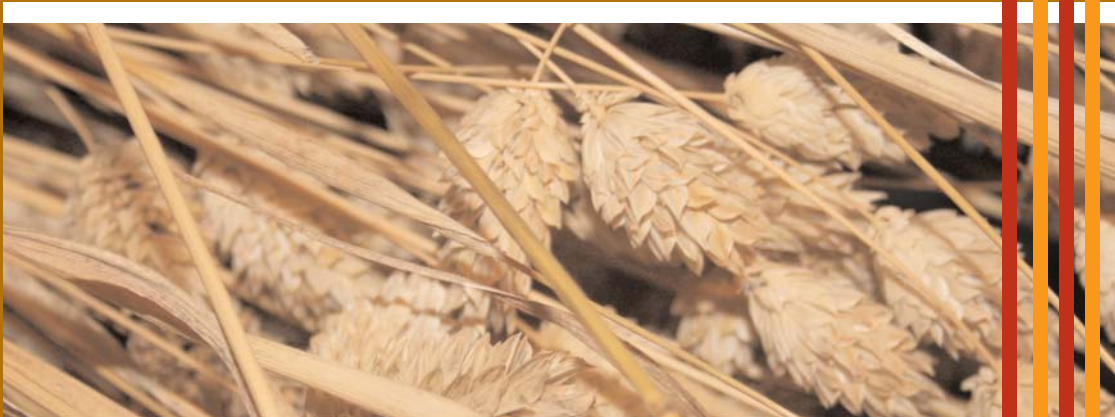


Canaryseed News

News from the Canaryseed Development Commission of Saskatchewan (CDCS)
& the Canaryseed Association of Canada (CAC)



Message from the Chair

by Glenn Byrnes

On behalf of the directors of the Canaryseed Development Commission of Saskatchewan, I want to express our appreciation to canaryseed growers for their continued support of the CDCS.

I am pleased to inform growers that the dossier, and all supporting documentation for the project to achieve Novel Food Status for canaryseed from Health Canada has been completed and sent to Ottawa. The objective of this exercise is to open up new market opportunities for the crop. (See Dr. Carol Ann Patterson's article on page 5).

In preparing this message, I couldn't help thinking back to how far canaryseed has come from its humble beginnings in the mid 1970s, when it was first introduced into west central Saskatchewan. It is a success story due in large part to the vision of three entrepreneurs, Bill Stevenson, Ron Butterley and Rienhold Nunweiler, who formed a

special crops company, Allstate Grain Company Ltd, and promoted the growing and marketing of canaryseed. In those early days in particular, canaryseed was used as an important cash crop to offset the low CWB quotas for wheat production.

It is my pleasure to welcome two new CDCS directors: Ken Clancy from Carrot River and David Nobbs from Kindersley. Also, a special thanks to Andreas (Andrew) Schaefer, our retiring chair, who has stepped down from the CDCS board after having reached his term limit. Andrew's work as a director and chairman were greatly appreciated.

I want to gratefully acknowledge the recent funding from the Saskatchewan Agriculture Development Fund (ADF).

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The Canaryseed News

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This funding will be targeted towards Pierre Hucl's canaryseed breeding objectives over the next five years, which include shorter straw length, enhanced herbicide tolerance, and leaf mottle resistance.

The CDCS will continue to fund the work by Bill May of Agriculture and Agri-food Canada at Indian Head on chloride fertilizer. Bill is also focusing his efforts on fungicide application for diseases. This work will be of special interest to growers after the disease pressure experienced last year due to an especially wet growing season.

There continues to be ongoing frustration with the onerous quarantine weed seed restrictions on canaryseed exported into Mexico. There remains a hope that a harmonized inspection protocol can be established between the Mexican and Canadian government agencies that will allow canaryseed to be inspected at origin, while respecting the Mexican quality regulations, so that canaryseed can flow more easily through the Mexican border without fear of shipment rejection.

As we gear up for another growing season here's hoping for a year of good weather, good production and good prices.

www.canaryseed.ca



Canaryseed Market Outlook

by Kevin Hursh

In its February 21 outlook, Agriculture and Agri-Food Canada predicted that this year's seeded acreage of canaryseed would remain relatively unchanged from last year "due to good returns relative to other crops and lower carry-in stocks."

Production and average yields are forecast to be the same as 2012-13, but supply is forecast to fall 5 percent due to low carry-in stocks. AAFC is forecasting the average price to rise marginally in the new crop year.

Watch for the seeding intentions report from Statistics Canada that comes out at the end of April. Based on an actual producer survey, that report sometimes provides a market direction if the acreage is higher or lower than trade expectations.



At the Wild Oats GrainWorld conference in Winnipeg on February 25 and 26, Brenda Tjaden Lepp of FarmLink Marketing Solutions predicted an eight percent drop in canaryseed acres.

At the same conference, Harold Davis of prairiecropcharts.com said that canaryseed should break out of its trading range and challenge the 30 cent high seen in 2008. According to the technical analysis of price charts, he said "it may not be crazy to think about 35 or 40 cent canary."

As of mid-March, there have been no dramatic swings in canaryseed prices. Both old and new crop prices have generally been in the 26 to 27 cent a pound range.

New Glabrous Line of Canaryseed Supported for Registration

Pierre Hucl, the canaryseed breeder at the University of Saskatchewan's Crop Development Centre has, received registration support for a new higher yielding line.

C08054 was evaluated in replicated yield tests from 2008 to 2012. From 2009 to 2012, it was grown in the Glabrous Canaryseed Registration Test. C08054 is brown seeded and glabrous (hairless or itchless). It was selected on the basis of higher grain yield.

On average, C08054 yielded 27.1 per cent higher than CDC Maria, 15.3 per cent higher than CDC Togo and 6.3 per cent higher than CDC Bastia over 14 trials in a four year period. C08054 is later heading (1.7 to 2.4 days) and taller (4.8 to 7.7 cm) relative to the other three varieties.

Only a small amount of breeder seed exists for C08054, so it will be a number of years before seed is commercially available to growers.

Canaryseed's Weak Response to Nitrogen and Strong Response to Fungicide

by W.E. May, D. Petty, B. Nybo, G.P. Lafond, A. Kirk and S. Brandt

Growers ask a lot of questions about the use of nitrogen and fungicides in canaryseed. With the increased amounts of nitrogen being used in other crops, growers can find it difficult to believe that using more nitrogen in canaryseed will not be beneficial. In addition, field scale research on the effect of fungicides on canaryseed has been carried out by IHARF at Indian Head (Table 1). These results show that canaryseed grown in the wetter areas of the province respond to a fungicide application. The next question is what happens if one combines N rates with a fungicide application. A project was set up at Indian Head, Melfort, Scott and Swift Current to answer this question with funding from the Saskatchewan Ministry of Agriculture's ADOPT program. The project was supported by the Agricultural Demonstration of Practices and Technologies (ADOPT) initiative under the Canada-Saskatchewan Growing Forward bi-lateral agreement

The demonstration was set up with six nitrogen rates 10, 20 30 50 70 90 kg/ha and two fungicide treatments, no fungicide or fungicide (Stratego). Grain yield at all the locations was below average. Increasing the rate of N increased the height of the canaryseed at Scott and increased lodging at Indian Head and Scott. Grain yield increased at Swift Current, but decreased at Melfort as the nitrogen fertilizer rate increased (Figure 1). This increase in grain yield has been seen once before at Swift Current with moisture increasing through the growing season. In addition, the vegetative growth was quite low at this site. The reason for the decrease at Melfort is unknown.

The application of a fungicide increased grain yield at Indian Head and Melfort (Figure 1). The lack of a response at Swift Current is probably due to the low amount of vegetative growth. There was no clear interaction between the fungicide and nitrogen fertilizer. Therefore, it does not appear that the application of a fungicide will allow canaryseed growers to use higher rates of nitrogen fertilizer. The Canaryseed Development Commission has obtained funding from the Saskatchewan Ministry of Agriculture to conduct this demonstration again in 2013.

Table 1: Effects of fungicide treatment on canaryseed yield at Indian Head, Saskatchewan.

Year	Check	Tilt	Headline	Quilt	CV	Check vs Rest
	-----	-----	bu/ac	-----	%	- p-value -
2011	26.4b	29.5ab	34.3a	32.4a	10.8	0.016
2010	27.5b	36.0a	41.9a	43.3a	12.9	0.001
2009	34.3b	44.9a	47.9a	---	6.9	<0.001
2008	37.4b	38.9a	---	---	1.5	0.033

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Novel Food Use Update

by Dr. Carol Ann Patterson

The canaryseed dossier is now complete and has been submitted to the Food Directorate at Health Canada. The CDCS is requesting Health Canada approve glabrous canaryseed as a new cereal food grain to be used as an ingredient in food products in Canada. Canaryseed is being proposed as an ingredient in breads, flours, breakfast cereals, and pastas and in baked goods such as biscuits, crackers, cookies, granola bars and baking mixes.

The dossier is the culmination of four years of work by the Commission to gather the evidence required to show glabrous canaryseed is safe for human consumption. In-depth analysis of its nutritional and chemical composition, studies evaluating potential allergenicity and toxicological concerns and an assessment of the potential dietary consumption of canaryseed ingredients by Canadians were all conducted as part of the new uses project.

Health Canada conducts an internal review of the body of submitted evidence. As there is a defined regulatory approval process, it will most likely be a few months before the CDCS learns the outcome of a decision by Health Canada.

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Canaryseed's Weak Response to Nitrogen and Strong Response to Fungicide

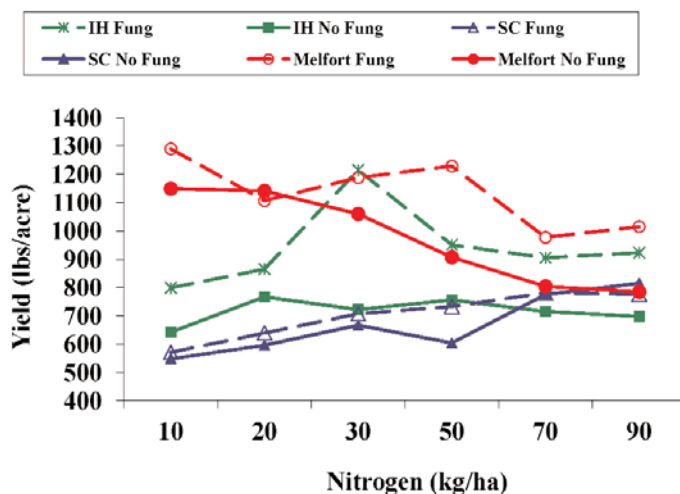


Fig 1. The effect of nitrogen and fungicide on the grain yield of Canaryseed

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Canaryseed provides a source of protein, carbohydrate, essential fatty acids, dietary fibre, minerals and vitamins as well as phytochemicals with potential health benefits (e.g. antioxidants). As the Canadian "Food Guide to Healthy Living" recommends 5-8 servings of grains per day, with at least half those grains being whole grains, there is an opportunity for glabrous canaryseed to be consumed as a whole grain in the Canadian diet.

Being gluten-free opens another market niche for glabrous canaryseed, although as, Maryellen Carlson of Avena Foods indicated at the AGM in January, producers need to be aware of the importance of establishing on-farm protocols to reduce potential cross contamination with gluten containing grains.

Next on the value-added canaryseed agenda is regulatory approval in the United States. This process is well on its way. Information from the Canadian dossier is being "repackaged" to meet U.S. requirements. An assessment of the potential dietary exposure in the U.S. population began recently. This GRAS (generally recognized as safe) process involves an external review of all the information by three experts in cereal science and toxicology; the preparation of a consensus document indicating canaryseed is safe for human consumption; and then submission of dossier and consensus document to the U.S. Food and Drug Administration for their review.

From a technical perspective, the Saskatchewan Food Centre is determining how best to process canaryseed into flours, whole groats and flakes to improve stability and shelf life and for incorporation into gluten-free formulations such as breads and cookies. From the food samples tasted so far, canaryseed flours and whole groats provide much needed texture, mouth feel and taste to these gluten-free products and, a bonus, provide an enhanced nutritional profile....more fibre, protein, minerals and vitamins than conventionally used ingredients such as tapioca and potato starches and rice flour. 2013 will be an exciting year for canaryseed producers with approval pending from both Canadian and United States regulatory authorities. Perhaps 2014, will see the first canaryseed ingredients and products on retail shelves in Canada!

This project was funded by the CDGS checkoff and the financial support of the Agriculture Council of Saskatchewan through the Advancing Canadian Agriculture and Agri-Food Saskatchewan (ACAAFS) program and the Canadian Agricultural Adaptation Program (CAAP). Funding for the ACAAFS and CAAP programs are provided by Agriculture and Agri-Food Canada.

Dr. Carol Ann Patterson of The Pathfinders Research and Management Ltd. is piloting the novel food project for the CDGS.

Canaryseed Flakes



Yellow Canaryseed



Brown Canaryseed

Registered Canaryseed Buyers

Agra Canex Ltd.
PO Box 669
Eston SK S0L 1A0
T: 866-962-4990
F: 306-962-4994

Agricom International Inc.
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North Vancouver BC
V7P 3R9
T: 604-983-6922
F: 604-983-6923

Agri-Food Central Ltd.
640 Plessis Road, Unit C
Winnipeg MB R2C 2Z4
T: 800-481-9493
F: 800-481-9493

Agritel Grain Ltd.
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1600 Two Mile Road
Winnipeg MB R2N 4K1
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F: 204-339-8002

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T: 306-244-5645
F: 306-244-5643

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St. Gregor SK S0K 3X0
T: 306-366-2158
F: 306-366-2220

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F: 416-504-0080

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F: 306-768-3599

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T: 250-652-7807
F: 866-565-1027

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T: 905-792-9700
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Fill-More Seeds Inc.
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Fillmore SK S0G 1N0
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F: 647-439-1335

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F: 306-885-2039

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F: 204-746-2343

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F: 604-597-4933

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Vancouver BC V6C 2G6
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F: 604-696-9977

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Cupar SK S0G 0Y0
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F: 306-723-4656

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Winkler MB R6W 4B3
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F: 204-325-2240

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F: 306-873-5997

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Regina SK S4R 8G9
T: 306-721-8900
F: 306-721-8988

Naber Specialty
Grains Ltd.
PO Box 1390
Melfort SK S0E 1A0
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F: 306-752-2909

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Unity SK S0K 4L0
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F: 306-228-3877

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Limited
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F: 204-943-8233

Paterson Grain
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Winnipeg MB R3C 4E2
T: 204-956-2090
F: 204-947-2386

Prairie Pulse Inc.
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Vanscoy SK S0L 3J0
T: 306-249-9236
F: 306-249-9245

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201 - 50 Lonsdale Avenue
North Vancouver BC
V7M 2E6
T: 604-990-2500
F: 604-990-2520

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PO Box 3000
Arborg MB R0C 0A0
T: 204-376-5228
F: 204-376-2201

Seaboard Specialty Grains
and Foods
201 - 2595 Quance Street
East
Regina, SK S4V 2Y8
T: 306-565-3911
F: 306-565-3912

Simpson Seeds Inc.
PO Box 1136
Moose Jaw SK S6H 4P8
T: 306-693-2132
F: 306-693-4489

SNTAJ Inc.
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Toronto ON M3C 2Z5
T: 205-304-3769
F: 270-447-1173

Toepfer International,
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Processing Division
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Saskatoon SK S7L 6M5
T: 306-657-3455
F: 306-657-3450

Ventures West Processors
Ltd. (dba Canpulse Foods)
PO Box 280
Kindersley SK S0L 1S0
T: 306-463-4444
F: 306-463-4494

Vigro Seed & Supply, a
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Inland Terminal
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Sedley SK S0G 4K0
T: 306-885-2144
F: 306-885-2249

Viterra
2625 Victoria Avenue
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The Canaryseed News



THE CANARYSEED DEVELOPMENT COMMISSION MISSION:

To coordinate research and market use expansion for the advancement of the canaryseed industry for the benefit of growers and other stakeholders.

The Canaryseed Development Commission of Saskatchewan was established in 2006 under the Agri-Food Act, 2004

**CANARYSEED DEVELOPMENT COMMISSION OF SASKATCHEWAN (CDCS)
& THE CANARYSEED ASSOCIATION OF CANADA (CAC)**

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