

## A NOVEL METHOD for the PRODUCTION of HIGH FUNCTIONAL PROTEIN from WHITE BEAN FLOUR

Bean protein is a cost-effective and environmentally friendly protein resource that has economic advantages over more expensive meat and dairy based proteins, which are most commonly used to meet the world's protein demands. White beans are primarily consumed as baked or canned beans but there is a growing interest in their utilization as a protein ingredient.

The conventional techniques for bean protein production involve the use of solvents, concentrated acids and alkali to extract the bean protein from bean flour which results in protein denaturation and solubility loss. Unfortunately, this process also generates a large volume of waste. With this in mind, the Ontario Bean Growers and Advance CERT Canada collaborated on what has become a two-phase project with the overall objective to develop a novel method of protein extraction that preserves the protein functionality and at the same time, is environmentally friendly and economically feasible. Funding for phase one of this project was provided in part by Agriculture and Agri-Food Canada through the Canadian Agricultural Adaptation Program (CAAP). In Ontario, this program was delivered by the Agricultural Adaptation Council.

Researchers found that using a dry separation technique to separate the protein from the bean flour preserved the functionality of the protein and enhanced its solubility by avoiding protein breakdown and microbial contamination. Another positive outcome of this technique is that it does not rely on solvents to separate the bean flour. Once perfected, this process should result in reduced capital and operating costs for extracting and concentrating dry bean protein. It will also significantly reduce the waste and treatment costs of using solvents.

As a result of the success of phase one of this project, Advance CERT Canada is taking this new technology to a larger scale through a one year project (March 2014 to March 2015) which was funded in part through Growing Forward 2 (GF2), a federal-provincial-territorial initiative. The Agricultural Adaptation Council assists in the delivery of GF2 in Ontario. The objectives of the project includes process optimization and fine tuning to improve and increase the protein separation efficiency and recovery. Following optimization, a feasibility study will be conducted to assess whether the technologies of the process, as well as their economics, can be integrated and engineered into a pilot scale plant.



## Report your yields to Agricorn by December 15

**Don't forget December 15 is the Production Insurance yield reporting deadline.**

If you still haven't reported your yield, call Agricorn at 1-888-247-4999 Monday to Friday, 7 am to 5 pm.

When you call, make sure you have your total dry yield or bin measurements, your final harvest date and the cause of loss if you are in a production claim.

### UPDATES TO THE WEBSITE



If you haven't been to the OBG website in a while, there have been some key additions for bean growers and buyers. A page has been added for new growers with links to resources and information. There is a market commentary section that will be updated every other week with analysis of different bean growing regions, world bean pricing and trade flows. There is also a section for buyers that includes our new Ontario brochure and the contact information for Ontario's bean dealers.



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NEW OBG PROMOTIONAL BROCHURE DEVELOPED FOR THE SIAL TRADE SHOW IN PARIS. VIEW ONLINE AT [www.ontariobeans.on.ca/bean-buyers](http://www.ontariobeans.on.ca/bean-buyers)

## ONTARIO BEAN GROWERS has joined the FARM ACTION NOW Task Force



At meetings in November organized by Grain Farmers of Ontario, a group of farm organization leaders met to discuss concerns about government regulations that are moving away from being scientifically based. The regulations will begin with government limiting access to neonicotinoids by 2017 despite the voluntary actions by farmers in the 2104 crop year having a significant, positive impact. However, the agricultural industry as a whole is concerned this is just the beginning of limited access to technology. This will not only negatively affect farm businesses but it will send signals to technology companies not to invest in product development for agriculture in Ontario.

The Farm Action Now task force proposes to develop a Blueprint for Ontario agriculture. This will involve an extensive consultation process with farmers, municipal representatives along with industry stakeholders and Chambers of Commerce. Priority areas include the responsible regulation of agricultural practices, access to science and technology such as pesticides and seed treatments and on-farm implementation of regulatory changes.

Farm Action Now is also proposing the implementation of an agricultural commissioner to advise the government on the implications of existing and new regulations and to help grow the agricultural sector. The current decision-makers in government are removed from agriculture. A commissioner with practical farming knowledge would provide important insight and support for those in government.

*This is all getting underway this fall and winter. OBG will keep you updated on our website and through this newsletter. We hope you will participate with your input into the development of the Blueprint when the time comes.*



### FROM THE CHAIR

#### Message from Grant Jones

Well 2014 will be remembered, that's for sure. After such a harsh winter and a spring that was so late coming, the mould challenges and lack of heat this summer were tough to handle. I don't know about you, but my bean crop didn't look very good as we neared harvest. The early harvest reports surprised me when I heard yields were at or above average and crop quality was good. As we neared the end of harvest, some guys just didn't fare as well when it wouldn't quit raining. Now that the year is done, it looks like yields and quality were variable and moisture at harvest was high. The best yield I heard was 33 bags per acre while some fields averaged below 12. Overall, however, from what we have heard from growers across Southwestern Ontario, quality and yields were average.

Unfortunately, prices haven't held this fall like they did last year. There are many factors influencing prices including soybean market declines, larger edible bean crops in Asia and Latin America and the increased acreage in 2014 over last year in both Canada and the US.

The board had a lot to do this year as we began the work of delivering on the strategic plan. Our board is working with the Pulse Industry Round Table on a study of worldwide bean production and trade that will be complete this winter. The announcement of International Year of Pulses in 2017 has deepened our relationship with Pulse Canada as we work together on projects that will showcase beans worldwide. Two international missions have identified opportunities for Ontario beans and have increased the board's knowledge of the market for beans. OBG also continues to identify areas for increased bean research and will be advertising a request for research proposals in December. Finally, OBG continues to advocate on our members' behalf on many issues including neonicotinoids, MRLs and market access.

I wish you and your loved ones a Merry Christmas and a Happy New Year. I hope to see everyone soon at our Annual General Meeting on February 17, 2015 in Kirkton.

GRANT JONES, OBG CHAIR



### POOL UPDATE

As you will see in the financial statements posted on our website, there were 372,649 tonnes committed to the pool in 2013. Total payments to producers were \$323,451 or \$867.98 per tonne (\$39.10 per bag).

For 2014, producers have until June 30, 2015 to commit beans to the pool. The initial payment for 2015 crop beans is \$536.99 per tonne (24.19 per bag).

## 2015 ANNUAL GENERAL MEETING

The Annual Meeting for **Ontario Bean Growers** will take place **February 17, 2015** at the Kirkton-Woodham Community Centre at 70497 Road 164 (Highway 23). The meeting will commence at 9 am.

Nominations for district director positions on the **OBG Board of Directors** will be accepted in writing by the OBG General Manager at the Guelph office.

Nominations must be in written form using the form supplied by OBG that includes the name of the nominee, the names of the nominator and seconder and the signature of all three. All nominations must be received or postmarked by the deadline of 5 pm Eastern Time 10 business days prior to the Annual General Meeting (February 3, 2015).

The nomination form is online at [www.ontariobeans.on.ca](http://www.ontariobeans.on.ca) under the "Grower Resources" tab.

For those who have previously served as a director on the Ontario Bean Producers' Marketing Board and/or the Ontario Coloured Bean Growers Association, there is a maximum 15 combined years of service after which a grower is not eligible to run for a director position on the OBG board. Years of service as a delegate and/or committee man do not count in this aggregate.

Delegates will also be elected at the AGM – 8 per district. Please read the article within this newsletter about the role of a delegate. If you are interested in becoming a delegate, nominations for the position will be taken at the Annual Meeting from the floor.

More information on the election process and eligibility can be found in the Farm Products Marketing Act here:

[http://www.e-laws.gov.on.ca/html/source/regs/english/2013/elaws\\_src\\_regs\\_r13162\\_e.htm](http://www.e-laws.gov.on.ca/html/source/regs/english/2013/elaws_src_regs_r13162_e.htm).

➤ [www.ontariobeans.on.ca](http://www.ontariobeans.on.ca)

**The agenda will include updates from Chair Grant Jones and General Manager Erin Morgan as well as the presentation of the Ontario Bean Growers' first year financial statements. Gordon Bacon, CEO for Pulse Canada will make a presentation on the 2017 Year of Pulses and the opportunities it creates for pulse growers worldwide.**

### RESOLUTIONS

Ontario Bean Growers would like to hear from our members through a resolution session held at the Annual General Meeting. We ask that all resolutions be submitted in writing to the General Manager by noon on the day of the meeting.

### ELECTION

In 2015, the membership of OBG will elect four directors to the Ontario Bean Growers Board of Directors to a two-year term – one from each of the three districts and one Director at Large. The districts are:

**District 1** – Brant, Chatham-Kent, Elgin, Essex, Haldimand, Hamilton, Lambton, Middlesex, Niagara, Norfolk and Oxford

**District 2** – Bruce and Huron

**District 3** – Perth, Waterloo, Wellington and all other geographic areas not within Districts 1 & 2

**All members from any district are eligible to run for the Director at Large position.**

A grower who produces beans in a district is eligible to vote and be elected as a director on the Ontario Bean Growers Board of Directors for that district. If a grower produces beans in more than one district, that grower may vote and run for the position of director to the OBG Board of Directors in only one district. If a grower wishes to vote and/or be nominated to run for the position of director to the OBG Board of Directors, in a district other than the district in which they reside, that grower must make declaration to the OBG General Manager in written form on or before January 6, 2015. Such a declaration will change the grower's district designation in the OBG database until such time as a future written declaration is received by the OBG General Manager. Otherwise, each grower will be assigned to the district in which they reside according to the current OBG database.

A grower is eligible to vote and run for a director position on the Board of Directors if they grew dry edible beans of any market class in 2013 and/or 2014, or if they have a contract to grow beans in 2015. If the farm is not individually owned, only one person may represent that farm entity. This can be an employee, shareholder, director or partner in the business. In order to vote on behalf of a farm with multiple owners, a 2015 Farm Representative Designation form must be completed prior to or on the day of the AGM prior to the election. The form can be found online under the "Grower Resources" tab on the Ontario Bean Growers website [www.ontariobeans.on.ca](http://www.ontariobeans.on.ca) – please complete it and bring it with you to the AGM on February 17, 2015

*There will be no proxy votes allowed at the 2015 AGM.*

## COMMITTEE UPDATES

|                    | MEMBERS   | ROLE   | REPORT  |
|--------------------|---|--|---|
| RESEARCH           | Mike Donnelly-Vanerloo<br>Warren Wolfe<br>Larry Jenner<br>Jim Gowland<br>Jeff Allen<br>Matt Aerts<br>Tom Harris | Guide annual research priorities, review project proposals, results and funding opportunities to make research recommendations to the board.   | <p>The Research Committee updated the research priorities this fall to:</p> <ul style="list-style-type: none"> <li>Genetic improvement;</li> <li>Pest management (weed, disease and insect) and;</li> <li>Agronomics.</li> </ul> <p>OBG has invested in eight research projects for the 2014/15 fiscal year. The investment in these projects is over \$200,000 and the majority are in the national Pulse Canada research cluster.</p> <p>OBG has also put out a call for proposal to the research program to find new projects that meet our priorities and increase our investment in bean research. Additionally, OBG works with Pulse Canada on research that supports new product development using pulses.</p>   |
| MARKET DEVELOPMENT | Jim Gowland<br>Walter McKenzie<br>John Norris<br>Mike Donnelly-Vanderloo<br>Sean Ernewein<br>Dave Woods         | Guide annual market development priorities, review market development initiatives and investments for results based on priorities and evaluate funding opportunities to make market development recommendations to the board.          | <p>The Market Development Committee has four priorities to increase the sales of Ontario beans.</p> <p>The opportunity to increase sales of black beans to Mexico was explored through a trade mission in March 2014. Connections were made with the top four importers of black beans in Mexico and ongoing communication will take place to promote Ontario black beans and keep us top of mind.</p> <p>The first year of a project to improve navy bean performance through end user variety testing was completed in 2013/14. A canner provided the results of their variety tests alongside the variety evaluations done by the canning lab at Agriculture and Agri-Food Canada. With only one year of data there are no conclusions yet to draw but the project has provided an opportunity for dialogue with one of our largest customers about Ontario bean quality that we hope to continue over many years.</p> <p>Work continues with Pulse Canada to increase access to international markets through free trade agreements and prevent MRL issues.</p> <p>This year, OBG participated in the second largest food trade show in the world at SIAL Paris in October. The benefit of the show was improved market intelligence on large seeded bean opportunities in Europe and a better understanding of the trade. Follow up work will continue throughout the fall and winter.</p> |
| FINANCE & AUDIT    | Larry Jenner<br>Grant Jones<br>Mike Donnelly-Vanderloo,<br>John Norris  | Review the financial statements of the board including the quarterly profit and loss statements and year-end audit for accuracy and performance based on budget and develop and recommend the annual budget to the board of directors. | The approved 2013/14 Financial Statements have been posted to the Ontario Bean Growers website at <a href="http://www.ontariobeans.on.ca">www.ontariobeans.on.ca</a> under the Grower Resources tab. The 2013/14 crop year came under budget.   |
| GOVERNANCE         | Larry Jenner<br>Jim Gowland<br>Warren Wolfe<br>Walter McKenzie  | Guide policies, procedures and by-laws of the board, plan the Annual General Meeting including elections, procedures and guest speaker and make recommendations to the board on such matters.  | The Governance Committee focused on improvements to the Annual General Meeting procedure this year. Changes will include a new registration procedure, a defined role for delegates and an improved election system.  |



## Role of a Delegate

If you are considering volunteering as a delegate for **Ontario Bean Growers**, the organization thanks you. The goal of this delegate position is to provide grassroots input to the board of OBG on opportunities and issues facing growers of beans in Ontario.

**The role involves participation in three meetings per year:**

- The August meeting at the Huron Research Station in Centralia for a tour of the plots, an overview of OBG's research investments and an opportunity to provide feedback and input into the direction of research at OBG
- An annual board meeting in your district where the board requests an update from the delegates on the opportunities and issues in that region as well as any other ideas for ways OBG can benefit bean growers in the region
- And the OBG Annual Meeting which takes place each year between February 15 and March 15 where delegates are responsible for bringing resolutions to the AGM from their districts

**Delegates can also volunteer for a committee:**

- The Research Committee of OBG has three delegate seats. The role of the committee is to guide the annual research priorities, review project proposals, results and funding opportunities and to make research recommendations to the board.
- The Market Development Committee of OBG also has three delegate seats. The role of the committee is to guide the annual market development priorities, review market development initiatives and investments for results based on priorities and evaluate funding opportunities to make market development recommendations to the board.

Any delegate interested in serving on either OBG committee should inform one of their district directors.

There are other ways of helping out the board as a delegate either by assisting with promotional efforts like the Zurich Bean Festival booth in August or at other events in your area. Additionally, the board welcomes delegate input on ways to improve the organization, add more value to bean growers and expand acreage.



### SIAL PARIS REPORT

In late October, 2014, Ontario Bean Growers staff participated in the world's second largest food trade show – **SIAL Paris**. The show attracts 150,000 participants from over 100,000 countries and OBG attended with the goals of increasing market intelligence, making sales contacts and learning more about international regulations.

The show was divided into eight halls, all probably half a kilometre long and half as wide. Halls one through four held pavilions organized by country to showcase traditional and new food products sold by different companies in their booths. Ontario Bean Growers had a booth in Hall 4 within the Canadian pavilion and hundreds of people walked by every hour during the busiest times.

Hall 5 was for the large, multinational food and beverage companies wanting large booths with demonstration kitchens and areas for dining on their products. Halls 6 and 7 were for meat, dairy and equipment companies while Hall 8 was for food companies from China.

Ontario Bean Growers' staff spent five days at the show speaking to interested buyers, other sellers from growing regions around the world and learning about the latest food trends. For in-depth information on the different production regions that were represented at the show, including China, Argentina, the US and Ethiopia, there will be market commentaries on the OBG website at [www.ontariobeans.on.ca](http://www.ontariobeans.on.ca) with information from the show relevant to Ontario's bean growers.

The food trends at the show included canning companies moving away from cans toward glass and plastic jars because higher value is placed on product you can see through the packaging. New products like ready-to-eat beans and rice meals, bean soups in new packaging, bean pasta for gluten free consumers and new beans in sauce options were on display all over the show. Gluten free and organic are still huge food trends and were selling features in many booths.

The value of the show will be seen in the coming months as our communications go to buyers with the harvest update and dealer contact information, followed by regular email newsletters.