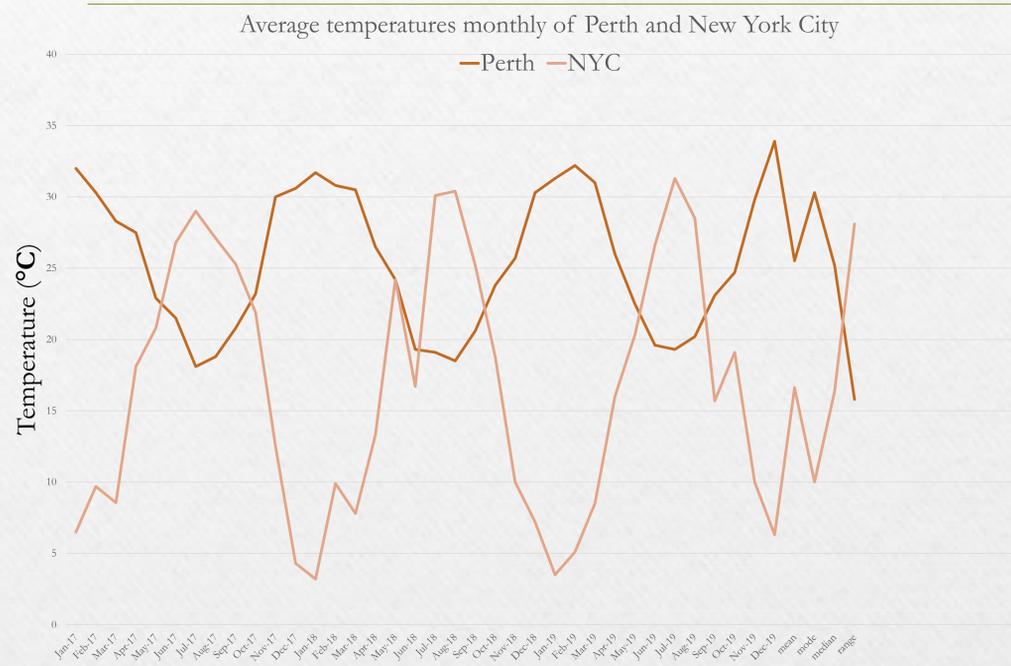


Perth versus World: Weather

By Trent Anastasi, Nick Cheeseman and Bevan Webster



Introduction:

Our statistics project is to compare the temperatures of the cities of Perth and New York City from 2017 to 2019 as Perth is a relatively small city in Australia, whereas New York is one of the biggest and most popular cities on Earth. We also chose these two cities as it compares the temperature between the Northern and Southern Hemispheres.

Aim:

We aim to compare the minimum and maximum monthly temperature between Perth and New York City between 2017 and 2019. This gives us a wider range of values which will give more accurate results.

Hypothesis:

We believe that between the two cities, Perth has the higher average monthly maximum temperatures across 3 years.

Method of data Collection:

The first site we used was the Bureau of Meteorology which gave us our data for Perth. We used Weather Underground to collect our New York data. This site also uses the same data but is easier to find the averages, though there may be a chance of inconsistency between them. We chose our sources because we believe it will be accurate data as it comes from the government. After we collected our information, we sorted it into a table.

	Mean	Mode	Median	Range
Perth	25.5	30.3	25.2	15.8
NYC	16.6	10	16.3	28.1

Analysis:

Using the data we found, we calculated that Perth had a mean temperature of 25.6° over the 3-year period we looked at, while New York had a lower mean at only 17.1°. There were distinct high and low points annually in January and July, and whenever there was a peak in the temperature of one city, the other city's temperature hit a low point.

Conclusion:

Our hypothesis turned out to be correct as the mean temperature in Perth was 8.9° higher than in New York from 2017 to 2019, although New York's temperature ranged almost double what it did in Perth.

Sources:

Bom.gov.au. 2020. *Perth In January 2017*. [online] Available at: <<http://www.bom.gov.au/climate/current/month/wa/archive/201701.perth.shtml>> [Accessed 17 September 2020].

Wunderground.com. 2020. *New York City, NY Weather History | Weather Underground*. [online] Available at: <<https://www.wunderground.com/history/monthly/us/ny/new-york-city/KLGA/date/2017-01>> [Accessed 17 September 2020].