

Summary

- Rainfall leading up to and during flowering drives sclerotinia and resulting leaf wetness
- Long leaf wetness periods are critical for infection to occur
- Canola can quickly build up levels of sclerotia
- Commencement of flowering is a major driver of disease development
- Sclerotinia is slow to develop compared to other diseases
- Petal infestation can be found in every canola crop
- Timing of application is critical for foliar fungicides





The Sclerotinia myths

- Sclerotinia is a warm weather disease
 BUSTED Disease is driven by moisture
- Every rainfall event during flowering is a risk
 BUSTED Only certain rainfall events are a disease risk
- Petal testing is a reliable predictor of disease
 BUSTED Levels of petal infestation do not correlate with stem infection

NSW Department of Primary Industrie

Daysdale 2016



















Site	Infection type	% Yield loss per plant				
		2014	2015	2016	2017	
Howlong	None	0	0	0	0	
Howlong	Main stem	72	82	36	70	
Howlong	Branch	19	20	6	14	
Morven	None	0	0	0	0	
Morven	Main stem	63	54	94	76	
Morven	Branch	18	9	23	12	

Acknowledgements

GRDC

- Various research agencies (NSW DPI, SARDI, DPIRD, MU)
- Andrew Ware, Ravjit Khangura, Susie Sprague, Barbara Howlett (National Canola Pathology Program)

Department of Primary Industries











Department of Primary Industries and Regional Development				Results	from 20				
 Ciara had 3 opportunistic canola sclerotinia trials +/- fungicide at 50% bloom near Geraldton. 2 were harvested, one had significant yield response of 0.2 t/ha (untreated 1.5 t/ha). 									
Average of treatments									
Fungicide treatment at 50% bloom	Primary stem has lesion (%)	Lateral branch is dead or dying (%)	Primary stem dead or dying (%)	Lodged (%)	Total Disease (%)				
Nil	3	10	40	3	56				
Prosaro @ 450mL/ha	2	9	28	0	38				
			-						















Primary Industries and Regional Development

Sclerotinia future research

Determine the actual levels of ground infection and associated yield loss in commercial crops

- Undertake canola crop surveillance to determine incidence and severity of ground infection
- Sample crops with a range of infection types to determine the level of yield loss









