



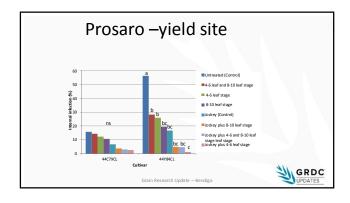


Grower scenario at end of June 2016

Grain Research

- " I am growing Group A rating MR
- I have grown group A for a number of years
- " I used Jockey / Impact-in-Furrow
- " My crop is at 8-10 leaf.
- " I have high yield potential





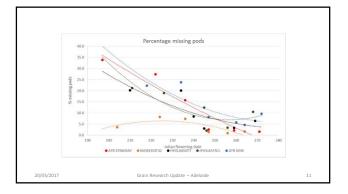


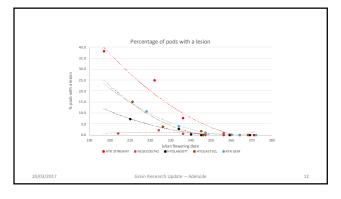
2017 Advice Anecdotal grower returns from spraying have been in 2016 were 0.3-0.8t/ha (\$150-\$400 / ha). Western District of Vic additional 1.0 -1.5t/ha on Group A, 0.5t/ha on More canola = more disease risk other Groups. Some popular Group A cultivars have fallen to MR-MS But blackleg will be driven by season conditions. $\label{eq:prosaro} Prosaro \ advice- \ In \ \text{\ \ } wormal+growing \ season \ if \ you \ follow \ the \ Blackleg$ Monitor disease levels dong just spray because it worked in 2016. Management guide Prosaro is not required. Based on 2016 observations if you have potential yields above 2.5t/ha If your Group A has become a 2017 advice Prosaro is a good option. Blackleg rating
500m isolation
Seed / fertiliser treatment MR-MS Change groups 1. Agronomist 1 +Glad we didnq spray Prosaro our growers got 3t/ha+ Same group but higher rating Jockey+Impact Increase isolation 2. 3. Change groups if required Make decision on foliar fungicides during the season Agronomist 2 % Glad we sprayed, it only went 3t/ha in the unsprayed strips+ 4. 5. Agronomist 3 Glad we listened to you, we sprayed Prosaro for the first time in 2016 (6500ha) and made an additional 2.5m. 4. 5. Foliar fungicides 20/03/2017 Grain Research Update – Adelaid Grain Research Update – Bendigo

Crown canker When to spray?	spray
⁷ Not required normally.	ATR ST
4-6 leaf is recommendation, use if doing something naughty.	4-6
	10
Up to 10th leaf is good and gives agronomists time to measure	200 1st
in-season blackleg severity and get a idea on potential yields.	301
strategic.	All ATR G
Strategic.	Un
	4-6
Upper Canopy Infection	10
"Best advice is to plan flowering time.	1st
	301 All
"Best spraving time = 30% flower??? (need more data)	ATR V

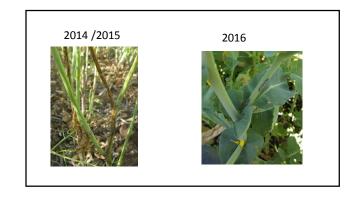
- % flower??? (n
- enables penetration into canopy, protects stems and branches.
- Protect early flowers which are most vulnerable, later flowers are further past the most dangerous infection time.
- Already registered for sclero . 2 diseases for the price on one. We need a lot more data to verify spraying decisions for Upper Canopy Infection. Grain Research Update Adelaide 20/03/2017

Cultivar & spray timing	Main ster infection 0-4		% Missing pods		% of pods with a lesion		alants clerotinia ion	Yield % of untrea		
ATR STINGRAY										
Untreated	0.13		25.8		22.5	25		100		
4-6 Leaf	0.03	a 0.58	19.8	ab	22.5	22	а	128	bc	
10 cm elongation	0.08	a 0.25	18.8		17.5	27		132		
20cm elongation	0.05		4.0		19.0	30		137		
1st flower	0.10	a 0.20	7.8	с	17.0		ab	135	b	
30% flower	0.08		7.8		26.5		b	152		
All sprays	0.05	a 0.30	8.5	с	20.5	8	b	167	а	
ATR GEM										
Untreated	0.35		18.3		2.0	38		100		
4-6 Leaf	0.30	ab 0.38	14.6	а	5.0	28	а	141	ab	
10 cm elongation	0.13		13.6		4.0	25		127		
20cm elongation	0.25	ab 0.43	13.8	а	3.0	33	а	165	ab	
1st flower	0.33		3.5		3.0		ab	147		
30% flower	0.28	ab 0.28	6.7	b	1.0	8	b	139	ab	
All sprays	0.03	b 0.15	6.4	b	2.0	3	b	177	а	
ATR WAHOO										
Untreated	0.20	ab 0.18	16.3	ab	1.5	25	а	100	ь	
4-6 Leaf	0.15	b 0.25	10.6	b	1.5	15	ab	127	b	
10 cm elongation	0.08	b 0.30	19.8	а	1.5	18	ab	108	b	
20cm elongation	0.05	b 0.33	11.8	b	0.0	22	а	161	ab	
1st flower	0.33	a 0.20	19.0	а	0.5	7	b	128	b	
30% flower	0.15	b 0.28	5.7	с	3.0	7	b	168	а	114
All sprays	0.00	b 0.08	2.4	d	1.0	3	b	175	a	GR
										UPDA





	Treatments – All ATR Stingray								
Time of sowing	Untreated	20-30% flower	End Flower	50% flower, end	With rain during	with rain during podding			
13 Apr	55b	39c	8f	Oh	71a	-			
27 Apr	40c	42c	17e	10f	56b				
11 May	16e	11e	9f	Oh		25d			
25 May	4g	8f	1g	Oh	-	5fg			





	evere in 2016? ie more severe in 2014							
2010	Windrowing	1 month post harvest	Windrowing	1 month post harvest	Windrowing	1 month post harvest		
	% Crown canker Internal infection	% Crown canker Internal infection	Branch Infection 0-4	Branch Infection 0-4	Stem Infection 0-4	Stem Infection 0-4		
untreated	5.59	11.82	0.38	2.18	0.06	0.73		