

# School of Earth Sciences and Geography Keele University : Weather Data

Lat. 52° 59' 55 N    Long. 2° 16' 05 W :  
OS Grid Ref : SJ 820447; Alt. 179m (587ft) O.D.

## Summary of Climate Data for :-

July 2022

|                               |           | From norm | Day | Comments |
|-------------------------------|-----------|-----------|-----|----------|
| Mean Air Temp (°C)            | 17.3      | 2.2       |     |          |
| Mean Air Maximum (°C)         | 21.5      | 2.5       |     |          |
| Mean Air Minimum (°C)         | 13.1      | 2.0       |     |          |
| Highest Maximum (°C)          | 36.1      |           | 19  |          |
| Lowest Maximum (°C)           | 16.8      |           | 3   |          |
| Highest Minimum (°C)          | 22.5      |           | 19  |          |
| Lowest Minimum (°C)           | 8.2       |           | 27  |          |
| Mean Grass Minimum (°C)       | 11.1      |           |     |          |
| Lowest Grass Minimum (°C)     | 4.2       |           | 3   |          |
| Mean Concrete Minimum (°C)    | 13.1      |           |     |          |
| Lowest Concrete Minimum (°C)  | 7.3       |           | 27  |          |
| Mean 10cm. Soil Temp (°C)     | 17.5      | 0.1       |     |          |
| Mean 30cm. Soil Temp (°C)     | 17.2      | 1.7       |     |          |
| Mean 100cm. Soil Temp (°C)    | 14.8      | 1.8       |     |          |
| Air Frost (days)              | 0         | 0         |     |          |
| Ground Frost (days)           | 0         | 0         |     |          |
| Ice Days (below 0°C)          | 0         |           |     |          |
| Hot Days (over 21°C)          | 8         |           |     |          |
| Rainfall (mm)                 | 46        | -19.4     |     |          |
| Days with 0.2mm or more       | 14        | 0         |     |          |
| Days with 1.0mm or more       | 9         | -2        |     |          |
| Days with 5.0mm or more       | 3         |           |     |          |
| Greatest fall in one day (mm) | 14        |           | 30  |          |
| Relative Humidity (%)         | 76        |           |     |          |
| Sunshine (hours)              | 181.5     | 17.2      |     |          |
| Sunniest Day (hours)          | 14.2      |           | 10  |          |
| Days with Nil Sunshine        | 1         | -1        |     |          |
| Mean Barometric Pressure (mb) | No        |           |     |          |
| Maxima (mb)                   | Data      |           |     |          |
| Minima (mb)                   | Available |           |     |          |

## Summary of Wind Data for :-

July 2022

| Force                             | Total | % |
|-----------------------------------|-------|---|
| Hours of Calm                     | 1     |   |
| Hours of 10 Knots (12mph) or over | 26    |   |
| Gusts of 34Knots (39mph) or over  | 0     |   |

**Mean Wind Speed (Knots)** 5.1

|                                     | Knots | Date | Time |
|-------------------------------------|-------|------|------|
| <b>Highest Hourly Mean Velocity</b> | 13    | 6    | 23   |

|                     |    |   |
|---------------------|----|---|
| <b>Highest Gust</b> | 29 | 7 |
|---------------------|----|---|

## Percentage Time vs Wind Direction

