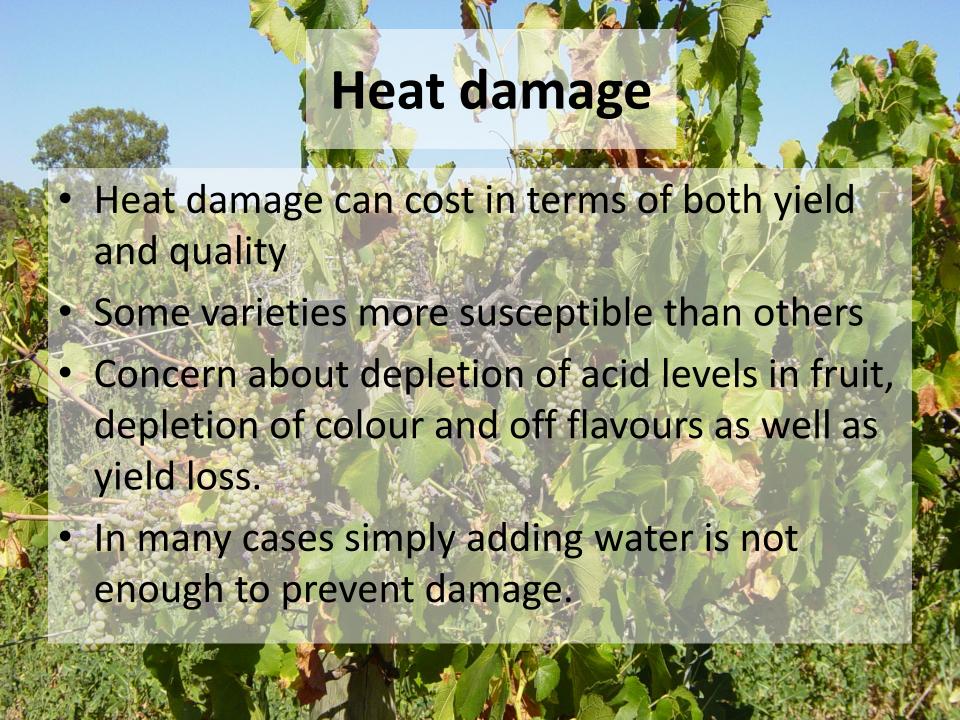


Background

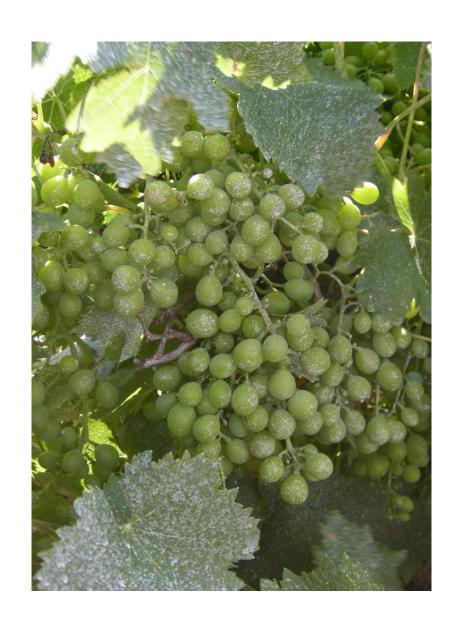
- Heatwaves have long been a problem in the Riverland region
- In the past, many growers relied on full-cover irrigation to lower canopy temperatures and maintain soil profiles to reduce crop loss.
- More recent widespread adoption of drip irrigation means few growers still have this ability.
- Sunscreens (PFT sprays) have added another tool to help combat heat effects resulting in yield and quality loss.
- Recent work by AWRI showing no ill effects of the kaolin —
 based products has given many wine companies confidence
 in allowing their use.

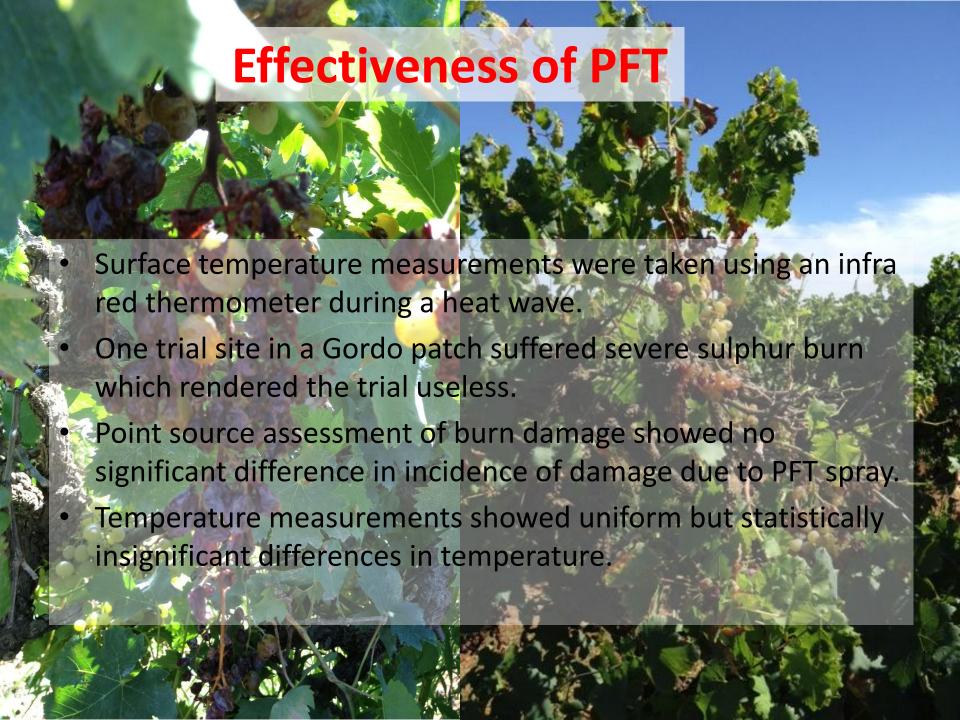




Application

- Currently there are some difficulties with application of the PFT to the berry surface – especially Gordo berries.
- Initial application is supposed to allow subsequent applications to adhere better.
- Some more work may be needed with adjuvant types and rates
- Suspension of the kaolin product rapidly settles out if agitation is inadequate.

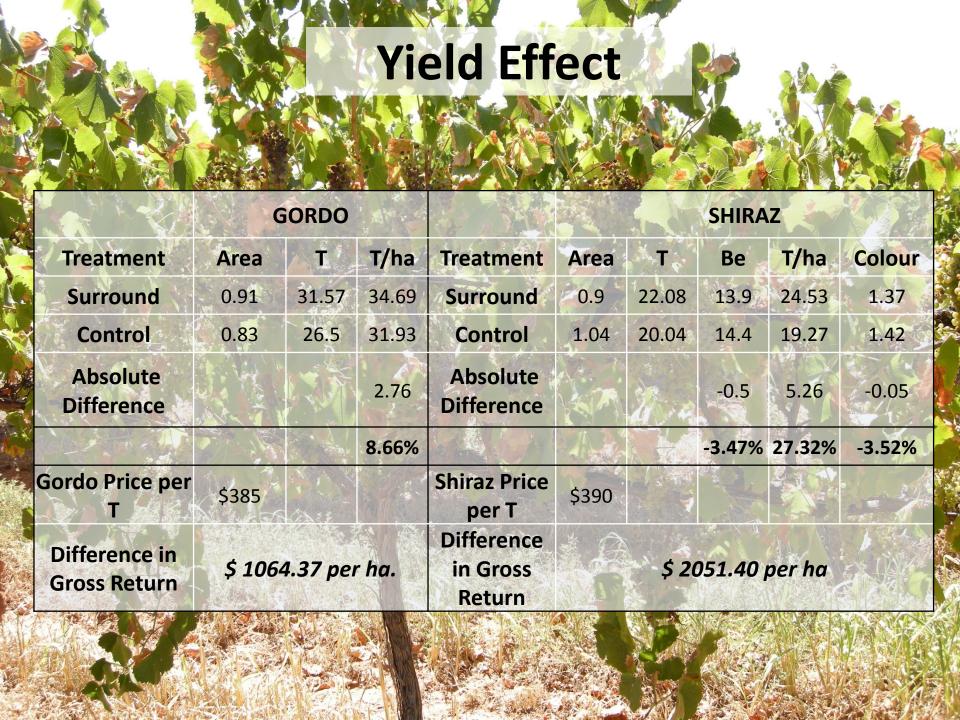




Surface temperature measurements

Temperatures recorded with a hand – held infra-red thermometer during daytime heat and ambient temperature of 46.1° C

Trial	Gordo				Shiraz			
	SunScreen		Control		SunScreen		Control	
	Leaf	Berry	Leaf	Berry	Leaf	Berry	Leaf	Berry
Mean Temperature	45.6	48.8	47.9	50.1	42.3	45.1	45.0	46.8
Difference due to sunscreen	-2.33	-1.32			-2.74	-1.6		
	-5.1%	-2.7%			-6.5%	-3.6%		



Cost: Benefit

Application Costs	Goi	rdo	Shiraz		
	Total	Per ha	Total	Per ha	
Cost of Product	\$450.00	\$258.62	\$280.00	\$144.33	
Machine & Labour	\$467.00	\$268.39	\$233.00	\$120.10	
Total Per ha cost		\$527.01	. 60	\$264.43	
Increased Income / ha due to PFT use		\$1,064.37		\$2,051.40	
Net Benefit		\$537.36		\$1,786.97	

(Cost of Surround at \$4.00 per kg plus GST)

(Cost of spraying at \$100/hour plant and labour)

