Title: Temperature and water supply

Instructions

You have been tasked with investigating the effect of temperature on Melbourne's water supply. Follow the steps below to find out if and how the mean highest temperature has changed over the decades.

Explore the Interactive Map for some background information on:

- Water Supply for Melbourne
- Climate change and it's impacts on Melbourne's Water
- Reservoir levels

Step 1.

Take a look at the historical temperature data for an area of your choice in Victoria with help from the Bureau of Meteorology:

Visit the BOM's Climate Change data, <u>here</u>. Select "Temperature" from the drop down box and then "Mean maximum temperature" below. Then select a weather station of your choice by using the search. Once selected, click the "Get data" button.

Text search

Select your data type, your location, then select from the list of stations. If you prefer to see the station locations, use the map search instead.

						(a) Help				
						O LIGIZ				
1:	Data about Type of data	Temperature Observations	Statistics	~	Mean maximum temperature data and graphs for all available years.					
		O Daily Monthly Mean maximum te	○ Daily ○ Monthly mperature ➤							
2:	Select a weat	ther station in the area	of interest							
	ballarat		Find			OR - search by Position				
	Matching tow	vns (click one to select it)								
	Ballarat East Ballarat Nort	c, 37.56°S, 143.85°E t, VIC, 37.57°S, 143.8 th, VIC, 37.54°S, 143.8 th, VIC, 37.57°S, 143.	85°E	*		More information: Geoscience Australia ⊡ (opens new window)				
	Nearest Bure	au stations (click one to	select it)							
	Only show	w open stations (may no	longer report all data ty	nes)						
	089002 Ball 088019 Cres 088015 Clur 089092 War	arat Aerodrome VIC (swick VIC (15.9km away reambine No 2 VIC (35 rrys VIC (42.4km away	More information: for the selected station (opens new window)							
	Date well-ble for the sole at district									
	Data available for the selected station									
					0%					
	1850	1900	1950	2000						
3:	Get the data									
	Station number	er 089002	Get Data (Opens in	n new window)		Save Clear				
•	Don't clear this	s number Note, most sta	tions do not collect all da	ata types. Sear	ching will ensure relevant stations.					



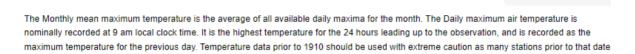
Step 2.

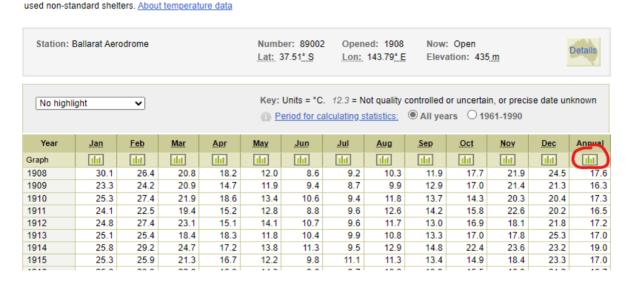
Click the graph button in the 'Annual' column to produce a graph from the data:

Monthly mean maximum temperature

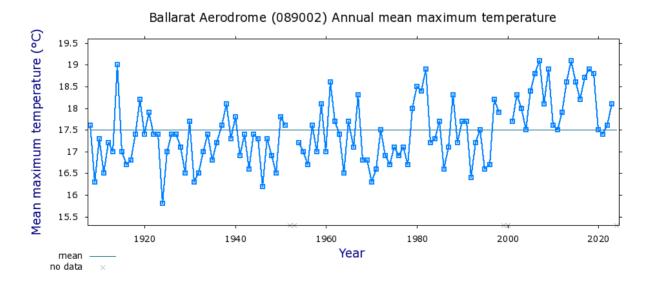
Ballarat Aerodrome

(i) About this page





This will generate a graph like the one shown below:





All years of data PDF

W	n	ks	he	eet

Group: Temperature Name:

Has the temperature for last 50 years?		(your locat	ion) changed in the			
In this location, the average tem This average temperature is highC.						
The hottest year(s) on record for temperature ofC.	this area we	ere in	with a			
Do you see a general trend the mean temperature data						
			,			
What impacts do you think this change in temperature will have on:						
a) Melbourne's water supply?	•					
b) The demand for water?						
b) The demand for water?						
b) The demand for water?						



3. With help from the Interactive Map, create a mind map/visual display showing what impacts a restricted water supply in Melbourne would have (e.g. less water for the environment).

Wetlands dry up

The environment

Restricted water supply

