

GMustard Grower

Mustard is a Must

Fall Edition 2015

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I am penning this message in mid September and it certainly has been an interesting growing season this year. Drier, frosty conditions in the spring led to erratic emergence/establishment of crops to varying degrees for some. Some growers were fortunate and received timely rains to help the crop fill in and others weren't so fortunate.

The current mustard market with this year's growing conditions is a bit of a mixed bag. Mustard acres were lower across the province this year and coupled with the growing conditions supply is lower. Yellow and oriental mustard prices are strong with spot prices at 45 c/lb and 40 c/lb respectively. Meanwhile, traders seem to feel brown mustard supply is adequate and spot bids are in the 30c/lb range. It is interesting to note that there are 2016 new crop yellow mustard production contracts out already at 40 c/lb.

Chairman's Message

by Richard Marleau, Chair SMDC

I am happy to report that work on a new mustard grower's manual is progressing well. This has been a joint effort with the Saskatchewan Ministry of Agriculture and SMDC. The finished product is expected to be available at the AGM on Thursday, January 15, 2016 at the Saskatoon Inn.

SMDC is partnering with the Saskatchewan Canola Growers Association and Saskatchewan Flax Development Commission to host oilseed grower meetings in the province the week of November 16-20. Mustard industry experts will be available at the meetings in Rosetown and Swift Current. After harvest has wrapped up and you are wondering about mustard markets or production practice, take advantage of these opportunities. See page three for more information.

Before I sign out for this edition I want to advise growers that there is a board position opening this fall. If you are interested in running for the board, check out the nomination information

on page two and contact the SMDC office to get a nomination form. If you want to discuss what is involved or what to expect as a board member, you can contact me or any other board member.

Best regards.



Mustard on the Menu

*This recipe turns leftovers into
“planned overs”!*

Steak & Mushroom Pizza with Spicy Mustard

- 1 – 12-inch (30 cm) prepared pizza crust
- ½ cup (75 ml) prepared grainy mustard
- ½ cup (125 ml) thinly sliced roast beef
- ½ cup (125 ml) sliced mushrooms
- ½ cup (125 ml) thinly sliced onions
- 1½ cup (375 ml) shredded mozzarella cheese

1. Preheat oven to 425°F (220°C).
2. Place pizza dough on lightly greased 12-inch (30 cm) pizza pan or baking sheet.
3. Spread mustard over pizza dough. Add beef, mushroom and onion slices. Then top with mozzarella cheese.
4. Bake 7-10 minutes or until crust is cooked through and cheese is melted. Cut into thin wedges or squares and serve hot.

Preparation time: 20 minutes

Serves 8

Per serving (65.81 g): 92.58 Calories, 11.66 g protein, 4.77 g carbohydrate, 0.72 g fibre, 0.55 g sugar, 3.03 g fat, 1.25 g saturated fat, 0 g trans fat, 16.93 g cholesterol, 318.20 mg sodium.

*This recipe appears in the
new **Mustard Makeovers
& More** cookbook.*



SAVE THE DATE!

Sask Mustard Annual Meeting

Thursday, January 14, 2016

Ballroom C, Saskatoon Inn

The Sask Mustard annual meeting will include information on old and new crop mustard prices, agronomy and new varieties. We also hope to launch our new mustard production manual.

The meeting will be the Thursday of Crop Production Week at the Saskatoon Inn. Watch for details in the December newsletter. Information will also be posted at www.saskmustard.ca and at www.cropweek.com.

Sask Mustard election

Nominations are being accepted for one open position on the Saskatchewan Mustard Development Commission's board of directors. Directors serve a three-year term and are eligible for re-election for a further two terms.

All Saskatchewan mustard producers who have contributed levy and have not requested a refund are eligible to participate in the election. Directors receive a per diem for days spent on Sask Mustard business and also have their travel expenses reimbursed.

Nomination forms are available from the Sask Mustard office in Saskatoon (306-975-6629). Completed forms must be received by the returning officer no later than noon on Friday, October 30, 2015.

If an election is required, it will be held by mail-in ballot, with the result announced at the annual general meeting January 14 in Saskatoon.

Important dates to remember:

October 30, 2015 at 12:00 noon
– deadline for returning officer to receive nominations

November 16, 2015
– Ballots, if required sent to registered producers

December 10, 2015
– Deadline for return of ballots

January 14, 2016
– Newly elected director begins term at annual meeting




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.

SAVE THE DATE FOR

SASKATCHEWAN OILSEED PRODUCER MEETINGS

5 MEETINGS 5 LOCATIONS 5 DAYS

 <p>NOVEMBER 17 UNIPLEX CONVENTION CENTRE HUMBOLDT, SK</p>	 <p>NOVEMBER 19 CIVIC CENTRE ROSETOWN, SK</p>
<p>NOVEMBER 16 KENOSEE INN KENOSEE, SK</p>	<p>NOVEMBER 18 DEKKER CENTRE NORTH BATTLEFORD, SK</p>
<p>NOVEMBER 20 PALLISER PAVILION SWIFT CURRENT, SK</p>	

Oilseed partners invite you to attend a producer meeting in your area. Featuring Marlene Boersch, Market Analyst, and Dean Klippenstine, MNP, along with information on agronomy for 2016. For full agenda and to pre-register, please visit: www.saskcanola.com or call 1-877-241-7044.

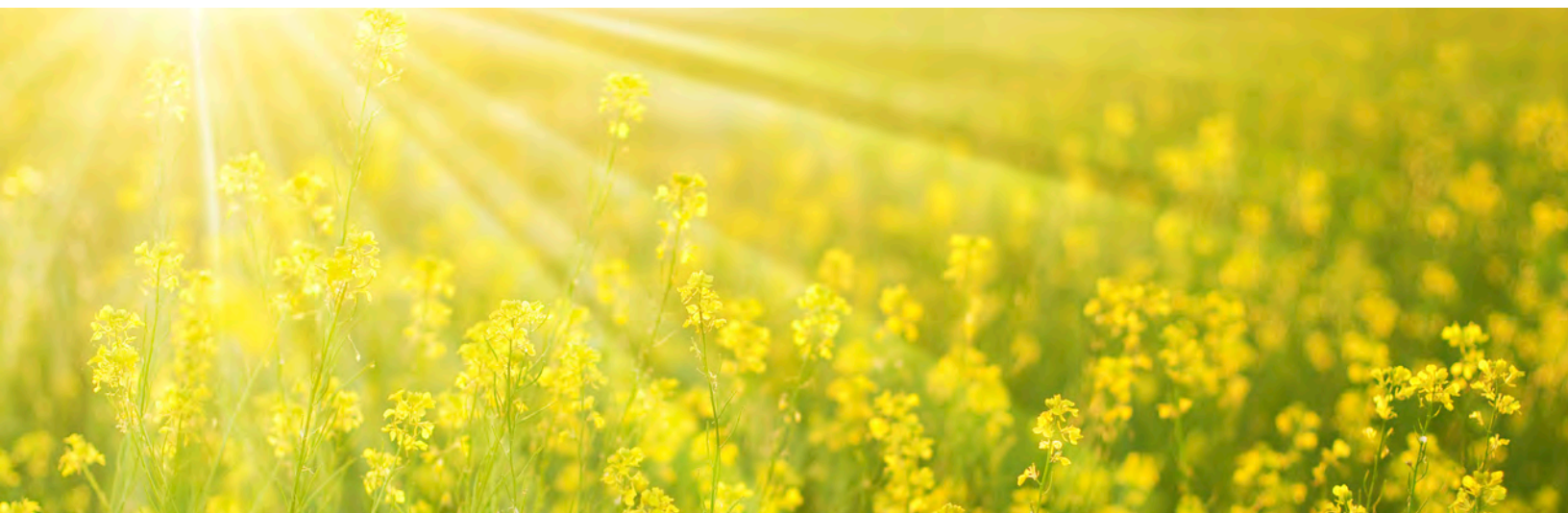
Sask Mustard is teaming up with SaskCanola, SaskFlax and the Saskatchewan Ministry of Agriculture to hold a series of five Oilseed Producer Meetings across the province. See the dates and locations above.

Please note that information specific to mustard is only on the agenda for the meetings in Rosetown and Swift Current.

Mustard is grown across the province, but most mustard growers are in the brown and dark brown soil zones.

At the Rosetown and Swift Current meetings, market analyst Marlene Boersch will include market outlook information specific to mustard and Sask Mustard executive director Kevin Hursh will provide a presentation on mustard agronomy, economics and new developments.

There is no charge to attend, but in order to have the appropriate amount of food and coffee, participants are asked to preregister. Sask Canola is handling registration so you can go to their website at www.saskcanola.com or you can link to their website through www.saskmustard.ca. You can also call 1-877-241-7044 to pre-register.



What to do if I find Jimsonweed in my mustard

by Clark Brenzil, PAg. Provincial Specialist, Weed Control

Recently reports have appeared in the news about the discovery of Jimsonweed (*Datura stramonium* – also called thorn apple, Devil's Trumpet, etc.) in canola fields in Alberta. The following is some background on the weed and the concern it presents.

Jimsonweed is a member of the tomato family and all parts of the plant are toxic if consumed. Jimsonweed and other ornamental relatives such as Angel's Trumpet contain several poisonous alkaloid compounds called tropanes, like atropine, scopolamine, and hyoscyamine.

Jimsonweed is an annual tropical plant, so it is somewhat out of place on the prairies. It can grow up to six feet tall under competition but plants are generally closer to three to four feet tall without competition but then bush out as wide as they are tall. Stems are hollow and may have some hairs and branch in a "Y" pattern. Keys to identifying Jimsonweed are the large, conspicuous trumpet-shaped flowers with spurs/tongues on the tips of the white (domestic *Datura* sp.) to purplish-pink (Jimsonweed) petals and large spiked seed capsules in the crotch of branches. Leaves are shallowly lobed in somewhat of a scalloped pattern (rounded in the trough of the lobe and coming to a point at the tips). Leaves are up to 10 inches long or wide but typically 1.5 to 2 times longer than wide and generally elliptical in shape and covered in short hairs.

Jimsonweed is a problematic weed of row crop (corn and soybean) production in the warmer regions of the USA and Ontario and Quebec, but exists here in the Canadian Prairie Provinces at the very edge of its range of adaptability. Because of this, it may be able to produce seed on average one year out of five.

Jimsonweed has a high temperature requirement for germination and long season for growth. Jimsonweed requires between 20 to 35 degrees Celsius soil temperatures to germinate and requires a high accumulation of growing degree days to complete its life cycle. As a result it shows up occasionally when weather conditions are right and mostly in gardens and areas of disturbed bare ground. This year, hot temperatures in May and June resulted in a rapid increase in soil temperatures combined with poor crop emergence resulting in lots of open spaces in crop canopies to allow weeds to grow. Jimsonweed would have been able to start early in the year and not encounter any barriers to its growth. In a more typical prairie growing season, Jimsonweed would not germinate (if at all) until late in the spring or early summer, by which time crop canopies would be well established and present a significant barrier to growth and seed set.

Jimsonweed seed may remain viable in soil for as much as 40 years when buried

deeper than 6 inches, but the viability of those remaining at depths of less than 4 inches will diminish over several years. As a result, Jimsonweed is unlikely to be an increasing weed problem.

News articles reported the occurrence of Jimsonweed in several canola fields in Alberta, all from one company and mostly of specific lots of a clubroot resistant variety. In Saskatchewan, the few reports received have come primarily from garden plots, in most cases where plants were intentionally planted. We have also received a report of a plant growing in a pigsty, one from a canola field and one from a mustard producer who thought he had remembered seeing it when swathing his mustard.

The concern in Alberta was the contamination of harvested canola seed with seed of Jimsonweed. Jimsonweed seed is approximately 3 to 4 mm long and 2 to 3 mm wide, flat on two sides and roughly kidney-shaped. Therefore, it should be reasonably easy for a skilled seed cleaner to remove most Jimsonweed seeds from a canola or mustard sample as long as they know to clean for it.

The largest number of plants reported in any one field is around 50 plants, but most fields have much fewer than this. Each plant may produce as little as 1,500 and as many as 30,000 seeds according to scientific literature. Given that plants



here are less likely to be as vigorous as those growing in more southerly locations, we may be able to estimate seed capsule production at roughly ten capsules of approximately 650 seeds per capsule. Therefore, our seed production is more likely to be in the 6,000 to 7,000 range per plant at most. In a worst-case scenario, spreading roughly 325,000 seeds or less through an entire field suggests that there will be a very low level contamination of Jimsonweed in mustard or canola.

The alkaloids in Jimsonweed are very poisonous if consumed or absorbed through skin or mucosal areas (inside mouth, sinuses, eyes, etc.) and are found in all parts of the plant to various degrees. It takes as little as 0.004 mg/kg of body weight in an injection to cause hallucinations. Seeds may contain between 0.2 and 0.7 % alkaloid content. With some rough calculations, and using worst-case scenarios on all estimates, as little as five plants per acre could be enough to produce hallucinogenic effects in those consuming the canola oil or in prepared mustard from that acre if no remedial action is taken. At the highest number of plants being reported in any one field in Alberta (50 plants per field), it is well below the threshold of human health effect (getting a little woozy, not getting seriously ill) and most fields are much less than 50 plants.



Photo courtesy missouriplants.com

To further minimize potential risk, Jimsonweed found in standing crops should be pulled out while swathing or combining. If the field has been harvested, have the seed cleaned and let the cleaner know that Jimsonweed may be in the seed. Plants should not be burned as the toxin can be released in the smoke and cause a risk of exposure to the toxin as the same tropane compounds are found throughout the entire plant. Research has shown that heating does not denature the toxins and the tropanes survive the baking of bread. To eliminate the viability of seed, collect and place capsules in a clear plastic bag and set out in the sun to solarize; heating the seed to kill it and keep it

from germinating. With the seeds killed through the solarisation process, both seeds and the plants themselves can be safely composted or put in landfill. Biological activity will denature the toxins over time.

If you see or suspect this weed is growing in your crop, and since there is ongoing interest in this weed, please let your Regional Crops Specialist know. See the Saskatchewan Agriculture website <http://www.agriculture.gov.sk.ca/> Regional Offices for the Regional office nearest you or call the Agriculture Knowledge Centre at 1-866-457-2377.



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Report on SMDC Marketing Initiatives

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

Great Saskatchewan Mustard Festival

More than 1,300 mustard enthusiasts attended the Great Saskatchewan Mustard Festival in Regina on August 30 this year, enjoying live music, mustard-themed activities and 22 different chefs offering their best mustard dish. Every year, the festival seems to get bigger and better!

Flavor, Quality & American Menus Conference

The Culinary Institute of America hosts this conference for 125 of the top corporate and executive chefs and other foodservice menu decision-makers from major chain restaurants, universities, hotels and others. Sask Mustard's objective in attending this event is to encourage increased use of versatile, tasty mustard in menus for major restaurant chains and universities. Many attendees were intrigued by the diverse uses of mustard and expressed a growing interest in using seed and sprouts.

Farm Tours for Chefs and Media

Mustard was one of several Saskatchewan-grown products highlighted on the "Taste the Land of Living Skies" farm tours for chefs and media this summer. Along with many other producer groups in the province, SMDC sponsored this Farm & Food Care Saskatchewan project that hosted

national and international food writers, international culinary academics and local chefs and other food experts on visits to farms and ranches to experience how food is produced in Saskatchewan. Our intent is to help people who influence consumers and the food they eat get a better understanding of modern farming.

Burgers and Fries Farms

You can't have a burger without mustard, right? SMDC partnered with the Saskatchewan Ministry of Agriculture and Ag in the Classroom to present the 'Burger and Fries' Ranch project this year. About 600 students from across the province visited the farms and learned about where their food comes and what is involved in producing burgers and fries. This hands-on experience allowed students to be involved with planting, harvesting and processing of gardens and crops. The first set of tours took place in June and the second set in September.

New Mustard Cookbook!

The new SMDC family-friendly mustard cookbook called *Mustard Makeovers and More – 100 Marvellous Recipes for Busy Families* just rolled off the presses in late August. We are thrilled with the results! With all kinds of family-friendly recipes from appetizers to stews to pizzas and desserts, there is a mustard dish in this

book for everyone. Cookbooks are \$15 (plus shipping) and will be on display at the SMDC annual meeting on January 14, 2016 in Saskatoon.

Adele Buettner offers a taste of mustard at the Flavor Quality American Menus Conference in Napa Valley, California.



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 Johnston 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 & MaackCanada
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: 966-543-0703

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.

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Mustard Grower

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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."

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