

Chapter 18 – Investigation

This table gives information about the mean annual rainfall and mean monthly temperature, mean daily maximum and mean daily minimum temperature in some locations in New Zealand.

	Mean annual rainfall (mm)	Mean monthly temperature (°C)	Mean daily maximum temperature (°C)	Mean daily minimum temperature (°C)
Kaitia	1349.2	15.7	19.6	11.8
Auckland	1210.7	15.2	19.0	11.3
Hamilton	1108.4	13.8	18.9	8.7
Gisborne	978.7	14.5	19.5	9.5
Taupo	954.5	11.7	16.7	6.7
New Plymouth	1398.0	13.7	17.5	10.0
Napier	776.0	14.6	19.5	9.7
Whanganui	916.7	14.1	18.0	10.0
Masterton	922.9	12.8	18.1	7.5
Wellington	1215.4	12.9	15.9	9.9
Nelson	950.7	12.8	17.6	7.9
Blenheim	720.1	12.6	18.4	6.8
Hokitika	2901.4	11.7	15.7	7.7
Christchurch	618.2	12.2	17.2	7.3
Queenstown	741.4	9.7	15.0	4.4
Alexandra	335.3	11.1	17.9	4.2
Invercargill	1146.6	10.0	14.4	5.5

- 1 Draw a scatter plot and make some conclusions about any three of these. You can use a spreadsheet package if you want to.

- a mean annual rainfall and mean monthly temperature
- b mean annual rainfall and mean daily maximum temperature
- c mean annual rainfall and mean daily minimum temperature
- d mean monthly temperature and mean daily maximum temperature
- e mean monthly temperature and mean daily minimum temperature

- 2 Find more data on mean annual rainfall and mean monthly and daily temperatures in other locations in New Zealand. Does your data fit the conclusions that you have made about the scatter plots that you have drawn.

You could use the NIWA website or local weather stations.

