



ONTARIO
Bean
GROWERS

Photo courtesy of Spencer Wenzelbach



MESSAGE FROM THE CHAIR

As I sit here typing this message at the end of April, tomorrow's forecast is below freezing and snow. That is quite the departure from last year's season start. To my knowledge there is next to zero field work done anywhere in the province, compared to this time last year when a significant portion of the corn crop was planted into great conditions. The weather is just one variable that is significantly different from where we were 12 months ago.

On the upside, we no longer are dealing with the mask mandates or many of the other issues that the covid pandemic plunged our society into. The experience we all had with Covid taught us all a lot and forced us to reconsider some of our priorities in both our private and public lives.



Health mandates would not allow OBG to have face to face meetings just like most other organizations. What this experience taught us was that we could successfully hold online meetings and calls that enabled us to perform the necessary activities needed but at considerable cost savings. The term 'working from home' took on an entirely new meaning and this huge paradigm shift demonstrated how business can be done more efficiently.

Now that Covid has relinquished centre stage, it has unfortunately been replaced by a potentially more destructive situation, that is the war in Ukraine. The perennial tensions that exist in that part of the world have finally culminated into an armed invasion by Russia. This war has global reaching consequences both socially and economically, and we are feeling that right here at home.

The Canadian government has imposed sanctions on Russia that have direct financial impact on the farmers here in Ontario. Most are likely aware that fertilizer prices are being affected by, not only an origin issue, but more directly with a 35% tariff on Russian fertilizer.

This is hitting us all in the pocketbook very hard, without any consequence to intended target of the tariff. To this grower, it just looks like just one more tax in a very long list of taxes that are putting Ontario bean growers in an un-competitive situation. OBG has worked in tandem with the Ontario Agri-Business Association (OABA) in a letter writing campaign, asking the government to exempt fertilizer orders made prior to March 2. We continue to look for opportunities to bring this issue forward so that we can share the impact that this tariff will have on our growers.

One possible upside is beans take less commercial fertilizer than some other crops so it may be advantageous to keep bean acreage a priority in your rotation this year. In fact, OBG is currently funding work on dry bean's response to various macro and micronutrients in a 2 by 2 band to help growers get the most out of their fertilizer dollar.

SAVE THE DATE!

Annual Research Day & BBQ

August 24, 2022

Huron Research Station

1:00pm - research presentations

4:00pm - plot tour

Steak BBQ to follow tour

Register here:

obgresearchday2022.eventbrite.ca

Pre-registration is required.



**BETTER
WITH BEANS™**

Agriculture has always been an incredibly risky yet rewarding endeavour and dry bean growers know this more than most. Agriculture is becoming a very expensive game to play, almost on an exponential rate. Despite the ever-changing nature of the business, it is always important for bean growers to maintain a consistent supply for our dealers to keep their market share in the industry as these relationships are massively competitive.

Ontario dry bean farmers operate in some of the most envied agriculture areas of the world as well as live in the best country on earth. As you go out into the fields this year, please try to keep our risk in perspective.

Compared to our peers in Ukraine right now, we are very fortunate and we ought to keep this in mind as we navigate another growing season.

Wish you all success in the 2022 growing season.

Dave Woods

The Little Bean That Could: Why Dynasty Changed the Dark Red Kidney Bean Game

Nearly a decade after its release, the Dynasty Dark Red Kidney Bean has set the bean world on fire and now comprises 90% of all dark red kidneys grown in Ontario.

It's hard to imagine a humble little kidney bean making such big waves in the farming world and food space.

But that's exactly what the Dynasty Dark Red Kidney Bean has done and why it's earned the Seed of the Year Award for 2022, which recognizes breeders for their research accomplishments in developing a new variety of field crops, forages, fruits, vegetables and herbs.

The Dynasty bean, which was bred at the University of Guelph by Peter Pauls and Tom Smith, has had a huge impact on the dry bean industry in Ontario. Its rise in acreage across the province has been phenomenal over the past eight years, and it now represents 90% of the dark red kidney bean acreage in Ontario.

It's also been widely adopted abroad, approaching 50-60% of the total dark red kidney bean acreage across North America. Its wide adaptability, tremendous yield potential and stress tolerance have made it one variety that bean farmers want to grow.

"Dynasty is all about yield. It has always stood out in that department," says Paul Cornwell, field marketer and seed manager for Hensall Co-op based in Ontario, which markets the bean. "Of all the varieties we've handled over the years, Dynasty is one that really broke through on so many levels. It's such a big success story all-around."

Based on yield data generated through Ontario Pulse Crop Committee variety trials, Dynasty consistently outperforms Red Hawk from the Michigan State University breeding program, showing an impressive 613 lb/acre advantage (based on the five-year average) over Red Hawk.

"DYNASTY IS ALL ABOUT YIELD. IT HAS ALWAYS STOOD OUT IN THAT DEPARTMENT."

—PAUL CORNWELL

With current prices for kidney beans, that's about \$324.89 more per acre going back into grower's pockets if they grow Dynasty, says Ontario Bean Growers Project Manager Jennifer Mitchell.

"If we were very conservative with our numbers and said the return to growers was \$250 more per acre, based on 15,000 acres of Dynasty grown in Ontario, that's a \$3.75 million return to those growers."



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Based on information provided by Ontario bean dealers, Mitchell estimates that 90% of the dark red kidney beans planted in Ontario are Dynasty.

For Pauls and Smith, seeing Dynasty become the definitive dark red kidney bean variety in Ontario and abroad is a huge reward considering it didn't live up to expectations the first year it was trialed.

"During the first year of provincial trials it for some reason didn't yield well compared to the checks, but we knew we had something in this line. So, we entered it as a first-year line again, and of course then it performed the way we expected. We still don't really know what happened that first year, but it's a good thing we believed in it and didn't give up," Smith says.

Dynasty has a complicated pedigree, having been derived from a double-cross between HR85-1885 and Montcalm and USWA-39 and AC Litekid — it is part of what is known as a conical cross. F1

plants were grown in the growth room in 1997 at the University of Guelph and crossing was made between F1s to derive the F1 double hybrids.

The F1 double hybrids were grown in the field in 1998 at the Elora Research Station and all seeds were bulked. The F2–F4 generations were advanced using the modified bulk method. Single plant selection for maturity, resistance to common bacterial blight, kidney bean seed type, and high pod number were made from space planted F5 bulk plots in the field in 2002.

Now that Dynasty dominates the kidney bean industry, Pauls says the reputation of the University of Guelph breeding program has received a significant boost.

"It's really opened up the eyes of some of the people in the bean breeding community. It's not that large a community, and word travels fast and far when you're able to develop really good lines."

Dry Bean Seeding Rate Project Results

With the support of six Ontario dry bean producers located in Huron, Perth and Oxford Counties, a large seeding rate trial was conducted over 3 years on approximately 900 acres of cranberry beans, 600 acres of white beans and 200 acres of black beans.

Using Premier Equipment's Enhanced Learning Blocks, and significant support from Greg Kitching, four different seeding rates for white/black beans (44, 77, 110 and 120 thousand seeds/ac) and cranberry beans (40, 52.5, 68 and 82.5 thousand seeds/ac) were planted in 30" rows in randomized, replicated plots. The plots were seeded with the farm cooperators variable rate planting equipment and harvested with their combines, with after-market yield monitors installed on the Pickett bean combines (visit bit.ly/drybeanyieldmonitor) used to harvest cranberry beans. Each plot was approximately 0.5 acres in size, and there were up to 60 plots per field.

Visit bit.ly/seedingrate for the full report on method and results. Or contact jennifer@ontariobeans.on.ca or 519-510-8556 to receive a hard copy of the report.

This project was funded in part through the Canadian Agricultural Partnership (the Partnership), a federal-provincial-territorial initiative.

Resources for
Ontario dry
bean growers

drybeanagronomy.ca



Do we have your Email address?

If you have never received an Email from OBG then the answer is no. Help us ensure you receive timely news as well as reduce our printing and postage expenses by sharing your Email address. Just scan the QR code to complete the form or send your name, farm name and email address to jennifer@ontariobeans.on.ca.



2022 PRODUCT ADVISORY

Please note - Each Bean Dealer could have specific needs for their global markets. Check with your Bean Dealer regarding the products that are acceptable for use on each market class.

The 2022 Product Advisory was released recently and OBG would like to remind growers that while Glyphosate is marked as “Be Informed” on the Advisory, **that no Bean Dealers in Ontario are allowing for the use of Glyphosate as a pre-harvest aid on dry beans.** OBG supports Bean Dealers in maintaining market access through complying with end-user demands regarding pesticide use.

PULSES	PEAS	LENTILS	CHICKPEAS	DRY BEANS	FABA BEANS	COMMENTS
Herbicide						
Sethoxydim (e.g. Poast Ultra)	✓	!	!	✓	✓	Consult with your grain buyer before using sethoxydim on lentils and chickpeas. The MRL definition of sethoxydim is anticipated to change in the European Union (EU); however, the timeline is unknown. As a precaution, it is not recommended to apply sethoxydim on lentils and chickpeas destined for the EU.
Fungicide						
Chlorothalonil (e.g. Bravo ZN)	✓	✓	!	NR	NR	Consult with your grain buyer before using chlorothalonil on chickpeas. MRLs have been revoked in the EU and established at low levels.
Desiccant						
Glufosinate - Western Canada (e.g. MPower Good Harvest)	NR	✗	NR	NR	NR	Do not use glufosinate on lentils as a crop desiccant. There is an elevated risk of MRL-related trade disruption due to missing or very low MRLs in most major markets. Grain buyers will not accept treated lentils.
Glufosinate - Eastern Canada (e.g. Ignite)	NR	NR	NR	!	NR	Consult with your grain buyer before using glufosinate on dry beans in Eastern Canada. MRLs are missing or set at low levels in most major markets.
Pre-Harvest Weed Control						
Glyphosate (e.g. Roundup)	!	GREEN LENTILS !	!	!	!	Glyphosate is registered for pre-harvest weed control. Do not use as a desiccant. To prevent unacceptable residues in the harvested grain, only apply pre-harvest glyphosate when grain moisture content is less than 30% in the least mature part of the field, including any areas of re-growth with seed production. Consult with your grain buyer before using pre-harvest glyphosate on pulse crops. MRLs are established in all major markets; however, marketing restrictions may still be present due to scrutiny of glyphosate in the global marketplace. Green lentils are classified “yellow - be informed”, while red lentils are classified “green - no market risks identified”. This variation is due to the difference in sensitivities of end use markets between the two market classes. Most dry bean buyers do not accept pre-harvest glyphosate.
	MA	RED LENTILS ✓	MA	MA	MA	

CANOLA PRODUCT UPDATE: There are no market concerns with products registered for use on canola.

- ✓ No market risks identified in major markets. Treated crop accepted by most grain buyers.
- ! Be informed. Treated crop may not be accepted by some grain buyers. Consult with your grain buyer before using this product.
- ✗ Do not use. Treated crop will not be accepted by grain buyers.
- NR Not registered. Only use registered product.
- MA Market acceptance issue. Maximum Residue Limits (MRLs) are established in major markets but marketing risks may still be present.

All information on this advisory is provided in good faith as of the date of publication; however, we make no representation or warranty of any kind, expressed or implied, regarding its accuracy, adequacy, validity, reliability, availability or completeness. Growers are encouraged to review this information and consult with your grain buyer about potential market risks before proceeding with crop management plans.



Last update, March 16, 2022. Any further updates will be posted at keepitclean.ca/product-advisory

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