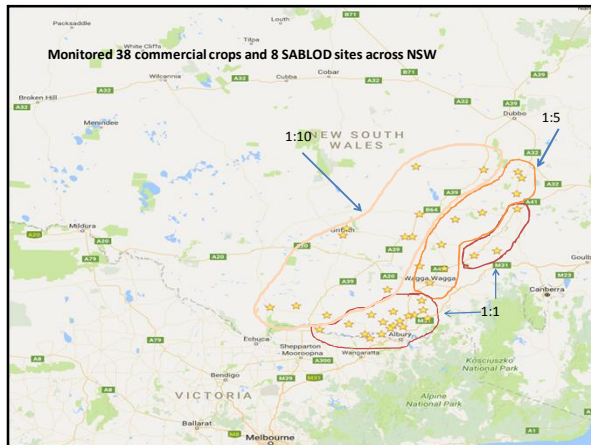


## Sclerotinia Update 2016

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### Environmental observations 2016

- “ New South Wales and Victoria:
  - . Above average rainfall from May to September
  - . Visible apothecia development in early July
  - . Emerged petals were infested with ascospores
- “ South Australia:
  - . Above average rainfall in June and July
  - . Extremely wet September and October
- “ Western Australia:
  - . Above average rainfall throughout the state
  - . Extremely wet growing season conditions from May to October



### NSW

- “ Disease was widespread across NSW
- “ Sclerotinia was present in low disease pressure and lower rainfall districts
- “ Damaging levels of infection in high disease pressure districts
- “ Average severity up to 10%
- “ Effective application of foliar fungicide keep disease levels low

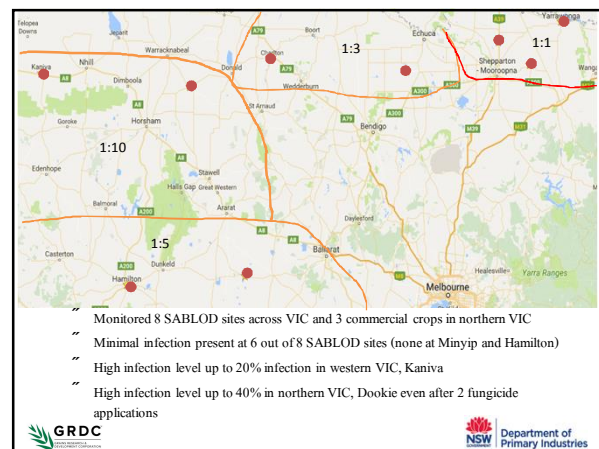
Date	No. of week	Cowdella	Lockhart 1	Lockhart 2	Alma Park 1	Alma Park 2	Morven
3/7- 10/7	1						88
10/7- 17/7	2						95
17/7- 24/7	3	100	100	98	100	100	100
24/7- 31/7	4	100	100	98	100	100	100
31/7- 7/8	5	100	100	98	100	100	100
7/8- 14/8	6	100	78	92	100	72	54
14/8- 21/8	7	44	58	60	98	78	54
21/8- 28/8	8	14	54	60	90	60	98
28/8- 4/9	9	36	100	60	100	74	54
4/9- 11/9	10	54	54	58	86	70	74
11/9- 18/9	11	70	50	50	84	76	50
18/9- 25/9	12	58	76	40	76	69	54
25/9- 2/10	13	48	81	2	100	44	52
2/10- 9/10	14				100	100	48
9/10- 16/10	15						28
16/10- 23/10	16						32
total rainfall during flowering		229.5	273.2	273.2	254.6	254.6	249.2
total annual rainfall		700	759.6	759.6	804.4	804.4	736.8

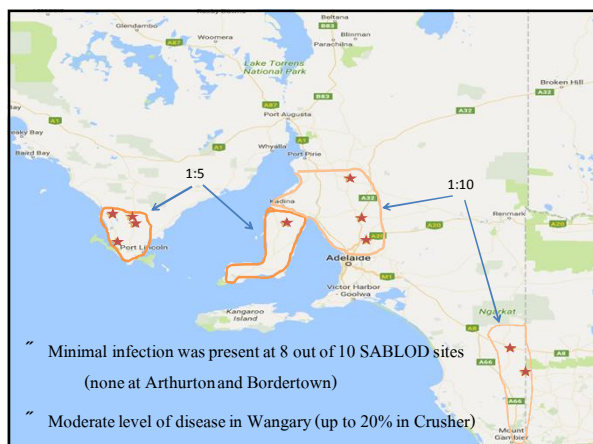
Date	No. of week	West	West	Quandilla	Griffith	Parkes	Covera
3/7- 10/7	1						
10/7- 17/7	2	64					
17/7- 24/7	3	54					
24/7- 31/7	4	44					
31/7- 7/8	5	58					
7/8- 14/8	6	22					
14/8- 21/8	7	22	46	46	56		
21/8- 28/8	8	0	10	16	16		
28/8- 4/9	9	8	33	34	16	36	98
4/9- 11/9	10	4	24	4	24	46	92
11/9- 18/9	11	4	4	4	14	46	6
18/9- 25/9	12	4	4	6	36	98	2
25/9- 2/10	13	6	4	8			2
2/10- 9/10	14						0
9/10- 16/10	15						0
16/10- 23/10	16						0
total rainfall during flowering		215.3	258.2	253.9	337.3	305.8	268.9
total annual rainfall		698.6	737.6	737.6	811.3	811.3	811.3

#### Petal Test

- “ Petals collected from southern NSW and northern Victoria
- “ Disease pressures
- “ High disease pressure districts (>90%):
  - Riverina
  - South West Slopes
- “ Low disease pressure districts (<60%):
  - Central West Slopes
- “ Similar results to 2015
- “ Driving factors for infection: humidity and leaf wetness





- “ Monitored 8 SABLOD sites across VIC and 3 commercial crops in northern VIC
- “ Minimal infection present at 6 out of 8 SABLOD sites (none at Minyip and Hamilton)
- “ High infection level up to 20% infection in western VIC, Kaniva
- “ High infection level up to 40% in northern VIC, Dookie even after 2 fungicide applications





### WA

- " Monitored a total of 65 commercial crops and SABLOD sites across WA
- " Sclerotinia was widespread across all canola growing regions in WA
- " Low levels of sclerotinia infection in low rainfall zone
- " High levels of ground/basal infection in central and southern WA
- " Average severity of 9% across state
- " Low disease severity due to effective fungicide application
- " Highest yield loss of 20% in a few untreated crops

### Summary

- " Above average rainfall in 2016
- " Growing season conditions from winter and early spring are conducive for stem rot
- " Sclerotinia outbreaks were widespread in all canola growing regions
- " Source of inoculum was not a limiting factor
- " Severity was highly dependent on environmental conditions (prolonged period of humidity and leaf wetness)
- " Disease severity was minimal due to effective foliar fungicide application

### Acknowledgments

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- " Steve Marcroft – MGP
- " Andrew Ware – SARDI
- " Ravjit Khangura – DAFWA
- " Wes Amor – Bayer

