

Diseases in Carinata

- Face same disease risk as other field crops.
- Wet mild winter weather patterns.
- Host range of potentially damaging diseases overlaps with other crops and weeds
 - Bridge hosts for *Sclerotinia sclerotiorum*
 - * Peanut
 - * Soybean
 - Foliar leaf spot and rachis blight diseases
 - * Wild radish, canola, and Cole vegetables.
 - Turnip Mosaic
 - * Wild radish, canola, and Cole vegetables.

Sclerotinia Stem rot

- Sclerotinia sclerotiorum
- Hosts include most wild, oilseed, forage, vegetable brassica.
- Host range 75 families in 278 genera and 408+ species.
- Frequent showers and mild temperatures favor stem rot onset and development.
- 40% incidence with 15% yield reduction in FL carinata trial.
- In Canada, 80 to 90% incidence and 11 to 15% yield loss in canola.







Sclerotinia Stem rot

Control Measures

- Resistant varieties.
- Rotation with non-host crops.
 - avoid S. sclerotiorum
 - sclerotia viable for 5
 years, so rotation value limited.
- Deep tillage.
- Fungicides.



Alternaria Black Spot and Leaf Spot

- Alternaria brassicae
- Hosts oilseed, forage, vegetable brassica along with wild and weedy crucifers.
- Significant yield loss in canola, rape, and mustard.
- Minor issues in carinata.
- Control
 - resistance
 - rotation





Black Leg

- Phoma ligam
- Hosts canola, rape, turnip, cabbage
- B genome carinata, leaf and black mustard are resistant.
- Control
 - resistant varieties
 - deep tillage
 - fungicides







Turnip Mosaic in Carinata

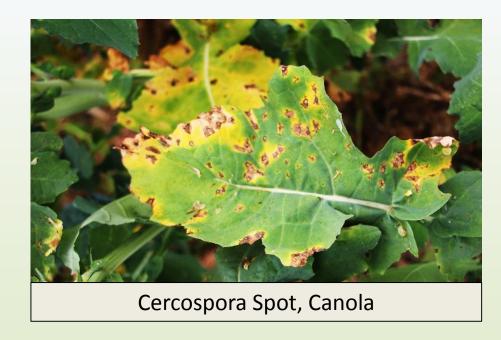




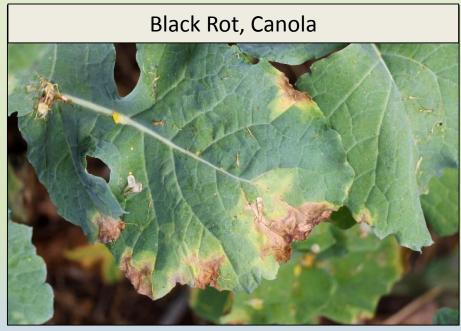




Other Potential Disease Issues

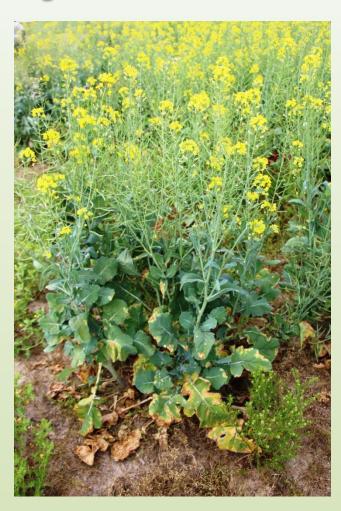






Summary

- Sclerotinia stem rot is a threat to carinata profitability.
- Control measures for stem rot will help manage other diseases.
- There will be surprises.



Black Rot on Canola