BLACKLEG DISEASE CYCLE

Leptosphaeria maculans

ADAMA

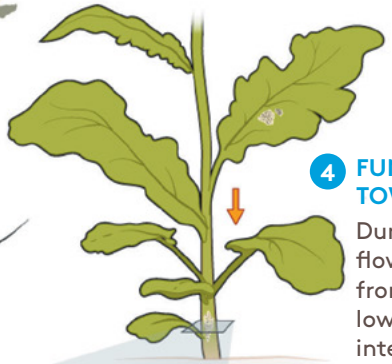
2 PRIMARY INFECTION

Cotyledons and young leaves exhibit lesions with pycnidia.

See A below.

3 SECONDARY INFECTION

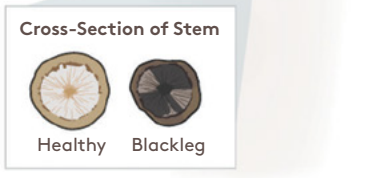
The pycnidia release pynidiospores which spread disease to other leaves and plants via rain Splash and wind. Secondary infection has less impact on blackleg severity.



4 FUNGAL GROWTH TOWARD STEM

During mid-season flowering, infection from cotyledons/ lower leaves spreads internally to the stem base.

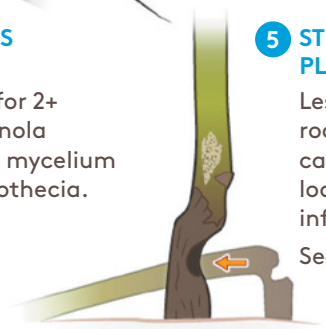
See B below.



5 STEM CANKERS AND PLANT LODGING

Lesions can cause root and stem cankers which lead to lodging under severe infection.

See C below.



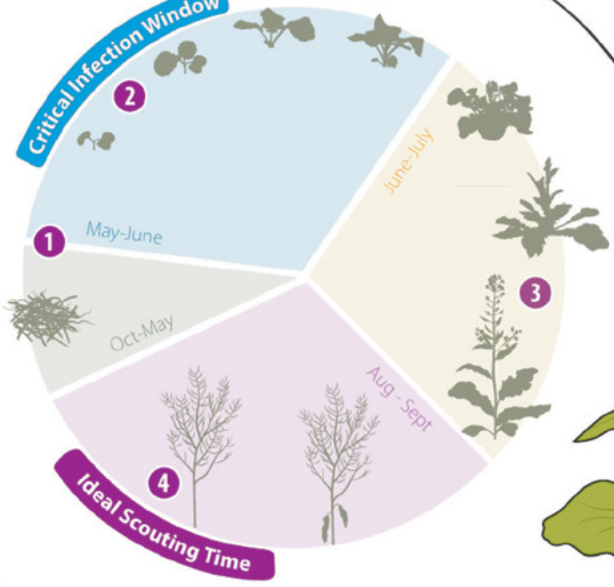
6 BLACKLEG SURVIVES ON RESIDUE

Fungus overwinters for 2+ years on infected canola stubble, primarily as mycelium pycnidia, and pseudothecia.

See D below.

Crop rotation allows residue to decompose, reducing the inoculum available to infect the next crop.

2+ years

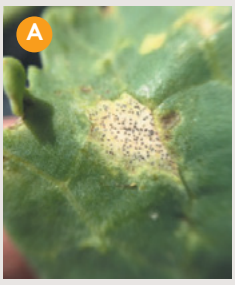


SCOUTING

The main blackleg disease scouting periods are:

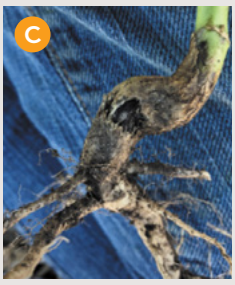
1. prior to planting
2. cotyledon to two-leaf stage
3. flowering stage
4. ripening stage to post-harvest

SYMPTOMS OF BLACKLEG DISEASE IN CANOLA PLANTS:



Early stages present as lesions with pycnidia (black specks) on the leaves.

The stem displays varying degrees of black, as seen in cross-section.



Late stages present with root and stem cankering (shrunken, pinched areas).

Pseudothecia and pycnidia can be seen on old canola stubble.

FUNGICIDES
FOR CONTROL OF BLACKLEG IN CANOLA

BUMPER® 432 EC

Low VOC
FORMULATION TECHNOLOGY

CLICK HERE FOR FULL PRODUCT DETAILS.

GROUP 3

Active Ingredient:
Propiconazole 432 g/L = EC

Application Rates and Acres Treated:
Rate: 60 – 120 ml/ac
Acres Treated: 40 – 80 ac/jug

Packaging:
Case: 2 × 4.8 L jugs

Water Volume:
Ground: 80 L/ac (20 US gal/ac)
Aerial: 16 – 20 L/ac (4 – 5 US gal/ac)

Rainfastness:
1 hour

REPLACES	Tilt, Pivot, Fitness
CROP STAGING (NO TANK MIX)	Rosette stage, between 2nd true leaf and bolting.
KEY PESTS CONTROLLED	Blackleg
PEST STAGING	N/A
TANK MIX OPTIONS	SILENCER® 120 EC or ZIVATA™
RE-ENTRY PERIOD	24 hours
PRE-HARVEST INTERVAL	60 days
ADDITIONAL INFO	BUMPER® 432 EC will control blackleg and enhance yield potential during the early stages of canola growth. The disease may reappear later in the season, but with minimal effect on yield.

MAXENTIS®

POWERED BY
Asorbital®
FORMULATION TECHNOLOGY

CLICK HERE FOR FULL PRODUCT DETAILS.

GROUP 3 & 11

Active Ingredient:
Azoxystrobin 120 g/L + Prothioconazole 90 g/L = EC

Application Rates and Acres Treated:
Canola Rate: 253 ml/ac
Acres Treated: 33 ac/jug; 467 ac/drum

Packaging:
Case: 2 × 8.45 L jugs
Drum: 118.1 L

Water Volume:
Ground: 40 L/ac (10 US gal/ac)
Aerial: 20 L/ac (5 US gal/ac)

Rainfastness:
Avoid applying when rain is forecast.

REPLACES	Nexicor®
CROP STAGING (NO TANK MIX)	Early application required, 2-6 leaf stage.
KEY PESTS CONTROLLED	Blackleg
PEST STAGING	N/A
TANK MIX OPTIONS	Talk to your local area business manager.
RE-ENTRY PERIOD	24 hours
PRE-HARVEST INTERVAL	36 days
ADDITIONAL INFO	Early application required 2-6 leaf. Based on the Canola Council recommendation early application of fungicide is required for best results. Infection prior to the 2 leaf stage is most detrimental.

2025-05