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Testimony of Northern Canola Growers Association

The Northern Canola Growers Association, which represents the 3,300 canola growers in North Dakota that produce nearly 90 percent of canola grown in the U.S., would like to extend its support for the greenhouse facilities at the Langdon Research Extension Center (LREC) and technician support for its plant pathology program.

Canola has enjoyed tremendous success since the crop started to take off in the late 90's and acres have tripled since then. With the increase in acres, we had to focus on continuing challenges with obtaining crop protection products for use on canola in the early years, to focusing on monitoring pests and diseases of canola even more intently in the last 15 years. We rely heavily on the NDSU experts to aid the industry in addressing these challenges. We have a long-standing relationship with the Langdon Research Extension Center because it is in the heart of canola acreage in the state. Dr. Chapara has spent many hours trying to understand the implications and management of clubroot in canola. His research has involved identifying areas of the disease within the county, expanding to a state-wide survey and researching products to control this disease in canola.

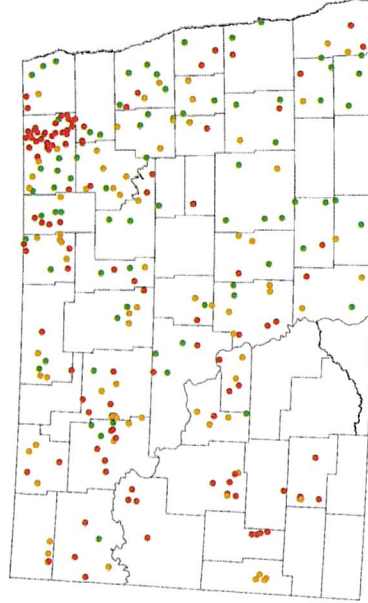
Having a good facility at the Langdon Research Extension Center will ensure this monitoring and research can continue. Canadian researchers detected clubroot over 10 years ago in Alberta and it has since found its way into North Dakota. Our soils on average have higher pH levels than Canadian soils which helps reduce the impact the disease may have on our canola crop compared to Canada. But the detection of the pathogen in the state means that we must continue to address the spread in our canola crop in the state.

Having adequate facilities at the center role ensure that the canola industry will continue to stay one step ahead of the disease as well as protect against other diseases of canola such as sclerotinia and blackleg. A healthy, committed research effort is needed to continue the growth and expansion of this important crop for North Dakota producers.

We urge your support for enhancements at the Langdon Research Extension Center. Thank you very much for your consideration.

Soil pH-Map of North Dakota-2020

Soil pH



pH

- 4 - 6.6
- 6.6 - 7
- > 7

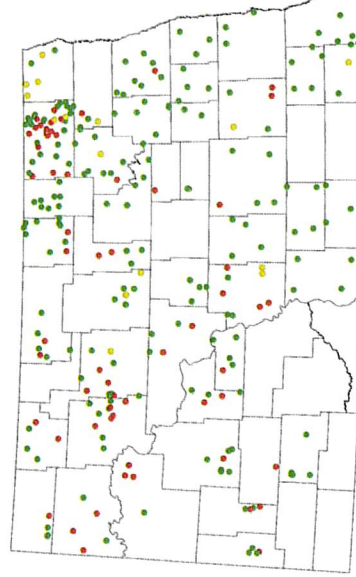
4 - 6.6 – Fields with Acidic pH
 6.6 - 7.2 – Neutral pH
 > 7.2 – Basic pH

Note: Clubroot Pathogen
Plasmodiophora brassicae
 prefers acidic soils but can be
 found in Neutral pH soils also

Drs. Chapara, Liu, Prochaska, Kalll, Jingwei, Shi, Del
 Rto, Teboh, Knodel and Honggang

Clubroot spores per gram of soil found in various counties in North Dakota

2020 Clubroot Survey in North Dakota



Spores in Soil per Gram

- 0
- 1 - 80,000
- > 80,001

Note on Spores/g of soil:
 > 80,000 will show symptoms
 under field conditions if the soil
 has acidic pH and susceptible
 canola variety

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