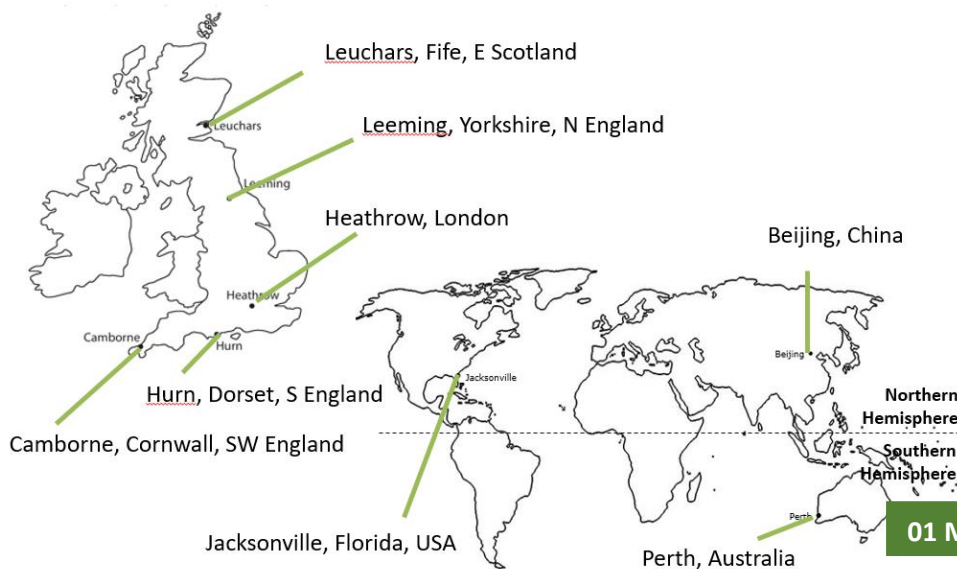


Edexcel Large Data Set – Factsheet



5 UK locations

Have a rough idea of UK geography (e.g. the more north a location, the more likely temperature will be lower, rainfall will be higher, etc ...)

3 overseas locations

Again, have a rough idea of world geography (e.g., Florida is prone to hurricanes and Perth is the only location in the LDS that is in the southern hemisphere)

01 May to 31 October (6 months, 184 days)

UK – 14 variables

1. Daily Mean Temperature ($^{\circ}\text{C}$) to 1 d.p.
2. Daily Total Rainfall (mm) to 1 d.p.
3. Daily Total Sunshine (hours) to 1 d.p.
4. Daily Maximum Relative Humidity (%)
5. Daily Mean Visibility (Dm): 1 Dm = 10 m
6. Daily Mean Total Cloud (oktas)
7. Daily Mean Pressure (hPa)
8. Daily Mean Windspeed (knots)
9. Daily Mean Windspeed (Beaufort conversion)
10. Daily Maximum Gust (knots)
11. Daily Mean Wind Direction (bearing)
12. Daily Mean Wind Direction (cardinal direction)
13. Daily Maximum Gust Direction (bearing)
14. Daily Maximum Gust Direction (cardinal direction)

7 wind related variables!

Majority of rainfall values in ALL locations is 0!

above 95% associated with mist and fog

note link with humidity

Qualitative data

October 1987

All UK locations experienced relatively higher rainfall in comparison to May – September due to the great storm/hurricane

October 1987 & 2015

Beijing significantly colder relative to May – September

Overseas – 5 variables

1. Daily Mean Temperature ($^{\circ}\text{C}$) to 1 d.p.
2. Daily Total Rainfall (mm) to 1 d.p.
3. Daily Mean Pressure (hPa)
4. Daily Mean Windspeed (knots)
5. Daily Mean Windspeed (Beaufort conversion)

Direction wind is blowing FROM, e.g. direction of 270° (W) means wind is blowing from West to East

Trace 'tr'

Rainfall is the only variable with 'tr'.

Trace means values of rainfall less than 0.05mm.

If using trace in a calculation, mean & standard deviation for example, use 0.025 (cleaning data).

Did you know?

'Tr' and n/a does NOT appear overseas?

Discrete variables (relevant in probability questions)

Cloud cover (0 – 8, 9 outcomes),

Cardinal directions (N, NNE, etc ... 16 outcomes)

Not available 'n/a'

The only 4 variables to have n/a are: daily total sunshine, daily mean windspeed (and Beaufort conversion) and daily maximum gust.

The four aforementioned variables are all n/a for the first two weeks of May 1987 – relevant in sampling questions.