

Canola Pathology Workshop 2017

Wrap Up & Issues

2016: Survey of diseases

- ~ Wet throughout growing season
- ~ Mainly Group A varieties sown; 2017 high canola acreage predicted
- ~ **Blackleg:** less canopy infection than predicted; pod infection
 - . Group D efficacy improving on Lower Eyre Peninsula
- ~ **Sclerotinia:** disease but controlled by foliar spray
- ~ **Other diseases:** White leaf spot,
- ~ **Issues**
- ~ Better communication of blackleg ratings: NVT and GRDC
- ~ Challenges in identifying pathogens
- ~ Effects of white leaf spot and other pathogens on yield?

Basic research projects

- ~ CRISPR used to mutate *L.maculans* genes:
 - . GM technology?
- ~ Mapping & identifying resistance genes
 - . Alleles Rlm2 and LepR3
 - . Deletions/insertions in canola genome
- ~ Experiment deploying resistance genes in field
 - . Implications for rotating Resistance groups
 - . Monitoring fungal populations for virulence frequencies
 - . Frequency virulence required for resistance breakdown
- ~ Developing decision support for canola disease
 - . Integrated model to deal with blackleg & sclerotinia

Blackleg Issues

- ~ National Canola Pathology Project strong links to Canola Agronomy Project
- ~ Relationship of disease to optimal flowering period
- ~ Lowering level of pod infection by manipulating time of flowering –implications trade with China
- ~ Effects of changing tillage practice: ascospores released later from standing stubble Vs lying stubble
- ~ High acreage canola in 2017 – mainly Group A
- ~ Complexity of blackleg management guide

Fungicides

- ~ Wet year; many spores on seedlings
- ~ Prosaro at 8-10 leaf stage - increased yields
- ~ In planta experiments on jockey-tolerant isolates showed no cross reactivity with other DMIs
- ~ High fungicide use predicted in 2017
 - . Prosaro with MS-MR varieties?
 - . increased selection pressure on pathogen
- ~ More MoA fungicides coming
- ~ Labelling issues; 'benchmark' new chemistries
- ~ Look at particular hot spots paddocks for fungicide tolerant isolates?

Actions

- ~ Better communication of blackleg ratings: NVT and GRDC
- ~ Fungicides: any labelling issues?