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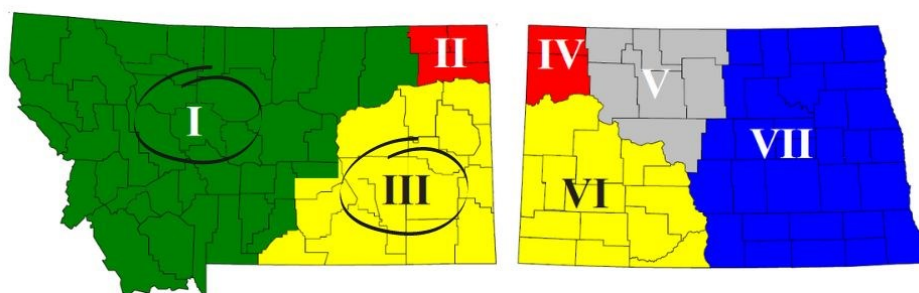
Do YOU Want To Make A Difference In The Pulse Industry?

The Northern Pulse Growers Association (NPGA) is looking for passionate pulse producers to serve on their Board of Directors! The NPGA Board currently consists of 10 Board seats. Each board member is eligible to serve (3) - three year terms. The NPGA board meetings take place in person 1-2 times per year, and the rest a held on Zoom.

Serving on the board of NPGA is more than just a title; it's an opportunity to actively shape the trajectory of an organization committed to pulse growers. As a board member, you will play an active role in our strategic direction, develop impactful initiatives, and advocate for your fellow pulse grower. This is also a fantastic opportunity to enhance your leadership, decision-making, and problem-solving skills as well!

By serving on the NPGA board, you'll become an advocate for progress, and a driving force in our mission to increase pulse producers profitability through education, research, domestic and international marketing and government relations. Together, we can create a better future for all.

Ready to take the next step? Please contact the NPGA office at **(701) 222-0128** or e-mail Berndt@northernpulse.com.



1710 Burnt Boat Drive
Suite 4
Bismarck, ND 58503

PHONE NUMBER
ND: 701-222-0128
MT: 406-787-5380

E-MAIL:
info@northernpulse.com

WEBSITE:
northernpulse.com

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New Sponsored Fall Recipes - Perfect For Your Dinner Table!

The Northern Pulse Growers Association recently teamed up with the [Real Food Dietitians](#) (RFD) to sponsor two NEW fall recipes incorporating pulses. We thoroughly enjoy working with this group as they're a team of food nutritionist, they're located in the Midwest (yes! To Midwest flavors!), and they have a very active/responsive social media following. The recipes below were released during our sponsored [2-week meal](#) & [exercise plans](#) (with [Nourish Move Love](#) (NML)), and they were a [HIT](#) online (*already receiving well over a million impressions between the two*). The best part is that this content is available to the public at [anytime](#) for **FREE**. Throughout the campaign, RFD & NML educated their audiences on 1) the health benefits of pulses, 2) where these crops are grown, and 3) how to easily incorporate them into recipes by sharing videos with their followers.

Overall, we were very impressed with this campaign and look forward to teaming up with them again in February to celebrate World Pulses Day & American Heart Month! Stay tuned for more content in a few short months. Until then, give these recipes a shot my clicking the links below! They're very easy to throw together, are jam packed with nutrients, and embody those delicious fall flavors. Be sure to tag us & the Real Food Dietitians on social media, or e-mail us, to let us know what you think!

[Fall Lentil Salad](#)



Photo credit: The Real Food Dietitians

[Moroccan Lentil & Beef Stew](#)



Photo credit: The Real Food Dietitians

What We've Been Up To!

Below is a brief highlight of some of the NPGA programs, activities and representation around the region this month:

- Attended the USADPLC Trade Association Meeting in New Orleans, Sept. 26-28.
- Donated pulse workbooks to Kids Agriculture Experience Day in Minot, ND (Sept. 26)
- Sponsor of 2-week meal & exercise plans from Oct. 2 - 13.
- Continued current radio marketing campaigns with Western Ag Network, Northern Ag Network, and Red River Farm Networks.
- Continued conversations with Montana Grain Growers Association & PNW Canola Association for upcoming MGGA Convention (Nov. 28-30).
- Presented at the annual NDSU Extension Conference in Fargo, ND (Oct. 25-26).
- Participated in all USADPLC Committee Meetings.

Montana Grain Growers Convention

Featuring: Northern Pulse Growers & PNW Canola Association

As you may have noticed in previous issues of "The Pulse" newsletters, we are looking forward to being a major sponsor of the Montana Grain Growers Convention in Great Falls, MT this **November 28 – 30**. While this won't be the stand-alone "Montana Pulse Day" everyone is used to, pulses and canola will be featured during this jam-packed 3 day convention.

The NPGA is set to sponsor Jacob L. Shapiro, who is back by popular demand. If you missed Mr. Shapiro at the previous MGGA meeting or at our annual Convention in Minot, here is your chance! [Jacob Shapiro](#) is a speaker, consultant, author, and researcher covering global politics and affairs, economics, markets, technology, history, and culture. He is a partner and the director of geopolitical analysis at [Cognitive Investments](#), a registered investment adviser offering wealth management services to individuals, family offices, and institutional investors. Jacob is a wealth of knowledge and brings a unique perspective on the current global political climate which, in turn, can impact agriculture in the Midwest.



**Jacob L. Shapiro—NPGA
Sponsored Speaker**



**Chuck Penner—NPGA
Sponsored Speaker**

The NPGA will also be sponsoring [Chuck Penner](#) with [Left-Field Commodity Research](#). Chuck Penner started Left-Field Commodity Research in 2010, providing independent research and analysis for special crop, small grain and oilseed markets. LeftField's services include weekly market analysis and client-specific research projects.

Other pulse related sessions on the agenda include "Investing in the future of our crops", pulse specific "Shop Talks", the research poster session, Crop Insurance Panel, Fireside chats with the National Commodity Associations, as well as the panel of elevators

We hope by joining forces and offering information on all commodities, we can learn from each other and grow all our industries (while saving our producers/industry members on travel costs). Be sure to follow our website & social media accounts for updates. We look forward to seeing you in Great Falls!

Visit www.mgga.org to register!



Montana Department of Ag
PO Box 200201
Helena, MT 59620-0201

PHONE NUMBER
406.444.2402

FAX
406.444.9442

E-MAIL:
agr@mt.gov

Ryan Bogar..... Producer
Chair - Vida, MT

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Galata, MT

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Dr. Bajwa Sreekala MSU Dean of Ag
Bozeman, MT

Jeff Winkler Industry
Fort Benton, MT

Liz Edmundson Exec. Director
Phone: 406.438.7570
E-Mail: pulse@mgga.org



ND Dry Pea & Lentil Council
PO Box 1352
Bismarck, ND 58502

PHONE NUMBER
701.222.6338

FAX
701.222.6340

Greg Busch.....District 1
Columbus, ND

Jeremy Huether.....District II
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Adams, ND

Diagnosing Root Rot of Pea & Lentil

By: Audrey Kalil, Ph.D., Plant Pathologist

North Dakota State University Williston Research Extension Center

14120 Hwy. 2 | Williston, ND | 58801-0219

Root rot is an increasing problem in pea and lentil acres across North Dakota and Montana, and diagnosis is important in developing a management strategy. Symptoms of root rot may be mistaken for herbicide injury, water logging or drought stress for example, and without proper diagnosis yield loss to root rot can continue undetected for years until it becomes unmanageable in a field. Armed with proper diagnostics, growers can institute important management strategies that will allow for successful pulse crop production for years to come.

The most common root rot pathogens we see on pea and lentil in North Dakota are the water-mold *Aphanomyces euteiches* and the fungal pathogen *Fusarium*. Several species of the genus *Fusarium* can cause root rot in peas and lentils, but *Fusarium avenaceum* and *Fusarium oxysporum* have been most frequently identified in pathogen surveys conducted by NDSU plant pathologists. Both *Aphanomyces* and *Fusarium* can infect the seedlings right at germination, especially under warm soil conditions. In a field where they are both present, we typically see *Aphanomyces* infecting first and then *Fusarium* following after. To detect *Aphanomyces* in a field, it is best to sample early in the season (V4-V6) before *Fusarium* predominates in the roots.

Symptoms of these two root rots are distinct, with *Aphanomyces* causing a golden brown discoloration of the tissue, which becomes soft and is easily removed (**Figure 1**). *Fusarium* usually causes a black/brown discoloration beginning at the seed attachment site and then moving into the roots (**Figure 2**). When they are both present, however, the roots can simply appear dark brown and shrunk, with few lateral roots and nodules.

Article continues on pg. 5

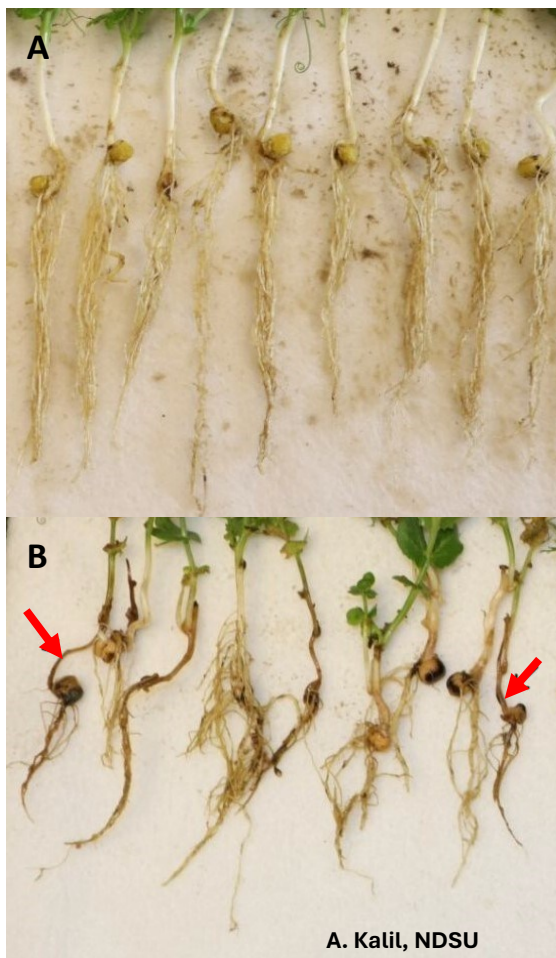


Figure 1: Healthy roots (A) compared to roots infected with *Aphanomyces euteiches* (B). Arrows indicate disease symptoms.



Figure 2: Pea roots with *Fusarium* root rot. Arrows indicate disease symptoms

Diagnosing Root Rot of Pea & Lentil cont...



Figure 3: Lentil field with root rot symptoms (black arrows).



Figure 4: Pea field with arrows indicating diseased area and healthy area.

When root disease is severe, you will see above ground symptoms such as large bare patches, stunting, wilting and plant death. Root rot affected patches in a field are frequently associated with where water accumulates or travels (**Figure 3**). This is likely why it is so frequently confused with water stress or compaction. To determine if root rot is the cause of these symptoms, dig up plants within the diseased area and healthy area to compare the roots (**Figure 4**). If the roots in the affected patch appear white and healthy, then root rot is unlikely. If however the roots in the diseased patch are discolored compared to the healthy area, then root rot should be considered and confirmed via laboratory diagnosis (**Figure 5**).

Laboratory diagnosis of root rot is important because multiple pathogens can cause disease, and the management tactics may differ based on what pathogen is present. Culturing is a method by which diseased roots are placed on fungal growth media, the pathogen grows out of the root and then is identified via microscopy. Root samples can be submitted to the Montana State University or the North Dakota State University Plant Diagnostic labs for diagnosis via this method. There is also a new laboratory test which can evaluate soil and plants for *Fusarium avenaceum*, *Fusarium oxysporum* and *Aphanomyces euteiches* (PRR1-Q) available from the National Agriculture Genotyping Center located in Fargo, ND. This is a DNA based approach that can determine how

much of each pathogen is present in a sample based on the number of copies of a DNA sequence specific to those organisms. It is highly sensitive, and may be better able to detect *Aphanomyces* compared to traditional culturing methods. To learn more about this new test visit the NAGC's website: <https://genotypingcenter.com/services/pulse-crops/>

If your field tests positive for *Aphanomyces*, then it is important to extend your crop rotation. A crop rotation study conducted in North Dakota has found that by combining a seed applied fungicide, with early planting and a 6 year crop rotation, economically viable yields can still be obtained when this pathogen is present. To learn more about managing root rot visit <https://pulsecropsipm.org/news/>

Figure 5: Panel A shows from left to right: highly diseased, moderately diseased and most healthy peas collected from the diseased and healthy areas in the field shown in Figure 4. Panel B shows the damaged stem and roots from the most diseased peas in panel A.





MONTANA PULSE CROPS

"A LEADER IN PRODUCTION, QUALITY AND INNOVATION"

The end of September I took a trip to beautiful Banff for the Pulse and Specialty Crops Convention(PSCC). This was my first trade show for Montana Pulse Crops so lots of prep, planning, and anticipation. As you can see Banff is not a bad place to spend a couple of days!

PSCC is a world-class event and the largest of its kind in North America. Hosted by the Canadian Pulse and Special Crops Trade Association, PSCC brings together hundreds of industry leaders, exporters and buyers from around the globe to network, discuss industry-wide challenges and grow their businesses. Because the Montana Pulse Crop Committee has tasked me with researching and evaluating Canadian Companies who are purchasing Montana commodity and NOT contributing to the Montana pulse assessment, I decided this would be a great place to meet & greet with those companies.

Not only was the trade show a huge success where I made over 40 contacts, 2 of which are currently purchasing Montana commodity and not contributing to the assessment. I was also able to attend some of the conference sessions which gave me more perspective and knowledge on the global outlook of pulse crops.

On the following page I have listed a handful of the companies I was able to create contact with. Ninety percent of these contacts being interested in the pulse industry; buying from processors, selling a service or product to processors, less than 10% of the contacts I made were interested in purchasing directly from growers. If you want the full list of contacts or have more questions regarding my trip to the PSCC. Please email or call me directly.

-Liz Edvundsen

**"INVEST IN AND DELIVER SUPPORT FOR MARKETING,
RESEARCH, EDUCATION, AND POLICY DEVELOPMENT
PROGRAMMING THAT IMPROVES RETURN ON INVESTMENT
FOR THE PULSE PRODUCERS OF MONTANA."**

**406.438.7570
PULSE@MGGA.ORG**



Pulse and Special Crops Convention Contacts Made

Industry Needs

- **AMVT Optical Sorters & More**
 - Chris Hendrickson 431.541.7275 or chris.hendrickson@amvt.net
- **BW Flexible Systems-automated packaging machines**
 - Steve Shellenbaum 612.782.1200 or bwflexiblesystems.com
- **Centrifuges Unlimited Inc**
 - Mark Fawcett 403.404.9024 or mark@centrifuges.net
- **GPS Corporate Foreign Exchange**
 - Jared Burns 613.854.9177 or jburns@gpsfx.com
- **Manitoulin Global Forwarding**
 - Alice Gray 604.209.9641 or agray@mgfgroup.com
- **MGX My Grain Exchange-online open market grain auction**
 - Luke Derkson 306.244.1124 or luke@mygrainexchange.com
- **Ray-Mont Logistics**
 - Bryan Paskewicz 219.8995.9775 or bryan.paskewicz@ray-mont.com
- **SEARATES by DP World-Logistics**
 - Artem Brezghin 604.813.2130 artem.b@searates.com
 - Amit Sharma 604.828.4358 amit.s@searates.com
- **Symach Barry-Whemiller Shipping and Packaging**
 - Marco Maljaars 612.760.8864 or marco.maljaars@bwpackagingsystems.com
- **Trade Credit Insurance-AU Group Canada**
 - Carl Pickett 437.217.2469 pickett@au-group.com
- **VeriGrain-Accurate Grain Analysis**
 - Ken Jackson 306.717.6414 or kjackson@verigrain.com
- **Western Freight Solutions**
 - Brianne Csuk 431.374.8972 or bcsuk@westernfreightsolutions.ca
- **Windmill Consulting & Processing Equipment**
 - Helen Jackson 778.878.7344 or windmillconsulting@shaw.ca

PULSE CROP BUYERS (DRY PEAS, LENTILS, CHICKPEAS & MORE)

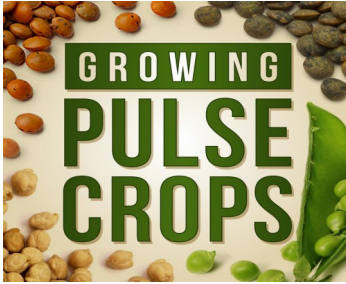
- **Kuehne & Nagel**
 - Chaimaa Belfrouh 403.835.7179 or chaimaa.belfrouh@kuehne-nagel.com
- **Seed One**
 - Abbas Amiri 647.937.9766 or abbas@seedone.ca
- **Sinamco Trading Inc.**
 - Moiz Akhtar 612.801.5048 or moiz@sinamcotrading.com
- **WestAg Solutions**
 - Tanvir Zaidi 416.471.8834 or tanvier@westagsolutions.com
- **PR Consultants Limited**
 - Irene Zhou IreneZ@prcon.com
- **CCIC Group**
 - Angela Deng 604.278.0790 ext 221 or dengw@ccicca.com
- **Phyto Organix**
 - Drew Sharp 403.828.6031 or dsharo@phytoorganixfoods.com
- **ZSP International Trade Company**
 - Sam Huo 267.241.4188 or import@zhongshwhidatrade.com
- **Yu Huang**
 - Sally Chen sally.chen@xmyuhuang.cn
- **Johnston's Connected**
 - Benaud Sivam 844.324.7778 or benaud@johnstonsconnected.com
- **DG Global**
 - Juan Rico 647.297.5743 or jrico@dgglobal.ca
- **Mitsui & Co Canada LTD**
 - Hanbeul Park 604.331.3164 or ha.park@mitsui.com



Growing Pulse Crops Podcast Feature Episode: The Diverse Opportunities in Pulse Crops with Steve Tucker & Dr. Harveson

[Season 4 | Episode 14 \(Published Oct. 4, 2023\)](#)

Partial show notes by: Tim Hammerich



"In this episode, we meet Steve Tucker who farms near Venango, Nebraska and explore the diverse crop varieties he plants on his operation and his motivation behind their selection. We also visit with plant pathologist Dr. Bob Harveson from the University of Nebraska and explore his involvement in pulse crop production and what he sees as the future of the industry. For more information on ascochyta specifically, you can refer back to some of the previous episodes we've done on the topic. [Coordinated Research Efforts to Fight Pulse Pathogens with Dr. Jenny Davidson](#) in season two; [Canadian Pulses and Foliar Disease Management](#) in season two; [Disease Management in Pulses](#) with Dr. Michael Wunsch in season one.

Your feedback is valuable!

What topics would **YOU** like featured on the Growing Pulse Crops Podcast? Please take 2 minutes to complete [this survey](#)! Bonus - Send us an e-mail after you're done and we'll send you some of our **NEW NPGA Swag**! Believe us, you're going to LOVE these new items!



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Establishing Harvest Price Key to a Successful Pulse Crop Revenue Insurance Program

The Northern Pulse Growers Association would like to remind producers the importance of price discovery during the timeframe of September 1 to November 30 in determining harvest price for the revenue insurance program.

The Pulse Crop Revenue Insurance program is referred to as a 508H program meaning that a projected price is determined by an RMA contractor. Current contractor, Watts & Associates, collects pricing data based on regional contracts during January & February of each year. RMA will then review the pricing data submitted by the contractor so the projected price can be posted by the 3rd business day in March.

Producers play an important role in providing critical harvest price data. **The harvest price is based on an average regional price by crop type from September 1 to November 30.** Harvest price data is provided to RMA by the USA Dry Pea & Lentil Council from sales/producer check off amounts. Pricing data must be reported on at least 25 days during that timeframe or there will be insufficient data to determine the harvest price.

We encourage producers to consider marketing at least a portion of their crop to assist in establishing the harvest price. For more information on how the pulse crop revenue program functions best for the industry, please listen to the [Growing Pulse Crops Podcast](#) episode interviewing Steve Junghans, RMA Billings.

'23/'24 Sponsorship Opportunities Now Available!

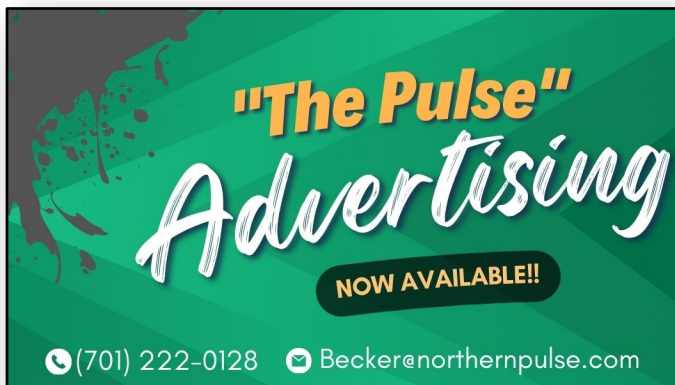
Each year, the NPGA seeks support from businesses involved in the pulse industry and encourage them to become one of our annual sponsors. With the help of our sponsors, we ensure the future success of the pulse industry in North Dakota & Montana. NPGA just released the ['23-'24 sponsorship packages](#), and they will not disappoint! We will be extending the deadline for sponsorship commitments to **November 10th**. Booth spaces are filling up fast, so be sure to return your paperwork soon! Please contact Erin Becker if you have any questions, please call the office (701) 222-0128 or e-mail Becker@northernpulse.com.

We look forward to working with you!

The Latest News from the USA Dry Pea & Lentil Council

Click the links below to view the latest issues of the "Pulse Pipeline" - the USADPLC's newsletter.

- [ANUGA Trade Show Report & Global Market Outlook](#) (published Oct. 20, 2023)
- [Philippines Buyers Mission & WSU Extrusion Lab](#) (published Oct. 13, 2023)
- [USADPLC Attends Trade Show Serving Central & South America](#) (published Oct. 6, 2023)
- [Dietary Guidelines of America & Pulses | USADPLC Trade Association Meeting](#) (published Sept. 22, 2023)
- [NASS Report: USA Pulse Production](#) (published Sept. 15, 2023)
- [New DCM Research positive for pulses!](#) (published Sept. 8, 2023)



Follow NPGA on Social Media

Did you know the NPGA is on Facebook, Pinterest, Instagram and Twitter? We would love to expand our audience, so please give us a follow and invite fellow producers and friends to follow as well. We strive to share a variety of information on each platform that is pertinent to our producers, and who knows, maybe there will be a few giveaways! Don't miss out on the latest updates from the NPGA, follow today!



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