

Aphanomyces Root Rot

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Following several wet growing seasons on the Canadian Prairies, root rot severity in field pea and lentil exploded in 2012–2013, often associated with the oomycete pathogen *Aphanomyces euteiches*. Surveys from 2014–2022 revealed that *A. euteiches* was distributed across the Prairie region. *Fusarium* species such as *F. avenaceum* and *F. redolens* were also frequently isolated from diseased pea roots. Surveys showed that root rot is present in every pea and lentil field in the region, and that root rot incidence and severity increased in wet years and decreased in dry years. This presentation will delve into the current research on the main culprit, *Aphanomyces euteiches*, and the role its many accomplices (biotic and abiotic) play in driving disease in the field. The challenges and lessons learned from field trials tell the complicated story of this disease complex and ongoing field research into managing the disease will be presented.