



# Annual 2019 Ireland

## ***Above average rainfall, Temperatures slightly above average***

The year began dry and settled with high pressure over Ireland. The second half of January was unsettled and the month finished cool. After a cool start, February was very mild and relatively dry with high pressure over mainland Europe the dominant feature. Storm Erik affected Ireland on the 8th and 9th. March was a mild, unsettled month with a dry finish. Storm Freya brought some snow on the 3rd and Storm Gareth gave the strongest winds of the month on the 12th and 13th. High pressure over Scandinavia during April brought a mild south-easterly airflow over Ireland. Storm Hannah crossed the country on the 26th and 27th. May was drier for most with near average temperatures as high pressure to the north influenced our weather. Blocking high pressure over Greenland kept Ireland cool for most of June, although the final week saw warm air moving up from the south. July was warm and dry overall in a slack airflow, and finished again with very warm air moving up from the south. After a dry start, August was mild and unsettled with Atlantic low pressure systems dominating. Pressure was relatively high for the first three weeks of September, which gave some settled weather, but the month finished very unsettled. October and November were cool with a southerly tracking Jetstream, which brought a lot of rain to the South and East. Storm Lorenzo, an ex-tropical system, affected Ireland on the 3rd and 4th of October. After a dry and cool start, December was an Atlantic dominated windy month with variable rainfall. Storm Atiyah affected Ireland on the 8th and 9th and Storm Elsa on the 18th. On Christmas Day, a transient area of high pressure kept it dry and calm. The month finished mild as high pressure developed to the south-east.

## **Rainfall: Above average at most stations**

The majority of annual rainfall totals were above their Long-Term Average (LTA). Percentage of annual rainfall values ranged from 95% (rainfall total of 1132.9 mm) at Sherkin Island, Co. Cork to 120% (rainfall total of 1426.8 mm) at Athenry, Co. Galway. Annual rainfall totals ranged from 807.6 mm (percentage of LTA 104%) at Dublin (Phoenix Park) to 1796.6 mm (percentage of LTA 112%) at Newport, Co. Mayo. The highest daily rainfall total was 56.2 mm at Fermoy (Moore Park), Co Cork on the 14th October. The number of rain days ranged from 19 days at both Dunsany, Co. Meath and Athenry, Co. Galway to 27 days at Valentia Observatory, Co. Kerry. The number of rain days ranged from 196 days at Dublin (Phoenix Park) to 278 days at Belmullet, Co. Mayo. The number of wet days<sup>1</sup> ranged from 134 days at Dublin (Phoenix Park) to 223 days at Newport, Co. Mayo. The number of very wet days<sup>3</sup> ranged from 22 days at Dublin (Phoenix Park) and Oak Park, Carlow to 70 days at Newport, Co. Mayo.

## **Temperature: Above average at most stations**

Most stations recorded mean air temperatures above their Long-Term Average (LTA). Deviations from mean air temperature for the year ranged from -0.1 °C at Dublin Airport, Markree, Co. Sligo and Athenry, Co Galway to 0.7 °C at Dublin (Phoenix Park). Mean temperatures for the year ranged from 9.0 °C (difference from LTA 0.5 °C) at Knock Airport to 11.3 °C (difference from LTA 0.2 °C) at Sherkin Island, Co Cork. The highest temperature was reported at Shannon Airport, Co Clare on the 27th June with a temperature of 28.4 °C. The lowest air minimum was recorded on the 31st January at Dublin Airport with -5.8 °C while the lowest grass minimum was -10.6 °C, reported at Mount Dillon, Co Roscommon on the 18th November. The number of days with ground frost ranged from 24 days at Sherkin Island, Co Cork to 137 days at Mount Dillon, Co Roscommon. The number of days with air frost ranged from zero days at Sherkin Island and Roches Point, Co. Cork to 51 days at Mount Dillon, Co Roscommon.

## **Sunshine: Sunniest in the Southeast**

Sunshine totals were variable, sunniest in the Southeast. Percentage of annual sunshine values ranged from 86% (the year's lowest annual sunshine total of 1029.1 hours) at Knock Airport, Co. Mayo to 113 % (the highest sunshine total of 1607.7 hours) at Johnstown Castle, Co. Wexford. The highest number of daily sunshine hours recorded this year was 15.7 hours at Belmullet, Co. Mayo on the 14th July. The number of dull days<sup>2</sup> ranged from 83 at Dublin Airport to 110 at Knock Airport, Co Mayo.

## **Wind: Storm force winds were reported during several storms in the Southwest, West and Northwest**

Annual mean wind speeds ranged from 6.1 knots (11.3 km/h) at Mullingar, Co. Westmeath to 15.0 knots (27.8 km/h) at Mace Head, Co. Galway. There were numerous days with gales and strong gales with storm force winds on the 26th Jan, 8th Feb, 12th Mar, 26th Apr, 4th Oct, 8th Dec, 18th Dec. The number of days with strong gales ranged from zero at most stations to 20 days at Mace Head, Co. Galway. The number of days with storms force winds were 5 days at Mace Head, Co. Galway and two days at both Sherkin Island, Co. Cork and Malin Head, Co. Donegal. The highest gust was reported at Malin Head, Co. Donegal on the 12th March with 70 knots (129 km/h). The highest 10-minute mean wind speed was 53 knots (98 km/h) at Mace Head, Co. Galway on the 18th December.

## **EXTREME VALUES AT SYNOPTIC STATIONS**

### **Rainfall**

Highest total: 1796.6 mm (112% of its LTA) at Newport, Co Mayo  
Lowest total: 807.6 mm (104% of its LTA) at Dublin (Phoenix Park)  
Highest daily rainfall: 56.2 mm at Moore Park, Co Cork on the 14th October

### **Temperature**

Highest mean annual temperature: 11.3°C at Sherkin Island, Co Cork (0.2°C above its LTA)  
Lowest mean annual temperature: 9.0°C at Knock Airport, Co Mayo (0.5°C above its LTA)  
Highest Air temperature: 28.4°C at Shannon Airport, Co Clare on the 27th July  
Lowest air temperature: -5.8°C at Dublin Airport. Co Dublin on the 31st January  
Lowest grass minimum: -10.6°C at Mount Dillon, Co Roscommon on the 18th November

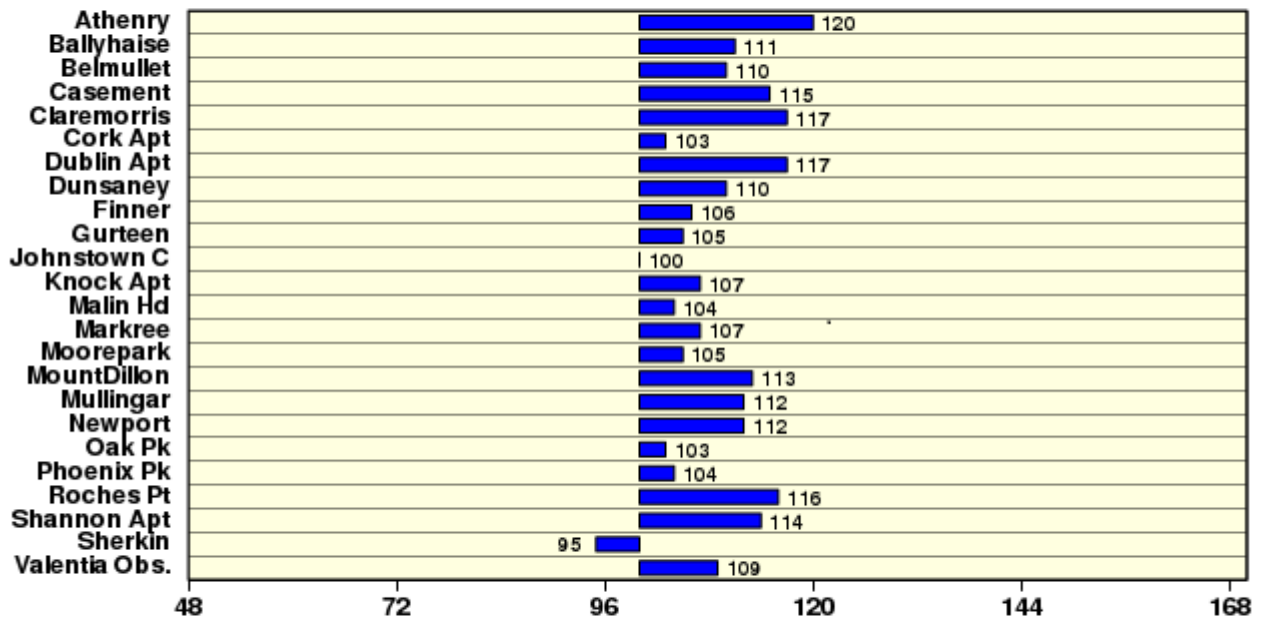
### **Sunshine**

Highest total: 1607.7 at Johnstown Castle\*, Co Wexford  
Lowest total: 1029.1 at Knock Airport, Co Mayo.  
Highest daily sunshine: 15.7 hours at Belmullet, Co Mayo on the 14th July

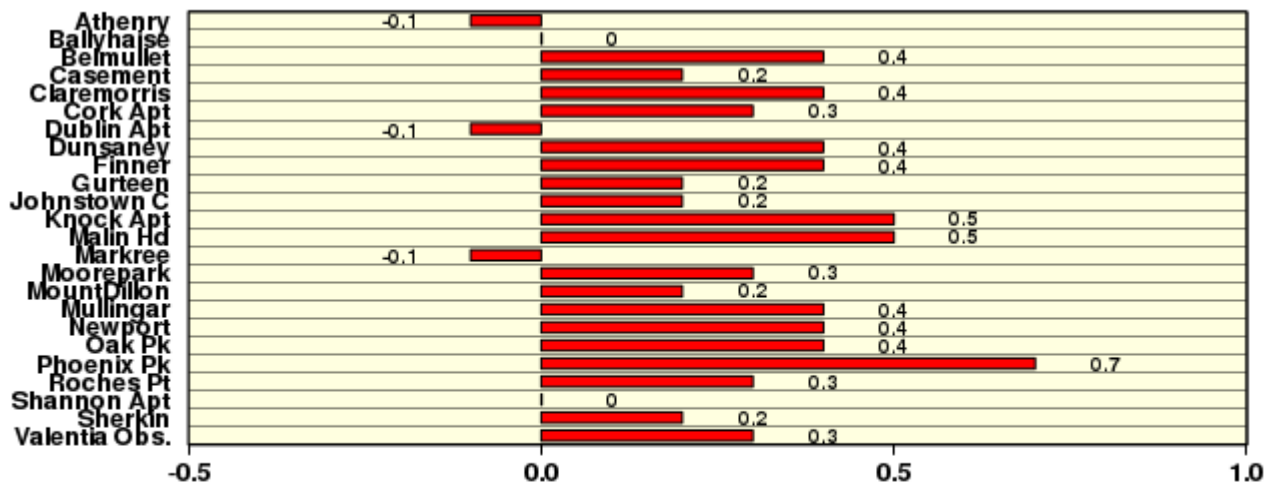
# 2019 Annual Percentage/Difference from 1981-2010 Normals

Based on Data from 1st January to 31 December 2019 on whole year basis

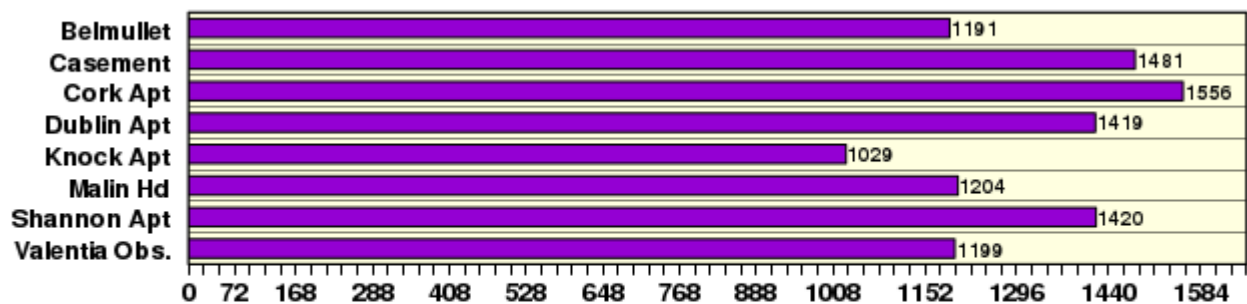
## Rainfall (% of normal for period 1981-2010) on whole year basis



## Temperature (°C) (difference from normal for period 1981-2010)



## Sunshine



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This report is based on preliminary data from 24 synoptic weather stations operated by Met Éireann

For more information, contact Met Éireann at 01-8064200 or e-mail: [enq@met.ie](mailto:enq@met.ie) website: [www.met.ie](http://www.met.ie)

Long-Term Averages (LTAs) and “average” refer to the period 1981-2010. <sup>1</sup> A wet day is a day with 1.0 mm or more of rainfall. <sup>2</sup> A dull day is a day with less than 0.5 hours of sunshine. <sup>3</sup> A very wet day is a day with 10.0 mm or more of rainfall. \*Sunshine data is from the Autosol Network. LTAs for these sites are currently not used for comparison purposes.