Love Canola? Hate Clubroot.

What is clubroot?

Clubroot disease is caused by soil-borne spores of the pathogen Plasmodiophora brassicae. These spores infect canola roots, restricting water and nutrient uptake and limiting plant growth and yield.



Spores move where soil moves.

How am Laffected?

Farmers can unknowingly have clubroot in their fields. Spores spread easily and cause symptoms when environmental conditions are conducive, susceptible hosts are present, and spore concentrations are high enough.

As spore concentration increases, so does clubroot risk:

- Increased risk to vield
- Longer (rotational) break from canola required to reduce spores to manageable levels
- Higher risk of new pathotypes being found in a field
- Fewer management options to control the disease



What can I do?

Keep spores 'low' and 'local' by growing clubroot resistance (CR) as part of a proactive, integrated prevention and management plan for all canola acres.

Keep spores OW





Crop rotation: Maintain a minimum 2-year break between canola (1-in-3 rotation).



Scout: Examine roots in every canola field during late summer/fall. Pay special attention to high-traffic and high-moisture areas. Soil testing may help identify spores before physical symptoms appear.



Grow CR: Early infestations can be missed for years while susceptible hosts multiply spores to catastrophic levels. Clubroot resistance (CR) should be grown on all canola acres as part of an integrated management strategy.



Control brassica weeds in all crops: Host weeds (like volunteer canola, stinkweed, flixweed, shepherd's purse and mustards) should be controlled early to minimize gall formation and resting spore release.



Patch management: Extend crop rotation in infested patches to reduce spore concentration. Mark the clubroot patches, remove and destroy galls, apply lime and seed to a sod-forming grass.







Biosecurity: Commit to a biosecurity plan to prevent the introduction and spread of spores on contaminated inputs and equipment. Communicate sanitation expectations with all relevant parties before field entry.



Reduce tillage: Minimize soil (and spore) movement within and between fields.



Patch management: Isolate clubroot patches to prevent spores from spreading. Mark the patches, remove and destroy galls, apply lime, and seed a sod-forming grass to anchor soil. Avoid travel through known clubroot patches.

