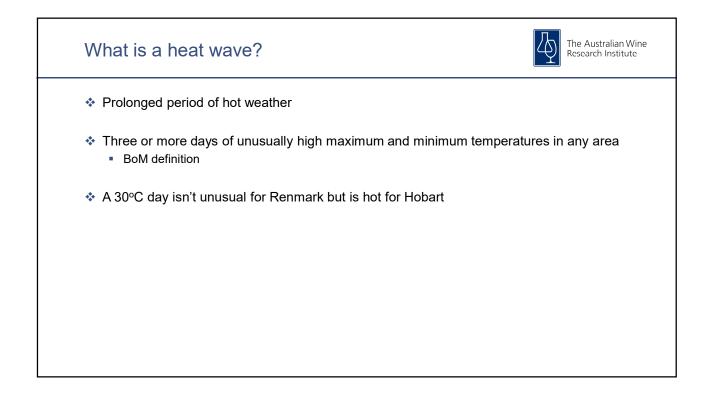
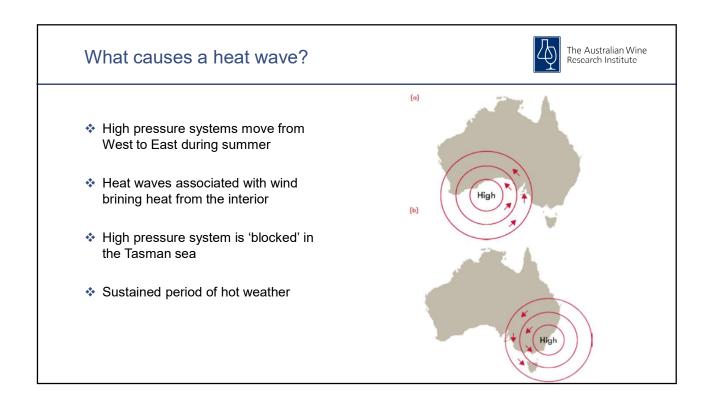


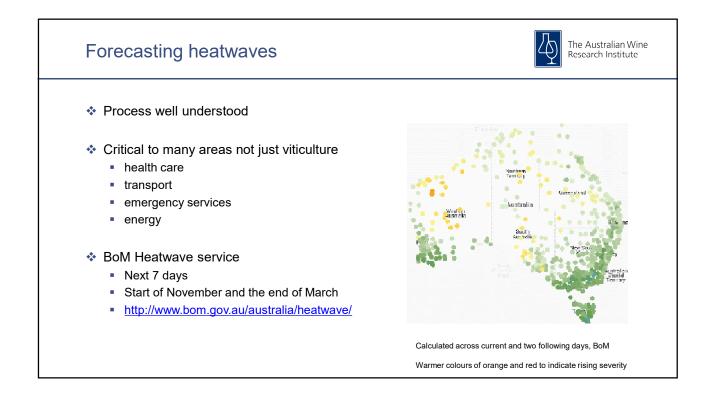
Managing seasonal heatwave events

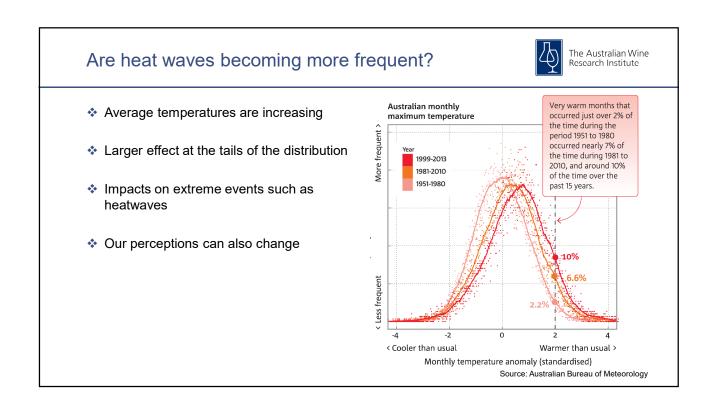
Paul Petrie Viticulture Scientist

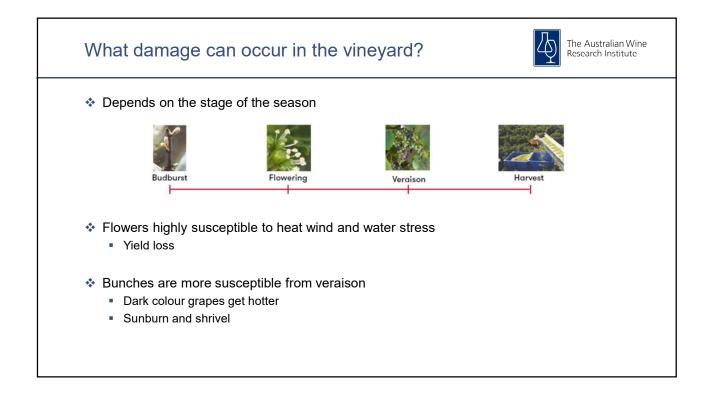
South Australian Research and Development Institute Australian Wine Research Institute

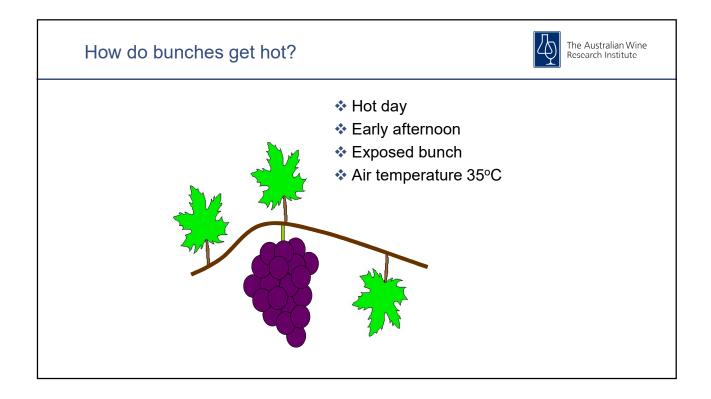


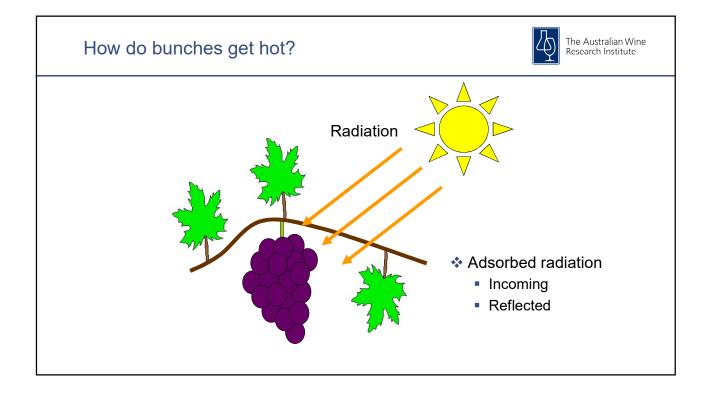


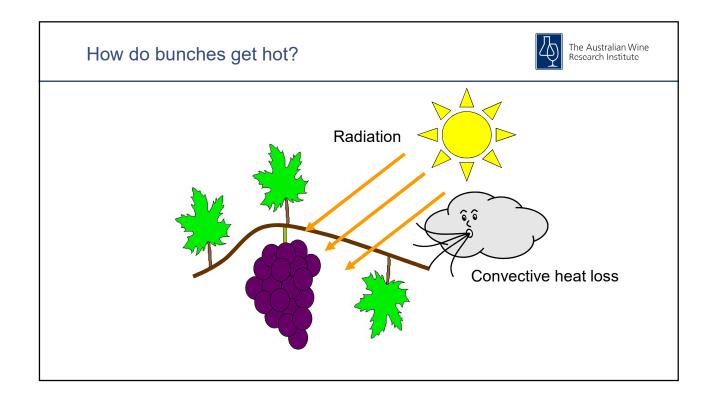


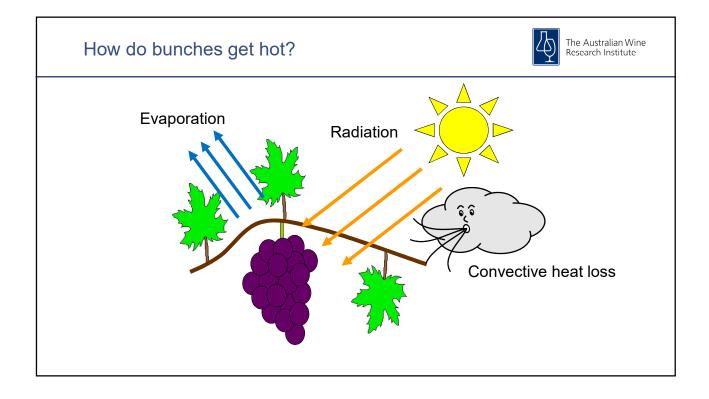


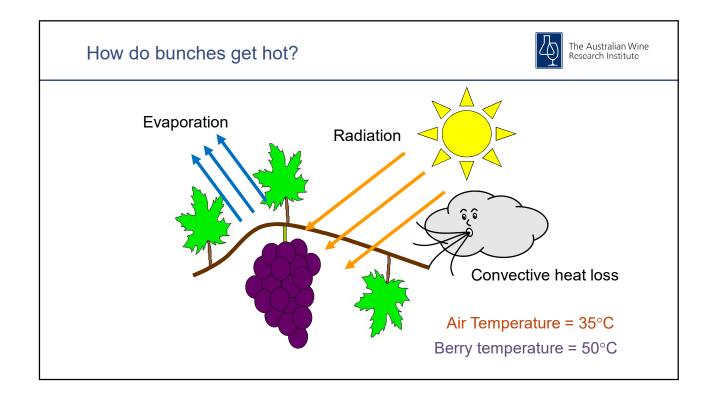


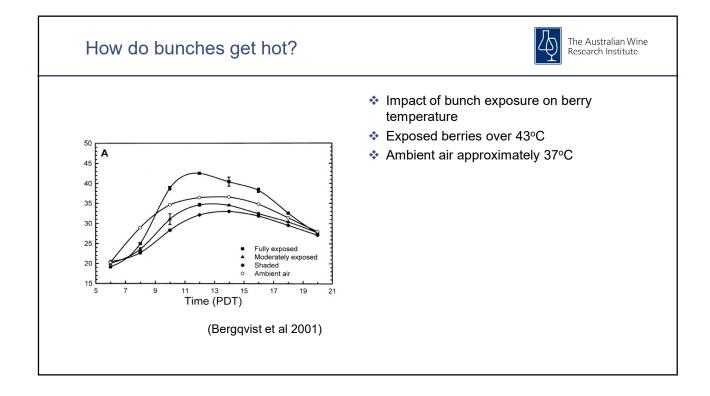












How do bunches get hot?

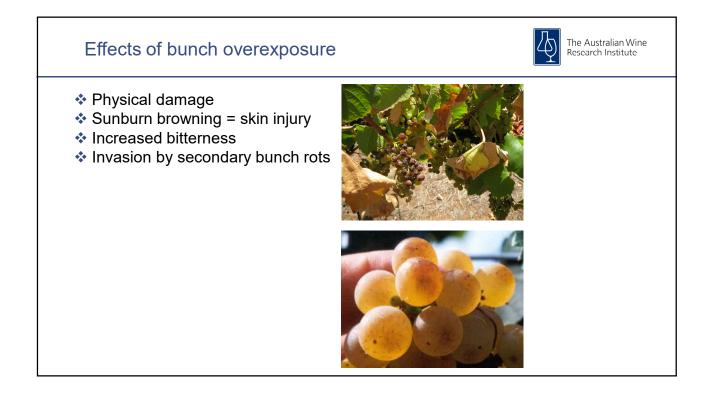


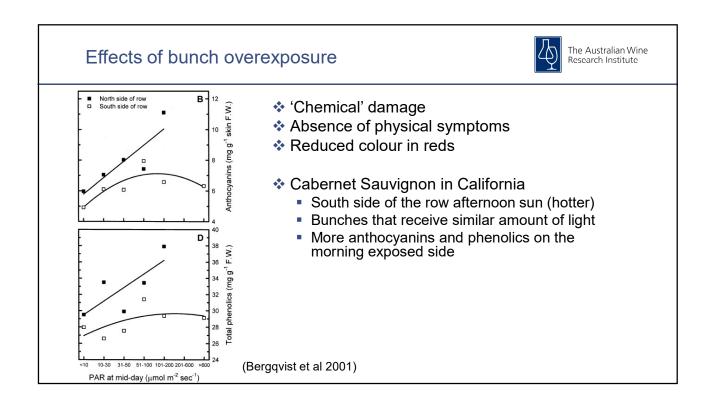
The Australian Wine Research Institute

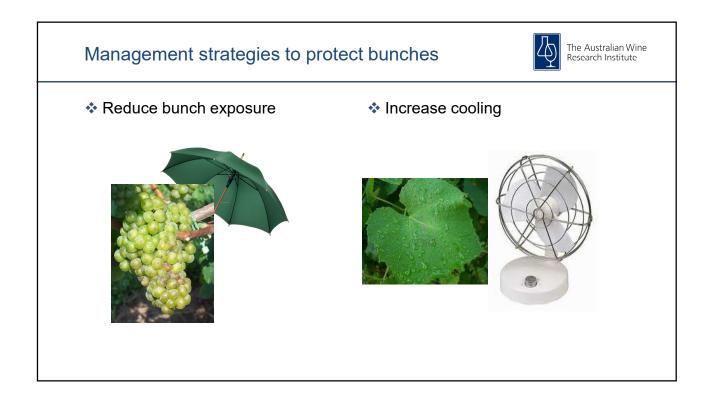
- Vine water status
- Radiation load
- Wind velocity
- Degree of exposure
- Berry/bunch size and compactness
- Berry colour
 - Darker is hotter



Composite thermal image of grape bunch (Moffat 2013)







Managing exposure



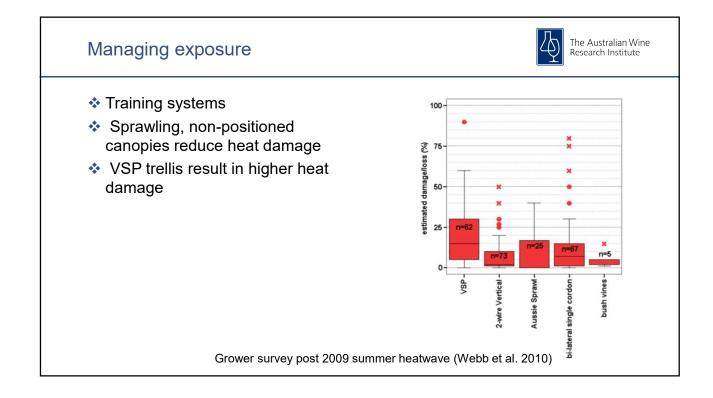
The Australian Wine Research Institute

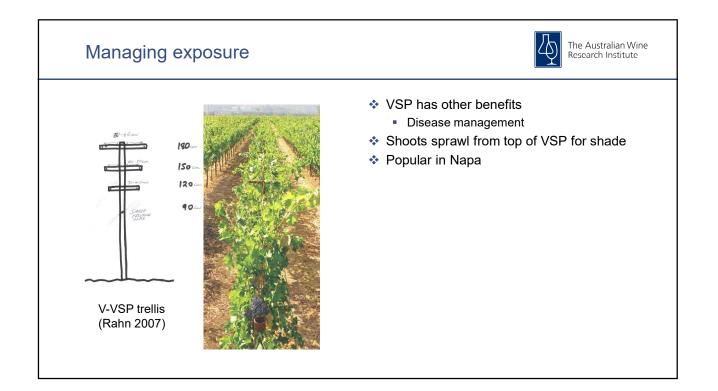
Established Vineyards

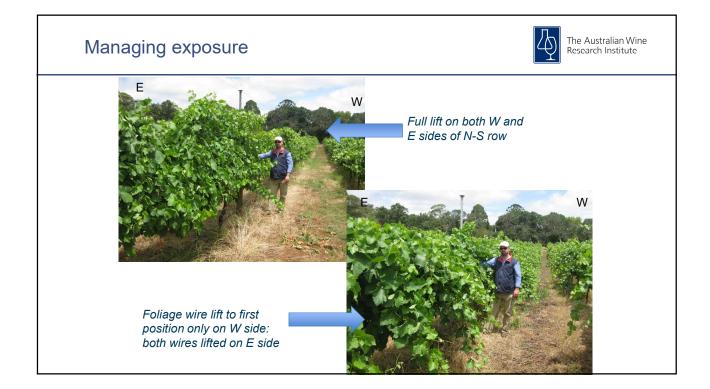
- Canopy management
- Artificial shading
- Chemical sprays
- Vineyard floor management
- Increased shoot growth
 - Pruning, nutrition, irrigation

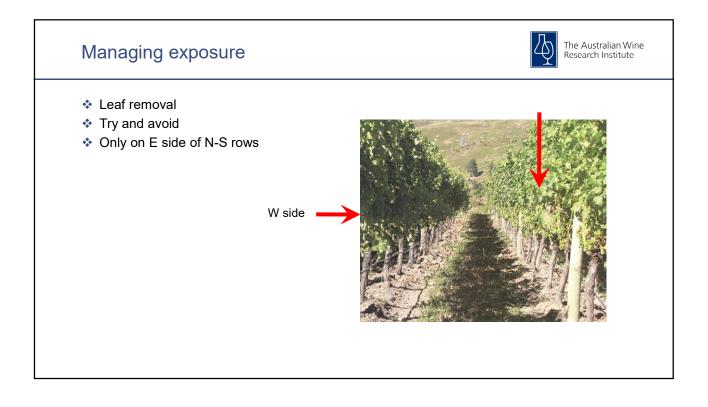
<u>New Vineyards</u>

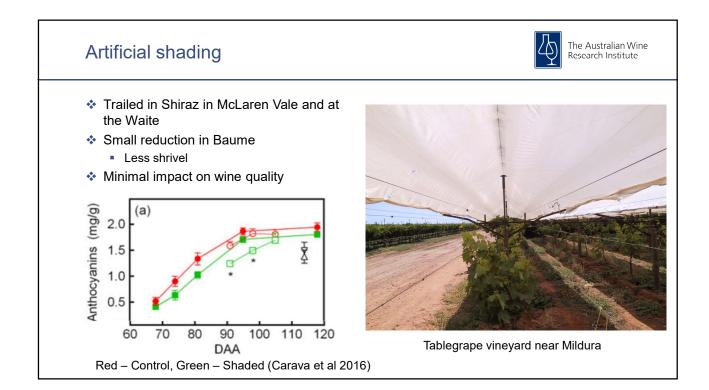
- Row orientation
- Increased shoot growth
 - Rootstocks

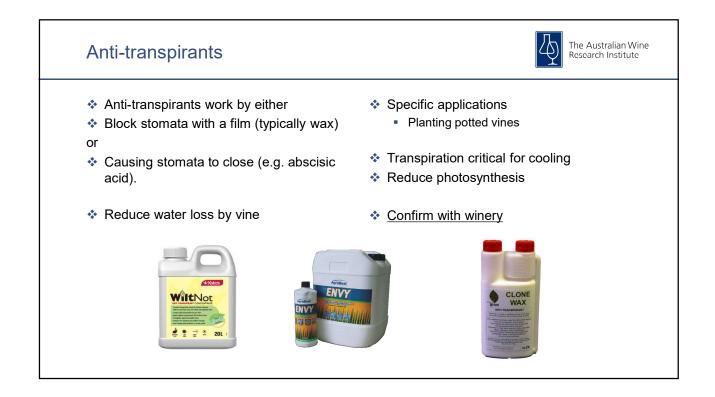


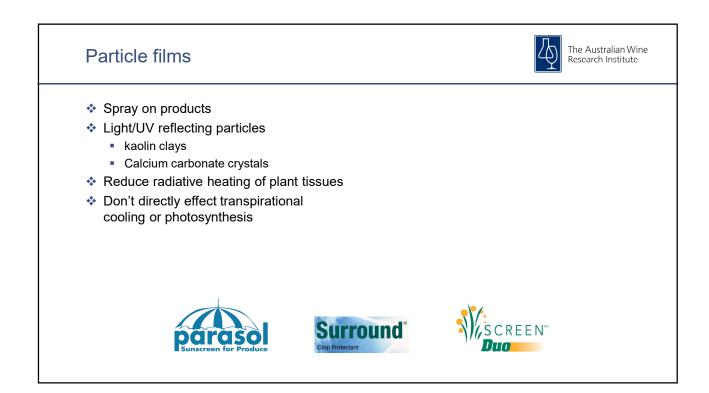


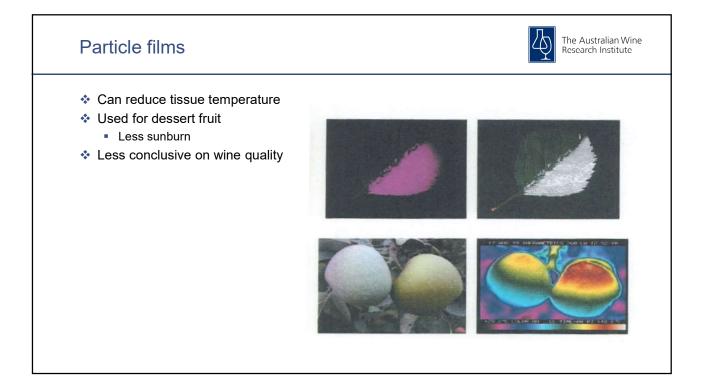


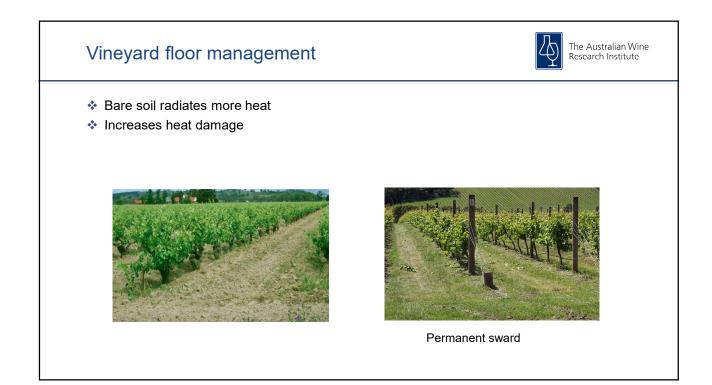


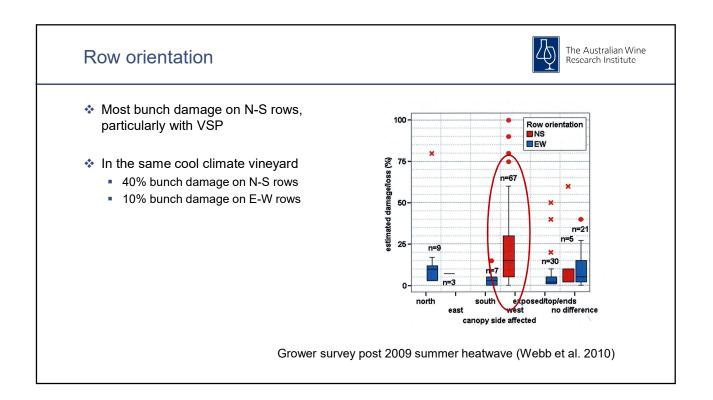


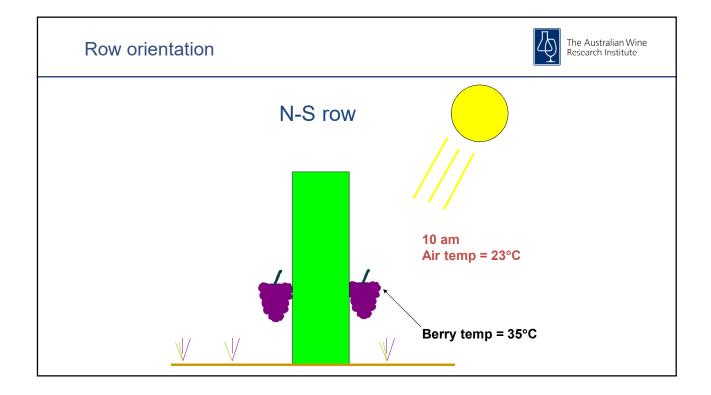


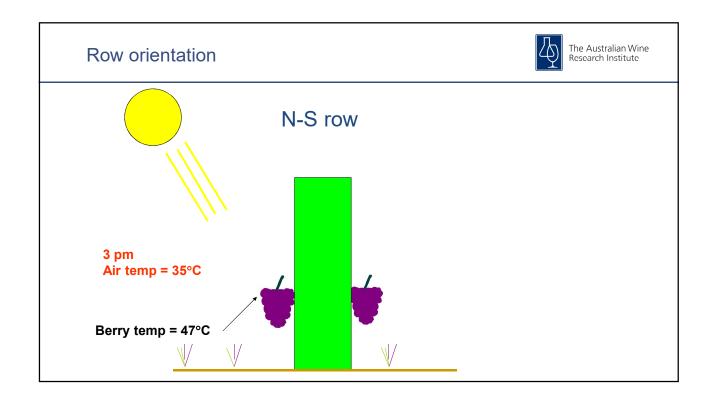


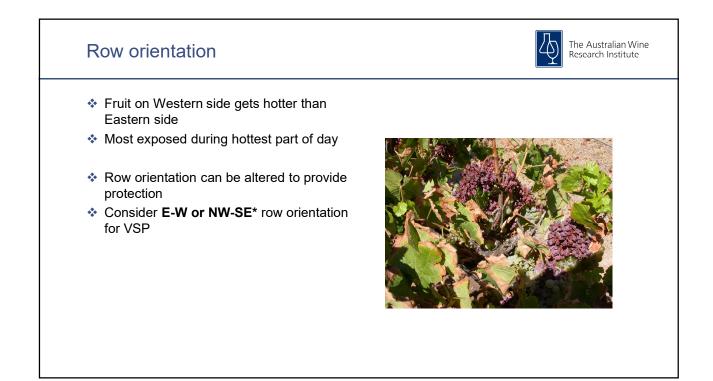












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