

Presented By Mark Collins April 2014

Overview

If there is one thing we can all agree on, it is climate change is here! It is already causing irreversible damage to the planet.

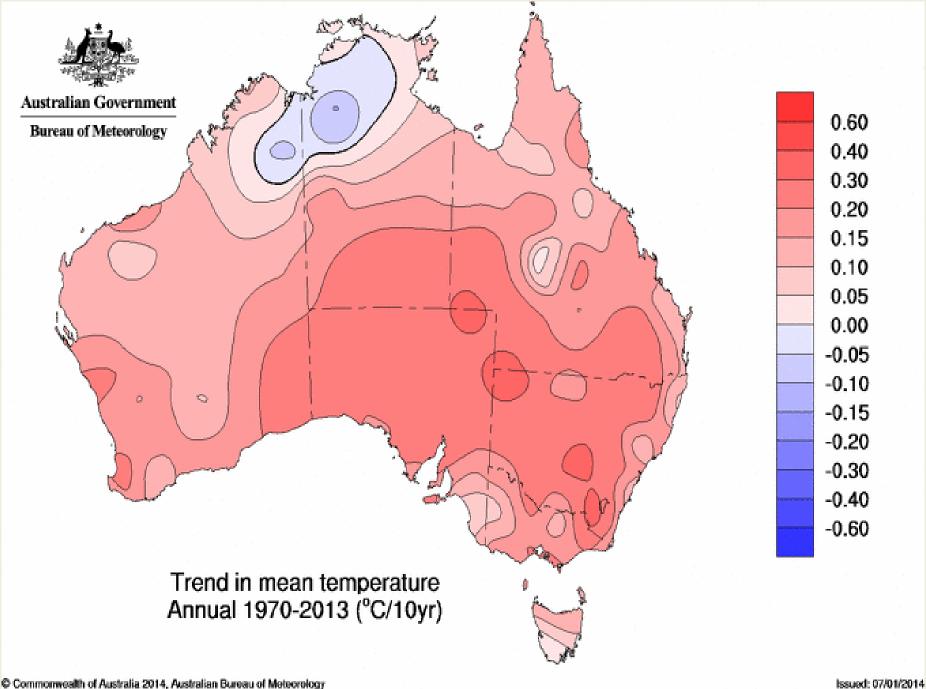
Temperature

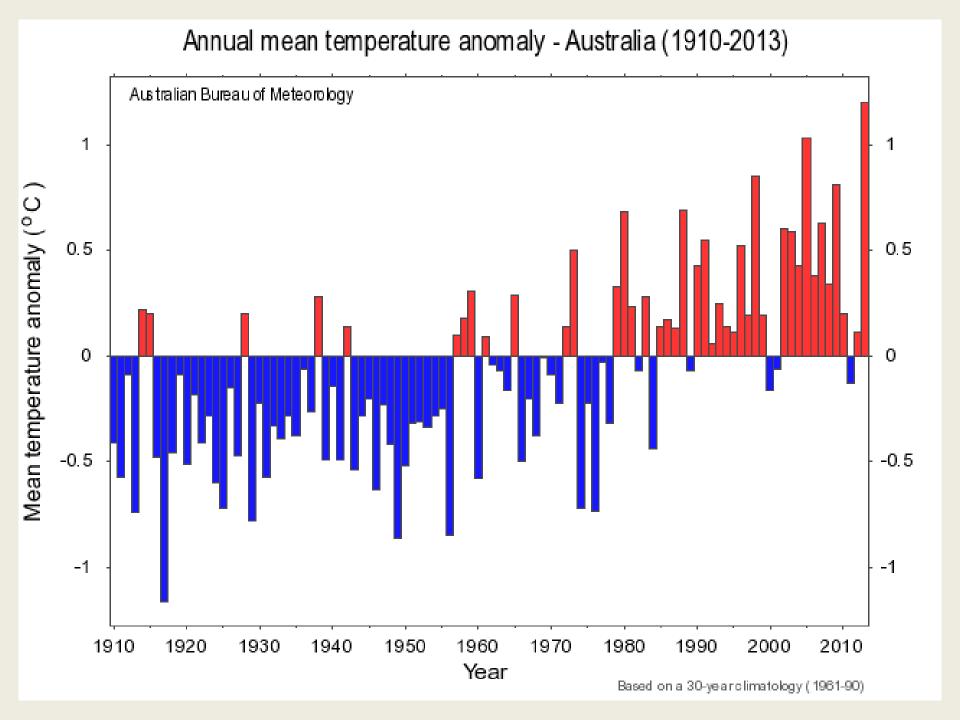
- Australian av temps have increased 0.9°C since 1950.
- The frequency of hot days & nights has increased.
- The frequency of cold days & nights has declined.

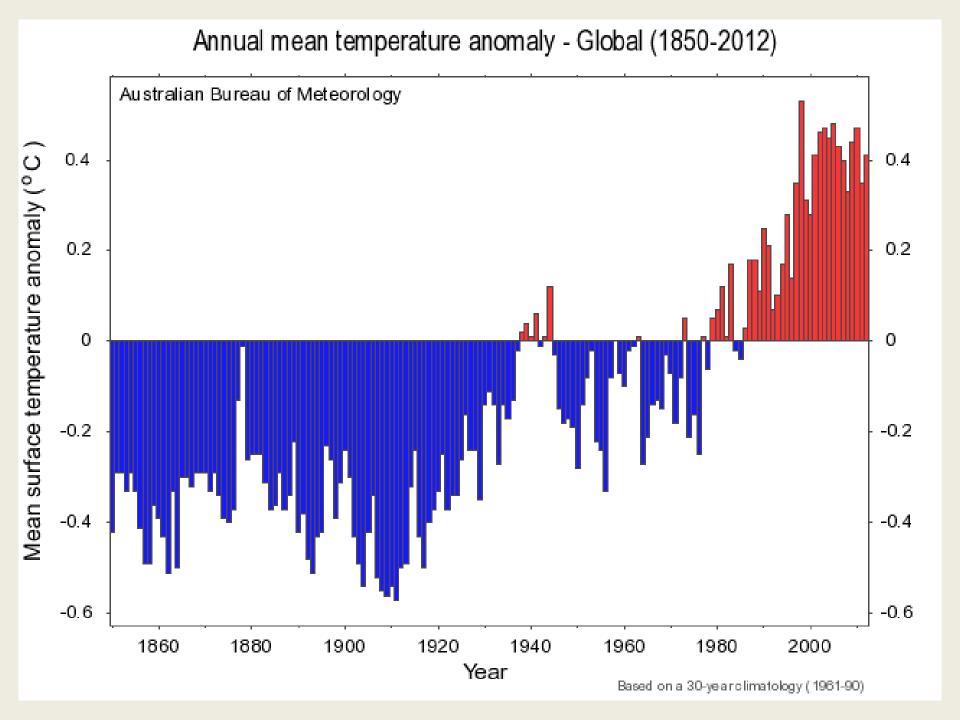
Rainfall

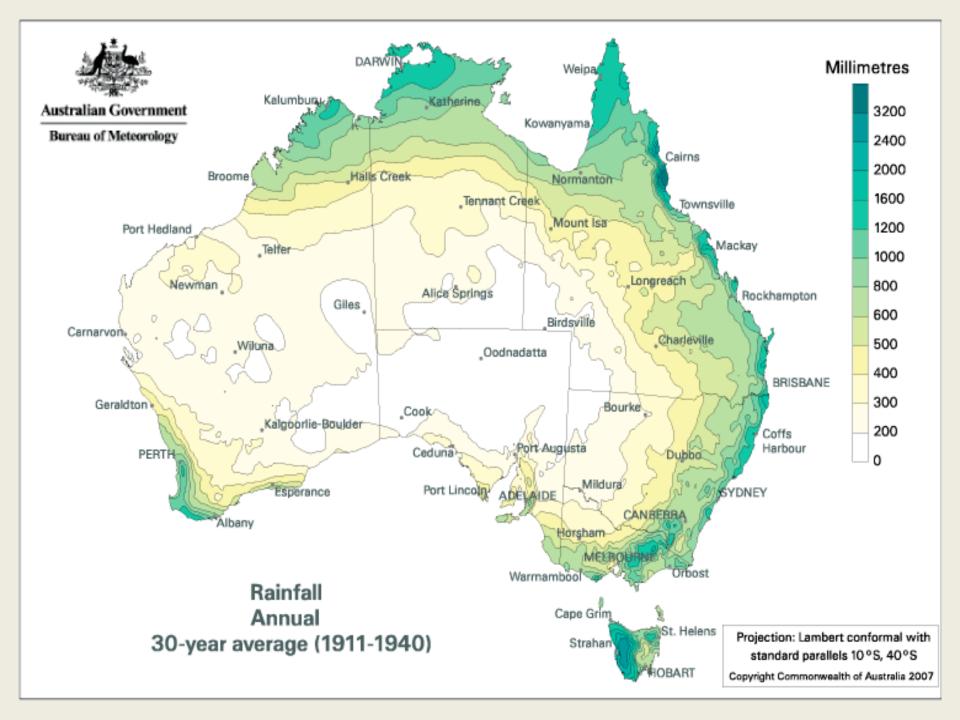
- Have we really become wetter?
- From 1950 to 2005
 - extreme daily rainfall intensity & frequency has increased in northwestern & central Australia & over the western tablelands of NSW,
 - but decreased in the south-east & south-west & along the central east coast.

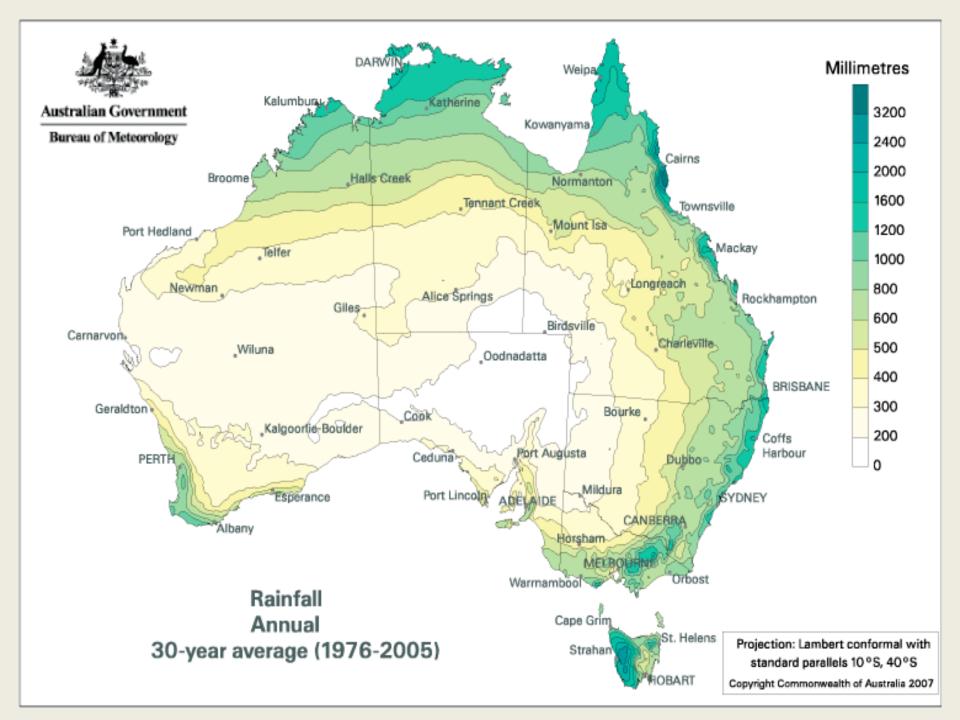




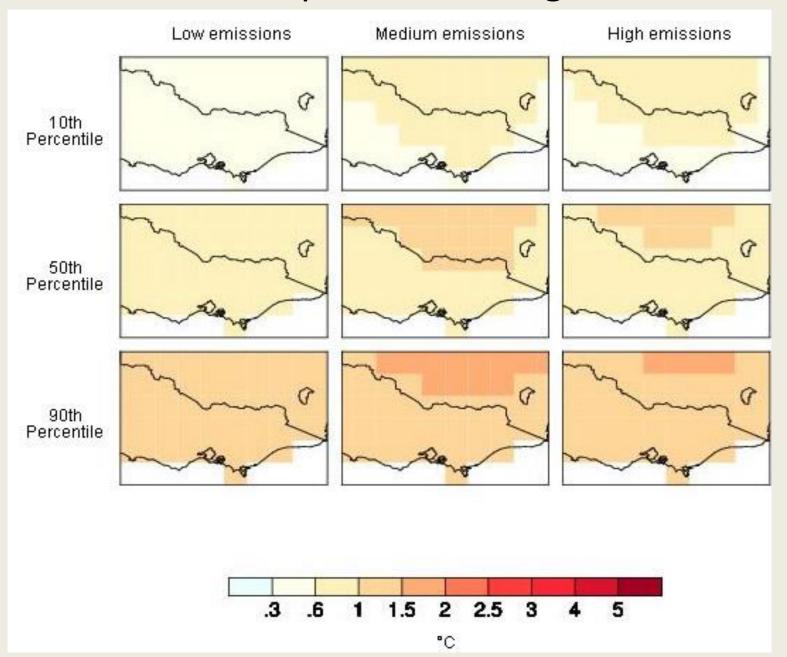




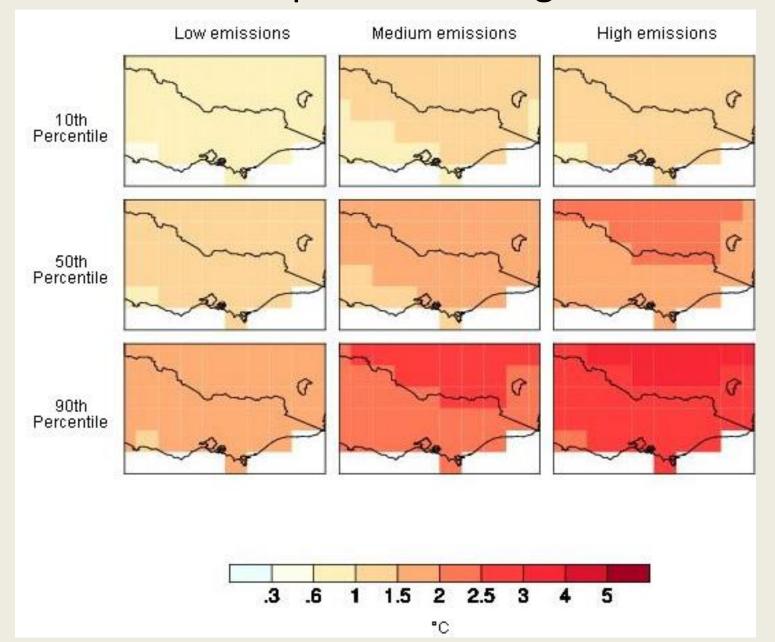




Predictions of Temperature change 2030



Predictions of Temperature change 2050



So What?

- What does this mean for the Parks Manager?
- How will it effect the day to day operations?
- Will it mean a change in the way we maintain Parks into the future?

- 1/4/2014 The Age reported that Bright's Autumn festival scheduled for 25 April will only have a few trees showing autumnal colour.
- Prof Tim Entwistle (Dir of the Victorian Royal Botanic Gardens) suggests that summer is 4 months long and the other seasons 2!

So What?

One thing for sure, we need to constantly change how we do things so our parks survive.

A world wide problem today is the "I have never known it to be so.....wet, dry, hot, warm, windy.....etc."

The Herald Sun 30/01/2014, an article discussed the impact of long hot spells over 40° on the trees in the City of Melbourne and the stress related issues facing the managers.

Grass cutting is becoming a 2 season problem,

With the scarcity of water in summer, how do we keep it alive?

Overlay this with the heightened customer expectations & tightening

of resources,

We have a problem that is not going to go away.

Areas of concern for the Park Manager

- Heavy rains causing Flooding or rapid run off
- Short Sharp periods of rain
- Extended dry periods
- Consecutive hot days
- Prolonged periods of drought
- Dying trees
- New weeds
- Grass Cutting
- How will the garden Grow
- High Fire danger



Areas of concern for the Park Manager

- Rising cost of labour
- Heat stress of employees
- Rising Cost of energy
- Excessive strain on equipment i.e. boggy/dusty conditions
- Types of equip required
- Customer expectations
- Crowded Beaches



Thoughts and Ideas

- Park Design
- Species selection, constantly review what you are planting
- Slow the transfer of weeds
- Grass Cutting
- Warmer temps
- Fire, not limited to the country.



Thoughts and Ideas

- Change the way you engage labour
- Remove heat stress from working hours
- The most efficient machines are needed
- Get equipment right for the terrain or experience the pain!
- Educate schools & the community around parks, their survival
 & their usage
- Manage foreshores & beaches;







Thank You

Questions

Last Priority!

- Coffee has soared 70% in 6 months, due to poor supply from areas affected by drought.
- Rain fall patterns and the spread of pest & disease will reduce the areas where coffee can be grown!

