



Sclerotinia stem rot - Canola

Occurrence and management:

- Present across Prairies affecting broad-leafed crops/weeds
- Yield loss is largely related to the extent of disease development in lower stem and main branch tissues
- Difficult to manage and to forecast risk and fungicide need.
 - Use available risk assessment tools

Symptoms occur on:

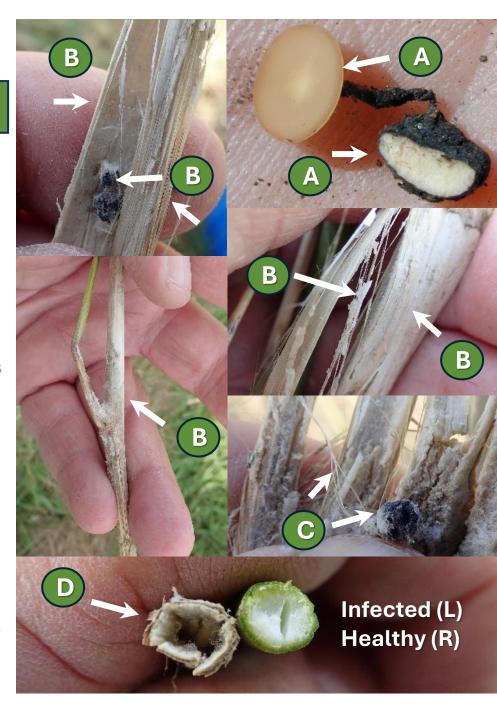
- Leaves, leaf axils/bases/petioles, stems, branches, & pods
- Infection requires petals as a food source

Initial symptoms:

- Occur after flowering starts
- Start out as water-soaked areas where infected petals had adhered to leaf and associated tissues

Mature Symptoms:

- Bleached whitish/light grey areas that dry and become brittle and shred/shatter easily (B-C)
- Pith tissue is destroyed, leaving affected stems hollow (D)
- Eventually hard black structures (sclerotia) form within or on infected tissues. Apothecia (golf tee shaped structures) produced from sclerotia (A, B, C)
- Will cause increased lodging











Sclerotinia stem rot of canola: Management strategies

Thank you to the PCDMN Phase 2 **Funders**



'Resistant" varieties*

Foliar

fungicide**

*Continual improvements are being made, but current varieties listed as "R" may still need a fungicide when stem rot risk is moderate to high

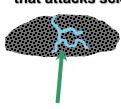
**Use risk assessment tools to determine the need to spray and the most appropriate timing



Broad-leafed volunteer/weed control



Soil application of the Contans® biocontrol fungus that attacks sclerotia***



Contans® fungus attacking a sclerotial body (sclerotia)

***Limited use currently. May need more widespread adoption to manage spores coming from sclerotia/ apothecia in adjacent fields



























