  
very slight bubble, but do not boil. Add  
garlic, nutmeg, mustard, and salt and pep-  
per.

Stir more vigorously to combine.

Serve in fondue pot, keeping warm at low  
heat.

Serves 6 people

## SMDC Annual General Meeting

The annual meeting for the Saskatchewan Mustard Development Commission will be Thursday, January 15 at the Saskatoon Inn as part of Crop Production Week.

### Mustard Day – Thursday, January 15, 2015 Saskatoon Inn, Ballroom C \$20 registration at the door

8:30 a.m.	Registration
9:00 a.m.	Chairman's Address Patrick Ackerman
9:15 a.m.	Hon. Lyle Stewart, Saskatchewan Minister of Agriculture
9:30 a.m.	The Mustard Research Program Pete Desai, Mustard 21 Canada Inc.
9:40 a.m.	Towards Better Agronomy and Weed Control Eric Johnson, AAFC
10:00 a.m.	New Varieties on the Horizon Bifang Cheng, Mustard Breeder, AAFC
10:40 a.m.	Coffee
11:10 a.m.	Sask Mustard Marketing Initiatives Adele Buettner, Sask Mustard General Manager
11:50 a.m.	Debut of New Mustard Marketing Videos
12:00 p.m.	Lunch
12:45 p.m.	Annual Business Meeting
1:15 p.m.	Mustard Market Outlook Walter Dyck, Olds Products

Do you have a story idea for the next newsletter, or an opinion on the mustard industry, or a great mustard recipe you want to share?

Please contact us at 306-975-6629 or email us at [info@saskmustard.com](mailto:info@saskmustard.com).

# Management Report

By Kevin Hursh, Executive Director  
and  
Adele Buettner, General Manager

SMDC was proud to sponsor Chef Michael Link of Western Concessions/Brightwater at the 2014 Gold Medal Plates Canadian Olympic fundraiser on November 8 in Saskatoon. The event is a celebration of Canadian excellence in cuisine, wine, entertainment and athletic achievement in support of the Canadian Olympic Foundation. Chef Link served a dish that was described as follows: *Three Little Pigs barбера and mustard soaked pork belly seared in rendered foie gras on caramelized fennel; shoulder slow braised in tomato, basil and roasted red pepper; smoked hock infused white bean puree with sweet pea emulsion.* Sask Mustard signage was very visible during the competition, with both a table-top sign and a vertical banner placed beside the sample table.



Judy Scott Welden (aka “Judy Foodie”), an Ontario-based nutritionist and home economist, featured mustard on CTV Kitchener’s ‘News at Noon’ segment on October 20, 2014. She spoke of the nutritional aspects of mustard and that Canada is the world’s largest exporter of mustard. Judy also demonstrated how to make two recipes: Mustard Chicken and Grainy Mustard Candied Pecans and referenced the [saskmustard.com](http://saskmustard.com) website, where both recipes are posted. The video link was shared on the Sask Mustard website and its Twitter following, plus the recipes will also be highlighted during Ms. Welden’s ‘Judy Foodie’ program on 107.5 KOOL-FM radio throughout central Ontario. Sask Mustard has

booked her to prepare a similar television segment in March 2015.

Work continues on our video project, which will include a video to educate about mustard production and a chefs’ video to promote the use of mustard. The videos are in the final stages of production and growers will get a sneak peek during the SMDC AGM in January. This project is funded with matching support from the Market Development Program as part of Growing Forward 2.

A dietitian was engaged to review nutritional information in our brochures to ensure accuracy. We are in the process of working through the recommendations and updating our resources.

SMDC continues to be active on Twitter, posting twice a week, with many of our tweets being retweeted. To date, we have 718 followers and the list is growing.

In fulfillment of our IODF grant, we have been in discussion with teachers from Sun West School Division regarding the creation of online opportunities for our Children’s Activity Book. Potential ideas include online games and activities and a teachers’ guide to accompany the activity book.

We are making progress with the mustard family cookbook and are in the process of finalizing recipes and the look and feel of the new cookbook. It will be completed in 2015.





# 2014 Mustard 21 Canada Inc. Update

by Pete Desai

Mustard 21 (M21) is now in the second year of the Agriculture Innovation Program (AIP), to create a Canadian advantage for the mustard industry, a Growing Forward 2 (GF 2) initiative through Agriculture & Agri-Food Canada (AAFC). M21 has received five years of funding under this program to implement our key strategic priorities. The three areas where the majority of our resources are invested are: i) condiment mustard breeding; ii) improved mustard agronomy and production tools and practices and iii) the development of a dedicated industrial mustard, *Carinata*.

M21 scientists' main focus and number one priority is to significantly improve yield of all mustards. This is critical as other competitive crops like canola and pulses have increased their yield potential over the past decade due to improved weed control and hybrids delivering higher yielding varieties. Growing mustard, therefore, is a higher business risk for the grower and a potential concern for our global condiment mustard customer who is relying on a sustainable supply of quality Canadian mustard.

To make significant yield gains, the mustard breeding program has to stay focused and use a multi-faceted approach with the best technologies available for crop improvement. This is a huge long-term commitment of appropriate but significant resources to deliver yield improvement.

**Condiment mustards:** Dr. Bifang Cheng, AAFC mustard breeder in Saskatoon, is dedicated and committed to improve the yield of condiment mustard by focusing her efforts on:

i) Increasing the diversity of the parent germplasm of yellow, brown and oriental mustards. Increasing diversity is critical as it will help to select parents for breeding newer varieties that will deliver faster gains and yield potential in the Canadian environment.

ii) Utilizing double haploid technology, where applicable, to select crosses for stable trait phenotype.

iii) Utilizing genomic tools like molecular markers to help select lines with traits of importance or value very early in the breeding cycle. This will improve the efficiency of breeders for selection and shorten the breeding cycle of new improved lines for pre-development and evaluation.

iv) Developing and utilizing improved *Ogura cms* (cytoplasmic male sterility) hybrid systems in brown and oriental mustard to improve mustard yield.

Come and listen to Dr. Cheng's presentation at the SMDC AGM during Crop Production Week on January 15, 2015.

**Production and agronomy:** Eric Johnson, AAFC scientist at Scott, has focused on the production agronomy aspects of all mustard production. He is defining practical production and agronomy parameters to find the best recommendations that will maximize yield but also improve the quality of Canadian mustard production. This should help maintain Canadian production as the primary source of mustard seed supply in global trade.

i) Two multi-location (Scott, Swift Current, Lethbridge) agronomic studies were successfully established

in 2014. The first long-term study is investigating the performance of *Brassica carinata* relative to other oilseed crops grown under stubble and fallow cropping systems in the target area of production (Brown and Dark Brown Soil Zones). The second study investigates the interaction of seeding rate and N fertilizer rate on performance of *Brassica carinata* with low and high weed densities.

ii) Developing herbicide(s) options for managing weeds in all mustard species is another top priority for the M21 TEAM. A major effort is now underway to address this important priority by evaluating herbicide technologies that will help manage key weeds in mustard production:

- Authority® (sulfentrazone) herbicide has been tested for tolerance in *Sinapis alba* (yellow mustard), *Brassica juncea* (brown and oriental mustard) and *Brassica carinata*. *Sinapis alba* appears to be more tolerant to sulfentrazone than the other species. Future studies will focus on refining rates that will minimize crop injury but provide good suppression of weeds in these competitive crops. For the past two years, applying sulfentrazone in the fall did not reduce crop injury relative to spring application; therefore, registration for fall application will not be pursued.

- Early tank-mixes of Assure® and Muster® on *Brassica carinata* did not appear to cause significant crop injury; however, watch for more information in 2015.

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- There was unacceptable crop injury in *Brassica carinata* when pyroxasulfone, clopyralid (Lontrel®), and dicamba were applied. Tolerance to quinclorac was acceptable.

- *Sinapis alba* exhibited acceptable tolerance to dicamba at 50 g ai/ha.

iii) Herbicide tolerance: This is an exciting project started in 2013 and 2014 to identify and develop herbicide tolerant mustard germplasm. The approach is to screen and select mustard germplasm for herbicide tolerance that the mustard breeders can use in developing future herbicide tolerant mustards.

iv) The herbicides selected for screening are the ones able to control/manage hard to kill weeds in mustard production, i.e. wild mustard and Kochia. The M21 TEAM is pursuing a two-prong approach: 1) mutated populations have been developed of all mustard species and 2) microspores mutation technology for *B. juncea* and *B. carinata*, the two species that are amiable to microspore cultures, has been developed.

v) Initial screening of mutated seed results has been very encouraging and we now have germplasm selections that are demonstrating tolerance to fluroxypyr and to dicamba. This is a breakthrough and the tolerance has been reconfirmed in winter field trials in Florida to ensure that the tolerant plant selections continue to carry the trait into future generations. Stay tuned in 2015 to hear more about the progress made on this new herbicide tolerant mustard development.

### **“Carinata” Dedicated Industrial Mustard (*B. carinata*)**

Breeding: Both Carinata breeding programs, one at AAFC (Dr. Kevin Falk - Saskatoon) and the second at Agrisoma (Dr. Rick Bennett - Saskatoon), are making huge strides in breeding new improved Carinata varieties. The focus of both these breeding programs is to generate new crosses from diverse background germplasm that will result not only in increases in yield but also will help produce lower glucosinolate genotypes.

i) The aim of 2014 preliminary yield trials was to identify new, higher yielding genotypes with lower glucosinolates. A combined total of over 100 new entries were evaluated this summer by AAFC (60 lines) and Agrisoma (50 lines). Advanced 2014 yield trials of promising AAFC lines were coordinated and evaluated by Agrisoma.

ii) The first doubled haploid *B. carinata* lines (1,200 plus lines) from the Agrisoma breeding program were field evaluated in the summer of 2014 and another set of 1,500, will be evaluated in the Chile winter nursery of 2014-2015.

iii) 2013-2014 field trials identified improved frost tolerant genotypes.

This is another very exciting new lead. Lines demonstrating levels of frost tolerance never previously observed were identified within both the AAFC and Agrisoma advanced germplasm. Further evaluation of these germ-plasm over additional geographic sites will be conducted in 2015.

iv) Carinata commercialization: There was no commercial production in 2014 due to delayed CFIA regulatory approval of Carinata meal in April. The approval was too late for Agrisoma to launch a 2014 contract production program. Carinata 2015 contract production should now be possible both in Canada and USA to meet the demand as per Agrisoma off-take agreements.

M21 takes this opportunity to thank Agriculture and Agri-Food Canada, Western Grain Research Foundation, Canadian Mustard Association, Saskatchewan Mustard Development Commission and Agrisoma Biosciences Inc. for their generous support to implement the M21 long-term strategic plan. M21 is committed to leveraging its limited resources from SMD, CMA and its industrial partners to secure long-term funding to help maintain a very productive and robust product pipeline.

**Crop Production Week 2015** will occur at three different venues. In addition to the Saskatoon Inn, there will be meetings at TCU Place and at Prairieland Park. Prairieland is also the site for the Western Canadian Crop Production Show.

From Monday through Thursday, Crop Production Week has initiated a scheduled shuttle service from the Saskatoon Inn to TCU Place and to Prairieland Park. There's no charge, but there will be a number to call to register in advance to take the shuttle. Producers and industry people staying at the Saskatoon Inn will be able to access the activities at TCU Place and Prairieland Park without driving or worrying about parking.

A block of rooms has been reserved at the Saskatoon Inn for Crop Week guests - see [www.cropweek.com](http://www.cropweek.com) for more information.



## 2014 SMDC Board of Directors

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## Meet your new Directors

Ivan and Peyton will take office at the SMDC AGM on January 15, 2015.



### Ivan Costley

I turned 60 this year and have farmed since I was a young boy. I am sure we have grown just about every crop at one time with mustard being no exception.

Saskatchewan, farming and family have been my life. I married Lise Podevin in 1978 and we raised 4 sons in the Mossbank area. The eldest farms with me today and the others are professionals: a commercial pilot, an administrative accountant and a physiotherapist.

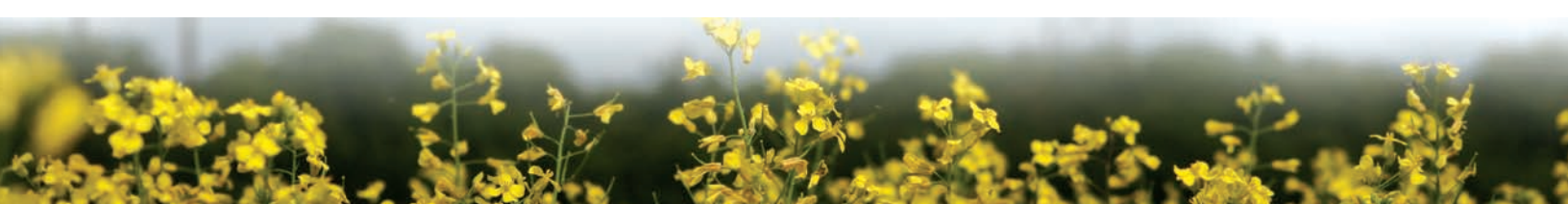
Since mustard is becoming a crop we grow more and more of I decided to become involved in its development. I would like to see yields increased, new markets and uses developed, and, of course, all of this with producers maintaining some control of the cost and use of the seed. I believe my 17 years as an RM councillor and Reeve, my nine years as director with Saskatchewan minor hockey, my involvement on the Co-op board and two service clubs will help me to achieve what I expect you would like the Saskatchewan Mustard Commission to become. I welcome your input so please call me if I can be of assistance.



### Peyton Gill

I farm with my father in the Leader area. We grow a large variety of crops including mustard. I attended Olds College where I took the ag mechanic course. While in school in Leader I was also involved in 4-H.

I look forward to meeting new people and to helping promote mustard while I am on the board of directors.





# Mustard Buyers List

**Agricom International Inc.**

213-828 Harbourside Drive  
North Vancouver BC V7P 3R9  
Tel: 604-983-6922  
Fax: 604-983-6923

**All Commodities (AC) Trading Ltd.**

1600 Two Mile Road  
Winnipeg MB R2N 4K1  
Tel: 204-339-8001  
Fax: 204-339-8002

**Alliance Pulse Processors Inc.**

PO Box 30029  
Regina SK S4N 7K9  
Tel: 306-525-4490  
Fax: 306-525-4463

**Besco Grain Ltd.**

Box 166  
Brunkild MB R0G 0E0  
Tel: 204-736-3570  
Fax: 204-736-3575

**Broadgrain Commodities Inc.**

18 King Street East, Suite 900  
Toronto ON M5C 1C4  
Tel: 416-504-0070  
Fax: 416-504-0080

**Canadian Exotic Grains Ltd.**

PO Box 444  
Eston SK S0L 1A0  
Tel: 306-962-4751  
Fax: 306-962-3251

**Diefenbaker Seed Processors Ltd.**

PO Box 69  
Elbow SK S0H 1J0  
Tel: 306-644-4704  
Fax: 306-644-4706

**Farmer Direct Co-operative Ltd.**

*Certified Organic Only*  
1536 Victoria Avenue  
Regina SK S4P 0P5  
Tel: 306-352-2444  
Fax: 306-352-2443

**Grain Millers Inc.**

10400 Viking Drive, Suite 301  
Eden Prairie MN USA 55344  
Tel: 952-983-1289  
Fax: 952-983-1339

**Ilta Grain Inc.**

8427 - 160th Street  
Surrey BC V4N 0V6  
Tel: 604-597-5060  
Fax: 604-597-4933

**Montana Specialty Mills LLC**

PO Box 2208  
Great Falls MT USA 59403  
Tel: 406-761-2338  
Fax: 406-761-7926

**Mountain States Oilseeds**

PO Box 428  
American Falls ID USA 83211  
Tel: 208-226-2041  
Fax: 208-226-9916

**Olds Products Company of Illinois**

10700 - 88th Avenue  
Pleasant Prairie WI USA 53405  
Tel: 403-393-8180  
Fax: 262-947-3517

**Paterson GlobalFoods Inc.**

333 Main Street, 22nd Floor  
Winnipeg MB R3C 4E2  
Tel: 204-956-2090  
Fax: 204-947-2386

**S S Johnson Seeds Ltd.**

Box 3000  
Arborg MB R0C 0A0  
Tel: 204-376-5228  
Fax: 204-376-2201

**Sakai Spice (Canada) Corp.**

4201 - 2nd Avenue North  
Lethbridge AB T1H 0C8  
Tel: 403-320-9445  
Fax: 403-320-9446

**Schluter & Maack Canada**

PO Box 408  
Pilot Butte SK S0G 3Z0  
Tel: 306-771-4987  
Fax: 306-771-4980

**Seaboard Specialty Grains & Foods**

2595 Quance Street East, Suite 201  
Regina SK S4V 2Y8  
Tel: 306-565-3911  
Fax: 306-565-3912

**Sunrise Foods International Inc.**

2162 Airport Drive  
Saskatoon SK S7L 6M6  
Tel: 306-931-4576  
Fax: 306-931-6770

**Toepfer International,  
Western Grain & Processing  
Division Ltd.**

9 - 2155 Airport Drive  
Saskatoon SK S7L 6M5  
Tel: 306-657-3455  
Fax: 866-543-0703

**Victoria Pulse Trading Corp.**

600 - 850 West Hastings Street  
Vancouver BC V6C 1E1  
Tel: 604-733-1094  
Fax: 604-733-1097

**Viterra Inc.**

2625 Victoria Avenue  
Regina SK S4T 7T9  
Tel: 403-382-3418  
Fax: 866-382-2243

**WA Grain & Pulse Solutions**

5041 - 50th Street, Box 6345  
Innisfail AB T4G 1T1  
Tel: 306-741-4661  
Fax: 306-582-2766

**Westland Agro Ltd.**

PO Box 551  
Gravelbourg SK S0H 1X0  
Tel: 306-648-3273  
Fax: 306-648-3611

To check whether a buyer is licenced and bonded by the Canadian Grain Commission, go to  
[www.grainscanada.gc.ca](http://www.grainscanada.gc.ca).

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# Mustard Grower

## SASKATCHEWAN MUSTARD DEVELOPMENT COMMISSION

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## The Saskatchewan Mustard Development Commission

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

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

*Mustard Grower* is a publication of the Saskatchewan Mustard Development Commission (SMDC). *Mustard Grower* is committed to truth and accuracy; however SMDC disclaims any responsibility for any errors or omissions. Articles, opinions and comments expressed in *Mustard Grower* are not necessarily supported by the SMDC.

