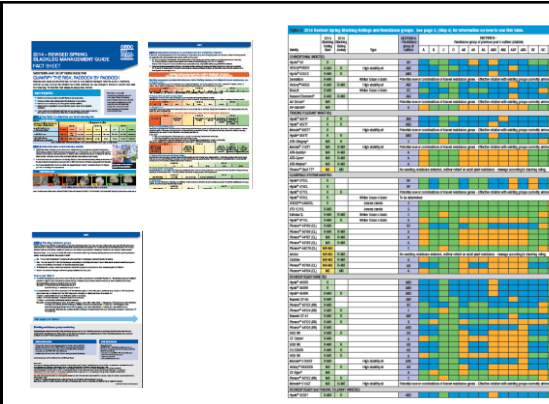



Blackleg severity across Australia

SOUTH AUSTRALIAN RESEARCH & DEVELOPMENT INSTITUTE PIRSA


Andrew Ware
Canola Pathology Workshop - 2015

2014 Blackleg Resistance Group Monitoring Sites




Field blackleg monitoring



Cultivars grown in triplicate plots
20 plants assessed per plot
(60 plants in total)

Western Australia 2014

- Seasonal Conditions
 - Break to season @ ANZAC day
 - Followed by below average winter rainfall
 - Above average spring
- Major varieties 2013 (area planted)
 - Crusher TT Group A (24%)
 - ATR Stingray Group C (19%)
 - ATR Cobbler Group B (15%)



2014 Western Australia

WA	A	B	C	D	E	F	S	
BADGINGARRA								High blackleg severity in group B.
CORRIGIN								High blackleg severity in group B.
GIBSON								High blackleg severity in groups A and B.
KATANNING								High blackleg severity in groups A and B. Moderate in group S.
KENDENUP								High blackleg severity in group B. Moderate in group S.
KIDIONUP								High blackleg severity in groups B and S.
SOUTH STIRLING								High blackleg severity in group A. Moderate in group S.
WILLIAMS								High blackleg severity in groups B and S.

- No data
- Low blackleg severity compared to national average – continue with current management techniques.
- Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
- High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

Victoria 2014

- Seasonal Conditions
 - Summer rain in the N. Mallee only
 - Warmer than normal, average – above average autumn,
 - Dry winter and spring



SARDI

2014 Victoria

VIC	A	B	C	D	E	F	S	
CHARLTON								Moderate blackleg severity in group S.
DIGGORA								High blackleg severity in groups B and S. Moderate in group A.
HAMILTON								High blackleg severity in group S. Moderate in groups B and D.
KANIVA								High blackleg severity in groups B and S.
LAKE BOLAC								High blackleg severity in group A. Moderate in group B.
MINYIP								Moderate blackleg severity in group S.
WUNGHNU								High blackleg severity in groups B and S.
YARRAWONGA								High blackleg severity in groups B and S. Moderate in group A.

No data
Low blackleg severity compared to national average – continue with current management techniques.
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

NSW 2014

- Seasonal Conditions
 - Good summer rains
 - Early Break – most NVT sites planted mid April
 - Above average autumn rainfall
 - Dry-ish winter
 - Dry Spring
- Major variety 2014 (tonnes delivered)
 - ATR Gem Group A – 80% of grain delivered



SARDI

2014 New South Wales

NSW	A	B	C	D	E	F	S	
BECKOM								High blackleg severity in groups A,B and S.
BELLATA								Low blackleg severity in all groups.
COOTAMUNDRA								High blackleg severity in group S. Moderate in groups A and B.
CUDAL								High blackleg severity in groups B and S. Moderate in group A.
GROGERY								High blackleg severity in groups A, B and S.
GOULBURN								Moderate blackleg severity in group A.
GREENETHORPE								High blackleg severity in group S.
GREENFELL								High blackleg severity in groups B and S. Moderate in group A.
LOCKHART								High blackleg severity in groups A, B and S.
MULLALEY								Low blackleg severity in all groups.
PARKES								High blackleg severity in groups B and S.
TAMWORTH								High blackleg severity in groups A and S. Moderate in group B.
WAGGA WAGGA								High blackleg severity in groups B and S. Moderate in group A.

No data
Low blackleg severity compared to national average – continue with current management techniques.
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

South Australia 2014

- Seasonal Conditions
 - Good summer rains
 - Early Break – most NVT sites planted late April
 - Above average autumn rainfall
 - Average winter rainfall
 - Dry Spring
- Breakdown of resistance to Hyola 50 in 2012.



SARDI

2014 South Australia

SA	A	B	C	D	E	F	S	
ARTHURTON								High blackleg severity in group S.
BORDERTOWN								High blackleg severity in groups B and S.
CUMMINS								High blackleg severity in groups D and S.
FRANCES								High blackleg severity in group S. Moderate in groups B and D.
MT HOPE								High blackleg severity in group B. Moderate in group D.
RIVERTON								High blackleg severity in group S. Moderate in groups A and D.
SPALDING								Moderate blackleg severity in groups B and S.
TURRETFIELD								High blackleg severity in groups D and S. Moderate in groups A and B.
WANILLA								High blackleg severity in groups A, B, D and S.
YEELANNA								High blackleg severity in groups B and D.

No data
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

Rotating Blackleg Groups

Is it successful in the field?

Groups	ATR-Stingray	AV-Garnet	ThumperTT	Success
	C	A	A,B,D?,E	
A	29	45	41	Yes
B	55	52	56	No
C	23	17	9	Yes
D	60	52	93	Yes
E	4	0	10	Yes
F	21	14	22	?
S	51	52	30	?

Cockaleechee, Lower EP, 2014

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Rotating Blackleg Groups

Is it successful in the field?



Cockaleechee, Lower EP, 2014

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Thank you

- SABL0D Team across Australia
- Farmer Co-operators

GRDC
Grains Research & Development Corporation
Your GRDC Working With You

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2013 Western Australia

WA	A	B	C	D	E	G	S	
BADGINGARRA	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
CORRIGIN	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
GIBSON	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
KATANING	Green	Yellow	Green	Green	Green	Green	Green	Moderate blackleg severity in Groups A, B and S.
KENDENUP	Green	Yellow	Green	Green	Green	Green	Green	Moderate blackleg severity in Groups B and S.
KOJONUP	Green	Green	Green	Green	Green	Green	Green	Moderate blackleg severity in Groups B and S.
S. STIRLING	Green	Green	Green	Green	Green	Green	Green	Moderate blackleg severity in Group S.
WILLIAMS	Green	Yellow	Green	Green	Green	Green	Green	Moderate blackleg severity in Groups B and S.

No data
Low blackleg severity compared to national average – continue with current management techniques.
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

2013 Victoria

VIC	A	B	C	D	E	G	S	
CHARLTON	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
DIGGORA	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
HAMILTON	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
KANIVA	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
MINYIP	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
STREATHAM	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
WUNGHNU	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in Group B. Moderate in Groups C and S
YARRAWONGA	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in Groups A, B, D and G. Moderate in Group S

No data
Low blackleg severity compared to national average – continue with current management techniques.
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

2013 New South Wales

NSW	A	B	C	D	E	G	S	
BECKOM	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A, B. Moderate in C, D.
BELLATA	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
COOTAMUNDRA	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A, B. Moderate in group S.
CUDAL	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A, B, C and D. Moderate in group S.
GEROGERY	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
GRENFELL	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in group A. Moderate in groups B and S.
LOCKHART	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A and B. Moderate in groups D and S.
MULLALEY	Green	Green	Green	Green	Green	Green	Green	Low blackleg severity in all groups.
PARKES	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A and B. Moderate in groups C and S.
WAGGA WAGGA	Red	Yellow	Green	Green	Green	Green	Green	High blackleg severity in groups A, B, C and D. Moderate in group S.

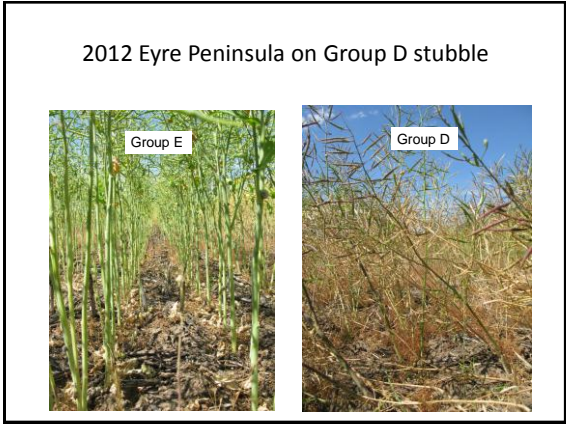
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High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.

2013 South Australia

SA	A	B	C	D	E	G	S	
ARTHURTON								Moderate blackleg severity in Group S.
BORDERTOWN								Moderate blackleg severity in Group S.
MT HOPE								High blackleg severity in Group D. Moderate in Group S.
RIVERTON								Moderate blackleg severity in Group S.
SPALDING								Moderate blackleg severity in Group S.
TURRETFIELD								High blackleg severity in group A. Moderate in Groups B and S.

2013 New South Wales

No data
Moderate blackleg severity compared to national average – Monitor crops for disease, see Blackleg management guide.
High blackleg severity compared to national average – high risk of yield loss, see Blackleg management guide.



Resistance management Boom-Bust-Recovery
Sylvestris-derived resistance

2002 2003 2005

marcroft
 GRAIN MANAGEMENT

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