

Blackleg management in canola

Summary

← Crop circumstances

Target yield (t/ha) 2.2

Grain price (t/ha) \$180

Production cost (t/ha) \$100

Canola in district (t/ha) 1%

Spore maturity risk

L M H ?

→ Padlock setup

→ Management options

A	B	Difference
Expected yield (t/ha)	Expected yield (t/ha)	Expected yield (t/ha)
Minimum 1.6	Minimum 1.6	Minimum 0
Mean 1.9	Mean 1.9	Mean 0
Maximum 2.2	Maximum 2.2	Maximum 0
Loss to blackleg (t/ha)	Loss to blackleg (t/ha)	Loss to blackleg (t/ha)
Minimum 0.12	Minimum 0.12	Minimum 0
Mean 0.25	Mean 0.25	Mean 0
Maximum 0.39	Maximum 0.39	Maximum 0
Net return (\$/ha)	Net return (\$/ha)	Net return (\$/ha)
Minimum 280	Minimum 280	Minimum 0
Mean 424	Mean 424	Mean 0
Maximum 560	Maximum 560	Maximum 0

*1 year in 10 values will be less than the minimum or more than the maximum

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Distance to 1 yr stubble (10 m) 100

Distance to 2 yr stubble (100 m) 100

2 yr stubble standing

→ Management options

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Minimum 1.6	Minimum 1.6	Minimum 0
Mean 1.9	Mean 1.9	Mean 0
Maximum 2.2	Maximum 2.2	Maximum 0
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Selected variety: DG 408 BR (MS, AC)

Seeding rate (t/ha) 2.2

AC Resistance status: Not reduced

Jockey Stayer® seed dressing

Seed treatment cost (t/ha) 100

Fulfilfil with fertiliser

Proseff® spray (t/ha) 100

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Expected yield (t/ha)	Expected yield (t/ha)	Expected yield (t/ha)
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Mean 1.9	Mean 1.9	Mean 0
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Mean 1.9	Mean 1.9	Mean 0
Maximum 2.2	Maximum 2.2	Maximum 0
Loss to blackleg (t/ha)	Loss to blackleg (t/ha)	Loss to blackleg (t/ha)
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Mean 0.25	Mean 0.25	Mean 0
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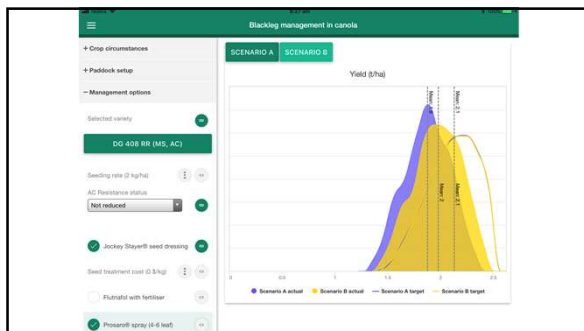
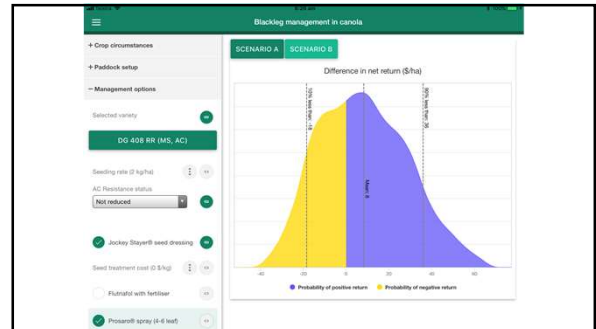
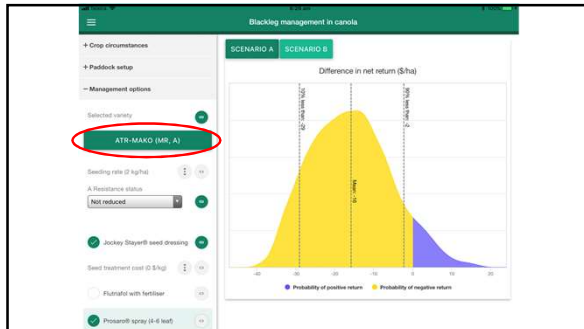
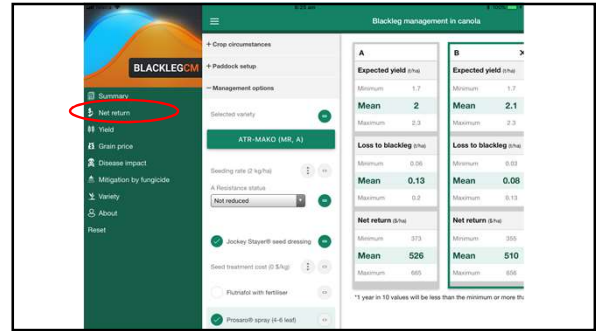
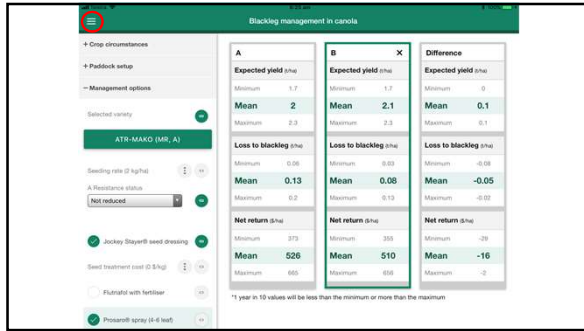
Seed treatment cost (t/ha) 100

Fulfilfil with fertiliser

Proseff® spray (t/ha) 100

A	B	Difference
Expected yield (t/ha)	Expected yield (t/ha)	Expected yield (t/ha)
Minimum 1.6	Minimum 1.7	Minimum 0
Mean 1.9	Mean 2	Mean 0.1
Maximum 2.2	Maximum 2.3	Maximum 0.2
Loss to blackleg (t/ha)	Loss to blackleg (t/ha)	Loss to blackleg (t/ha)
Minimum 0.11	Minimum 0.06	Minimum -0.14
Mean 0.25	Mean 0.15	Mean -0.1
Maximum 0.4	Maximum 0.25	Maximum -0.65
Net return (\$/ha)	Net return (\$/ha)	Net return (\$/ha)
Minimum 283	Minimum 283	Minimum -18
Mean 424	Mean 433	Mean 8
Maximum 564	Maximum 578	Maximum 37

*1 year in 10 values will be less than the minimum or more than the maximum



Variety	Resistance rating	Resistance group	Seed price (\$/kg)	Seed type	Herbicide tolerance	Endpoint myxelia	Favourite	Note
DG 408 RR	MS	AC	38	Hybrid	RR	N	*	Shorter season areas
Hyola 404RR	R1-MR	ABD	38	Hybrid	RR	N	*	New outclassed
Hyola 506RR	R	ABD	38	Hybrid	RR	N	*	Longer season areas
Nuseed QT33	R	ABDF	38	Hybrid	RR	N	*	Longer season areas
Pioneer 43Y23 RR	MR	B	38	Hybrid	RR	N	*	
Pioneer 44Y27 RR	MR	B	38	Hybrid	RR	N	*	
Pioneer 43Y25 RR	MR	BC	38	Hybrid	RR	N	*	Longer season areas
Elayer 3000 TR	MS-S	B	38	Hybrid	RT	N	*	
ATR-Bonito	MS	A	17	OP	TT	Y	*	



Sclerotinia management in canola

Spray decision: First spray, Second spray

scenario	No spray: Default		Spray		Difference	
	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)
Minimum (1:10)	1.32	1.35	1.35	1.35	0.03	0.03
Mean	1.58	1.66	1.66	1.66	0.08	0.08
Maximum (1:10)	1.82	1.9	1.9	1.9	0.13	0.13
Loss to sclerotinia (\$/ha)	0.07	0.02	0.02	0.02	-0.13	-0.13
Minimum (1:10)	0.07	0.02	0.02	0.02	-0.13	-0.13
Mean	0.16	0.08	0.08	0.08	-0.08	-0.08
Maximum (1:10)	0.24	0.12	0.12	0.12	-0.03	-0.03
Net return (\$/ha)	355.37	358.54	358.54	358.54	11.87	11.87
Minimum (1:10)	355.37	358.54	358.54	358.54	11.87	11.87
Mean	438.26	449.53	449.53	449.53	11.27	11.27
Maximum (1:10)	588.34	589.39	589.39	589.39	36.44	36.44

Sclerotinia management in canola

Spray decision: First spray, Second spray

scenario	No spray: Default		Spray		Difference	
	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)	Expected yield (\$/ha)
Minimum (1:10)	1.43	1.45	1.45	1.45	0.01	0.01
Mean	1.7	1.72	1.72	1.72	0.02	0.02
Maximum (1:10)	1.95	1.97	1.97	1.97	0.03	0.03
Loss to sclerotinia (\$/ha)	0.02	0.01	0.01	0.01	-0.03	-0.03
Minimum (1:10)	0.02	0.01	0.01	0.01	-0.03	-0.03
Mean	0.04	0.02	0.02	0.02	-0.02	-0.02
Maximum (1:10)	0.06	0.03	0.03	0.03	-0.01	-0.01
Net return (\$/ha)	358.02	354.65	354.65	354.65	-25.13	-25.13
Minimum (1:10)	358.02	354.65	354.65	354.65	-25.13	-25.13
Mean	500.84	481.78	481.78	481.78	-19.06	-19.06
Maximum (1:10)	654.5	617.29	617.29	617.29	-19.35	-19.35

#BlacklegCM

@ArtDiggie

Announcing BlacklegCM – an iPad/Android tablet app to help you manage blackleg disease in canola. #BlacklegCM @theGRDC @DPIRDbroadcast #GRDCupdates

#BlacklegCM

#BlacklegCM – Best thing ever

Key Messages

- The BlacklegCM app is free and available now from the Apple App Store or Google Play.
- The sclerotinia tool is going to be tested this season and available in 2019.
- #BlacklegCM – Best thing ever

Thank you

GRDC projects -

- UM00051: National Canola Pathogen Program including new molecular knowledge, pathogen evolution and control techniques
- DAW00228: National Pathogen Modelling and Delivery of Decision Support

#BlacklegCM – Best thing ever

www.grdc.com.au

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