

# Vineyard management for a changing climate

Introduction-Nick Dry  
Yalumba Nursery Viticulturist



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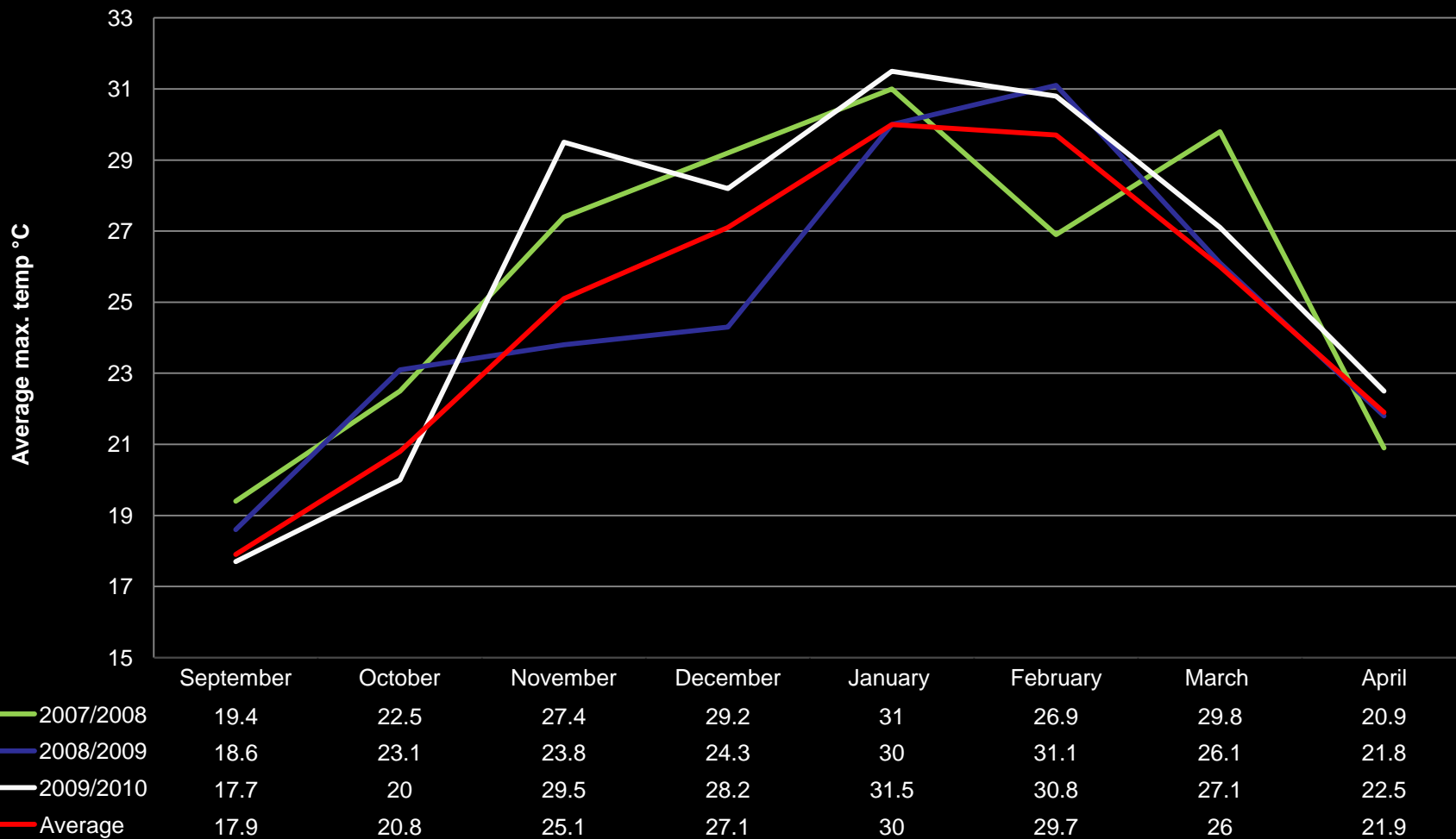
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# Climate change and viticulture- early research

- Boag, Tassie and Hubick (1988)the greenhouse effect. Implications for the Australian Industry WIJ 3(2): 30-36.
- Dry, P R (1988) Climate change and the Australian grape and wine industry. The Australian Grapegrower & Winemaker. 300:14-15.
- Smart, R.E. (1989) Climate change and the New Zealand wine Industry-prospects for the third millenium. Aust. and N.Z. Wine Ind. Journal. 4 (1): 8-11.
- Smart, R.E. (1989) Wine appellation from a new world perspective- including consideration of projected global warming.
- Kenny, G.J. , Harrison, P.A. (1992)The effects of climate variability and change on grape suitability in Europe. Journal of Wine Research. 3 (2): 163-183.

## Average maximum temperature (°C) over the last three growing seasons in the Barossa Valley (Nuriootpa)



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# The Challenge

- How do we manage for these changing and varied conditions?
  - All of system (holistic) approach
  - Building flexibility into our management

# The Programme

## The Bunch

14:00-14:20

Why do bunches get hot? And what are the implications for yield and quality?

Dr Peter Dry (AWRI)

## The Environment

14:20-14:40

Climate risks for grape growing in a warmer and water constrained world.

Dr Peter Hayman (SARDI)



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# The Programme

## **The Soil (part 1)**

14:40-15:00      The relevance of soil health in a changing climate: the role of soil carbon  
Dr Jonathon Sandemann (CSIRO)

## **The Soil (part 2)**

15:00-15:20      The relevance of soil health in a changing climate : mulches, humics, fulvics and cover-crops.  
Dan Newson (Yalumba)



# The Programme

## Water

15:35-16:35 Drought Management: The Oxford Landing story

Mike McCarthy (SARDI)

Ashley Ratcliff (Yalumba)

Adam Hall (Yalumba)

Fred Strachan(Yalumba)



# The Programme

## Planting Material

16:45-17:15      Christophe Riou (ENTAV-INRA)  
                                 Nick Dry (Yalumba Nursery)

Variety and rootstock and selection

# The Programme

## Canopy Management

17:15-17:40     Dr Peter Dry (AWRI)  
                         Amanda Mader (Yalumba)

Management strategies to protect bunches

# The Programme

The 'perfect' vineyard and industry

17:40-18:15 Panel Discussion