

Canola and Mustard

Xanthomonas Leaf Spot

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Identification and Life Cycle

Xanthomonas leaf spot is caused by the bacterium *Xanthomonas campestris* pv. *armoraciae*. Little is known about the disease cycle, but other plant pathogenic xanthomonads are known to be disseminated by splashing rain and irrigation water, workers, equipment, and aerosols. Xanthomonads tend to survive poorly in soil, and are usually found in association with infested crop debris, contaminated seed, and weed hosts.

Plant Response and Damage

Xanthomonas leaf spot causes light brown spots on foliage, and apparently reduces the photosynthetic area of infected plants. The disease appears to be of little concern.

Management Approaches

Biological Control

No biological control strategies have been developed for Xanthomonas leaf spot.

Cultural Control

No cultural controls have been reported for Xanthomonas leaf spot. However, management strategies common for other diseases caused by xanthomonads include crop rotation to non-hosts, thorough incorporation of plant debris, weed control in and around fields, and furrow irrigation from pathogen-free sources of water such as wells.

Chemical Control

Copper bactericides may provide some Xanthomonas leaf spot suppression if applied preventatively and regularly.

Product List for Xanthomonas Leaf Spot:

Pesticide	Rate per Acre	Application Frequency	Remarks
Copper fungicides: not all formulations listed			
Champ DP	0.33-0.66 lb	7 days	
Cuprofix Disperss	1.5-2.5 lb	7-10 days	Can cause phytotoxicity
Kocide 2000	0.75-1.5 lbs	7-10 days	
Nordox	1.0-3.0 lb	7-10 days	
Nu Cop 50 WP	1.5-2.0 lb	7-10 days	

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