



# June 2019

## **A cool month overall, warmer finish**

The first three weeks of June were dominated by a blocking high-pressure system over Greenland and a downstream trough over Ireland and the UK. This introduced cool and unsettled weather with low pressure close to or over the country for much of the time, bringing bands of rain or showers in a cyclonic flow. The heaviest falls of frontal rain during the first three week period were on the 4th and 5th. The showers were heavy and thundery at times, especially on the 9th and 10th, and again on the 15th and 16th. The beginning of the fourth week brought a short-lived area of high pressure over the country with mainly dry conditions for a few days. A low-pressure system to the Southwest of Ireland pushed active weather fronts up from the South on the 23rd, bringing heavy rain to all bar the far Northwest. This introduced a warmer air mass over the country with high pressure to the North, in an easterly airflow. A plume of very warm air advected from North Africa, through Spain and France and over Ireland on the 27th and 28th, resulting in the warmest period of the month. The month finished with a thundery breakdown on the 29th, followed by a cooler air mass pushing in from the West.

## **Rainfall: Above average for most, driest in the West and Southwest**

The majority of monthly rainfall totals were above their Long-Term Average (LTA). Percentage of monthly rainfall values ranged from 49% (the month's lowest monthly rainfall total of 40.3 mm) at Mace Head, Co Galway to 176% (monthly rainfall total of 112.6 mm) at Roche's Point, Co Cork. Monthly rainfall totals were as much as 115.6 mm (170% of its LTA) at Ballyhaise, Co Cavan (*its wettest June since 2012*). The highest daily rainfall total was 39.1 mm at Cork Airport on the 23rd (*its wettest June day since 2008*). The number of rain days ranged from 14 days at Sherkin Island, Co Cork to 22 days at both Mullingar, Co Westmeath and Newport, Co Mayo. The number of wet days<sup>1</sup> ranged from 8 days at Shannon Airport, Co Clare to 18 days at Newport, Co Mayo. The number of very wet days<sup>3</sup> ranged from 1 day at a few stations to 4 days at several stations.

## **Temperature: Below average for all**

All mean air temperatures across the country were below their Long-Term Average (LTA) for the month. Deviations from mean air temperature for the month ranged from -1.0 °C (12.7 °C mean temperature) at Athenry, Co Galway to -0.1 °C (12.5 °C mean temperature) at Malin Head, Co Donegal. Mean temperatures for the month ranged from 11.7 °C (0.5 °C below its LTA) at Knock Airport, Co Mayo to 13.6 °C (0.9 °C below its LTA) at Shannon Airport, Co Clare. The month's highest temperature was reported at Shannon Airport, Co Clare on the 27th with a temperature of 28.4 °C. The month's lowest air minimum was recorded on the 15th at Markree, Co Sligo with 1.1 °C while the lowest grass minimum was -2.1 °C reported at Dublin Airport on the 7th. There was no air frost reported this month. Less than half of stations reported ground frost. The number of days with ground frost ranged from zero days at a few stations to 5 days at Claremorris, Co Mayo.

## **Sunshine: Sunniest in the South**

Sunshine values were variable across the country. Percentage of monthly sunshine values ranged from 86% (the month's lowest monthly sunshine total of 124.7 hours) at Knock Airport, Co Mayo to 131 % (the month's highest monthly sunshine total of 208.5 hours) at Johnstown Castle\*, Co Wexford. The highest number of daily sunshine hours recorded this month was 15.5 hours at both Dublin Airport\* and Belmullet\*, Co Mayo both on the 27th. The number of dull days<sup>2</sup> ranged from 2 days at both Malin Head, Co Donegal and Belmullet, Co Mayo to 6 days at Cork Airport.

## **Wind: Not significantly strong**

Monthly mean wind speeds ranged from 5.7 knots (10.6 km/h) at Ballyhaise, Co Cavan, Mullingar, Co Westmeath to 13.2 knots (24.5 km/h) at Mace Head, Co Galway. Gales were reported on the 2nd. The number of days with gale force winds ranged from zero days at Dublin (Phoenix Park) to 1 day at both Mace Head, Co Galway and Shannon Airport, Co Clare. There were no strong gales or storms reported this month. Both the month's highest gust and 10-minute mean wind speed was reported at Mace Head, Co Galway on the 2nd. The highest gust was 47 knots (87 km/h) while the month's highest 10-minute mean wind speed was 38 knots (70 km/h).

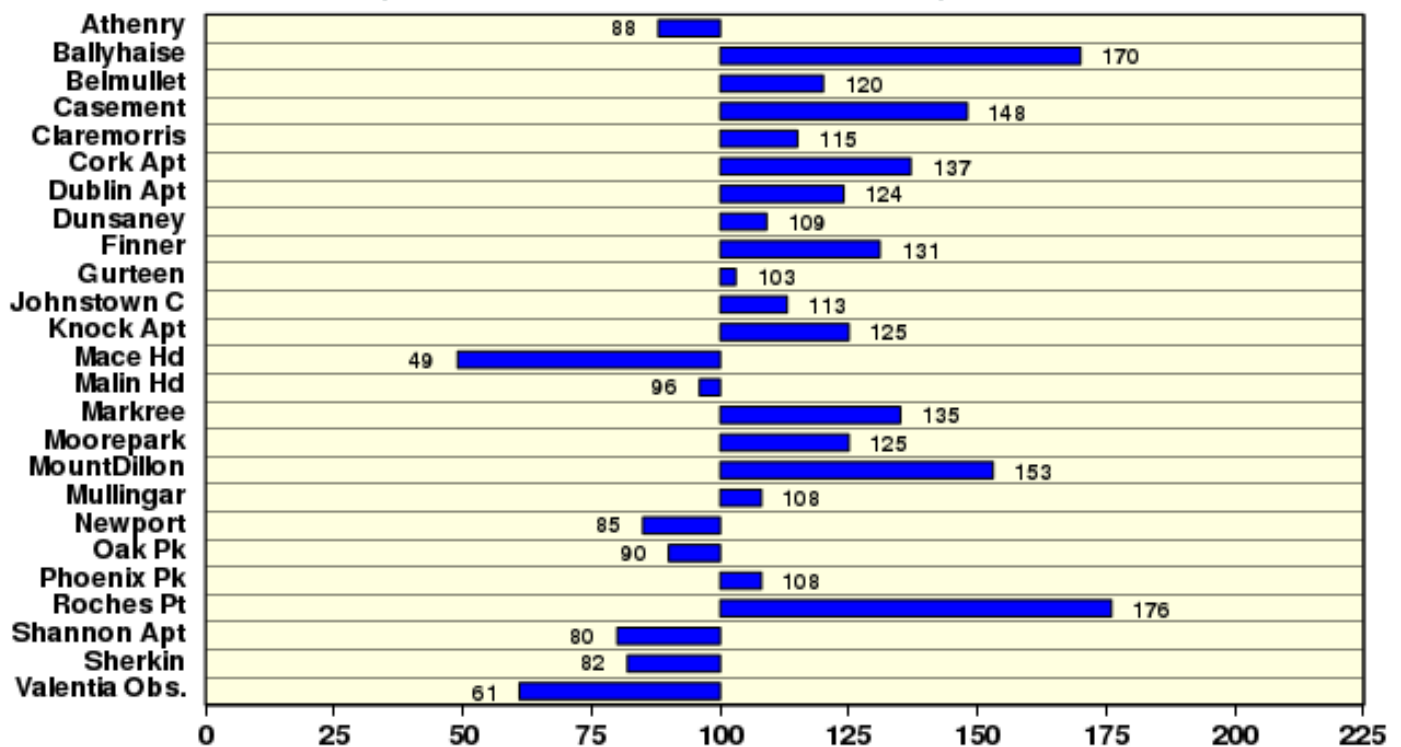
## **EXTREME VALUES AT SYNOPTIC STATIONS**

<b>Rainfall</b>	Highest total: 115.6 mm (170% of its LTA) at Ballyhaise, Co Cavan ( <i>its wettest June since 2012</i> ) Lowest total: 40.3 mm (49% of its LTA) at Mace Head, Co Galway Highest daily rainfall: 39.1 mm at Cork Airport, Co Cork on the 23rd ( <i>its wettest June day since 2008</i> )
<b>Temperature</b>	Highest mean monthly temperature: 13.6°C at Shannon Airport, Co Clare (0.9°C below its LTA) Lowest mean monthly temperature: 11.7°C at Knock Airport, Co Mayo (0.5°C below its LTA) Highest Air temperature: 28.4°C at Shannon Airport, Co Clare on the 27th Lowest air temperature: 1.1°C at Markree, Co Sligo on the 15th Lowest grass minimum: -2.1°C at Dublin Airport, Co Dublin on the 7th
<b>Sunshine</b>	Highest monthly total: 208.5 hrs (daily mean 6.95 hrs/day) at Johnstown Castle*, Co Wexford Lowest monthly total: 124.7 hrs (daily mean 4.16 hrs/day) at Knock Airport, Co Mayo Highest daily sunshine: 15.5 hrs at both Dublin Airport*, Co Dublin on the 27th and Belmullet*, Co Mayo on the 27th

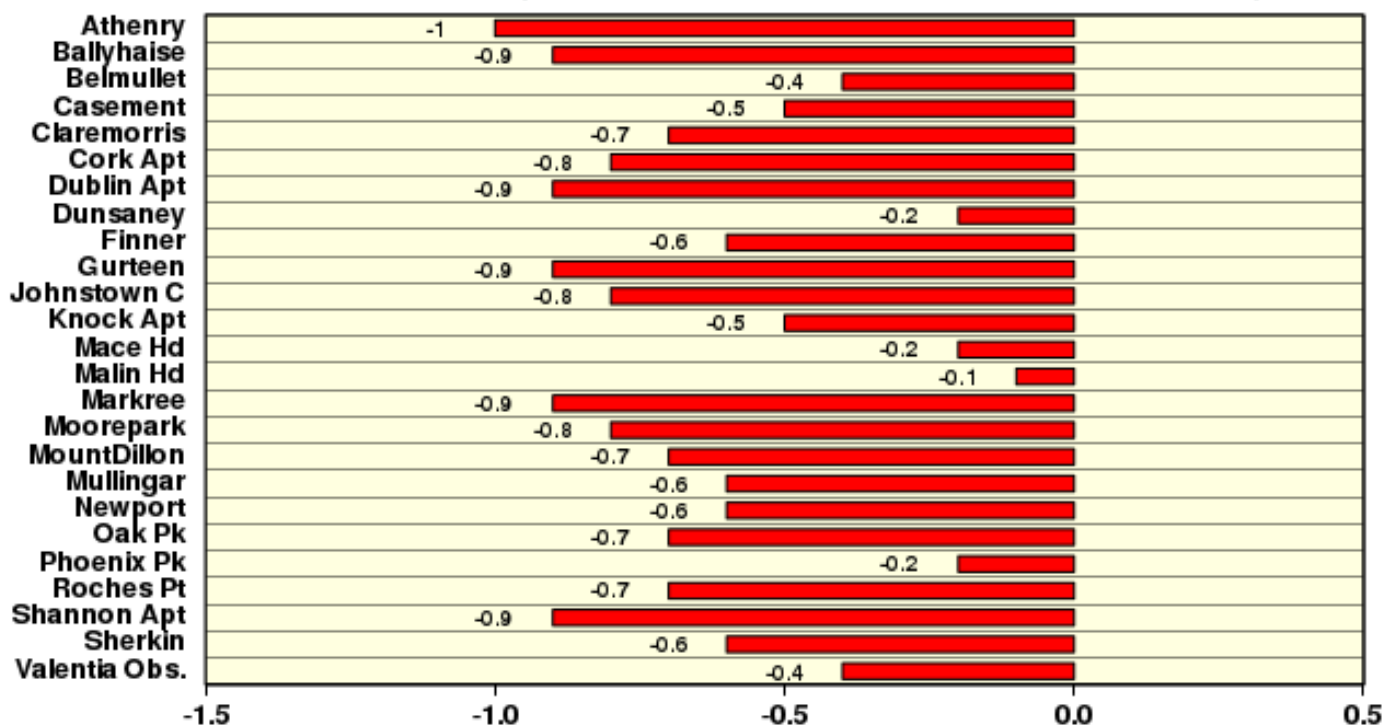
# June 2019

Based on Data from 1-30 June 2019 on whole month basis

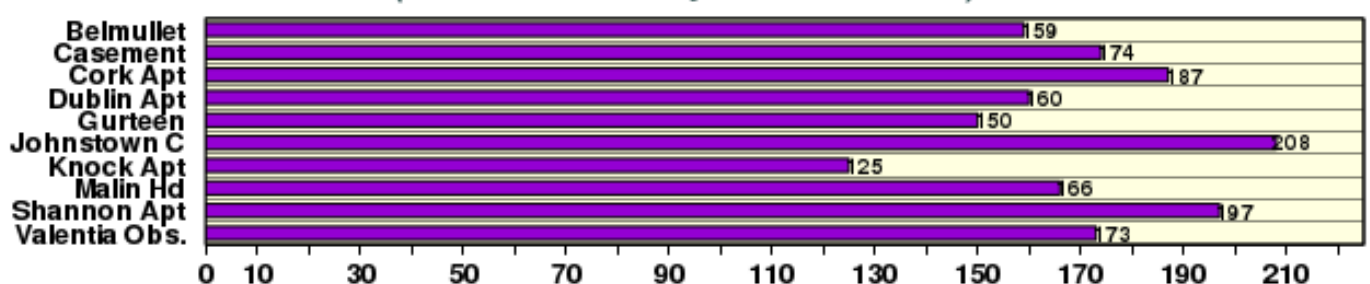
## Rainfall (% of average for period 1981-2010) on whole month basis



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



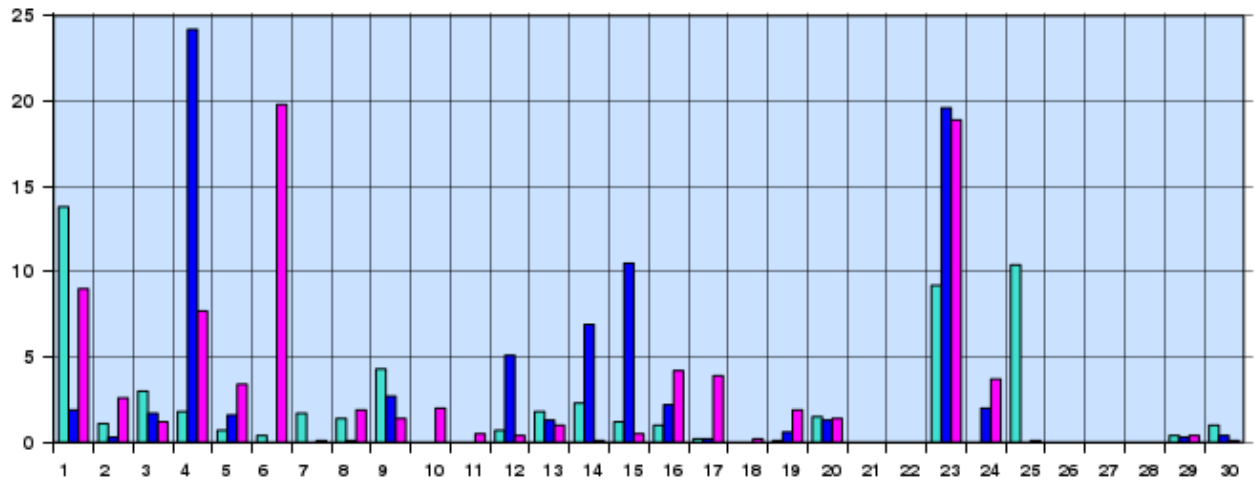
## Sunshine (Number of monthly sunshine hours)



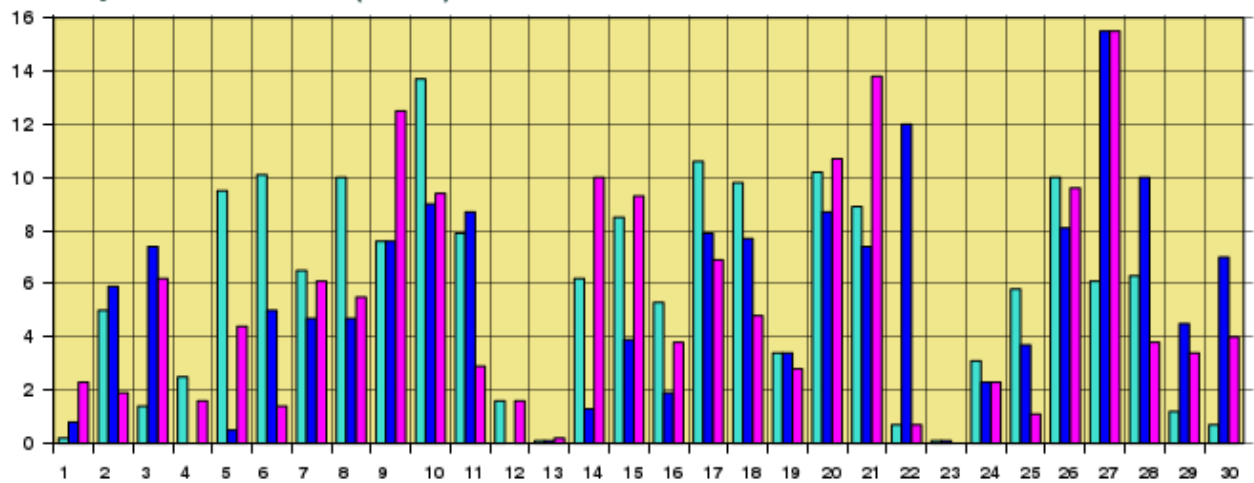
# June 2019 Daily Values at selected synoptic stations

Based on data from 1-30 June 2019 on a pro rata basis

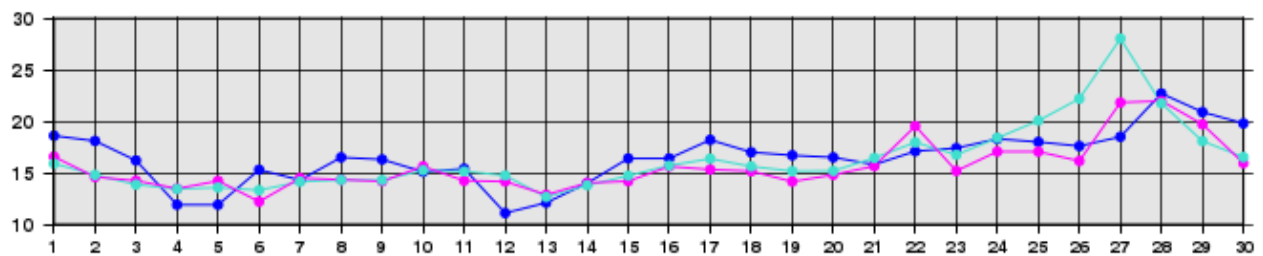
## Daily 00-24h rainfall values(mm)



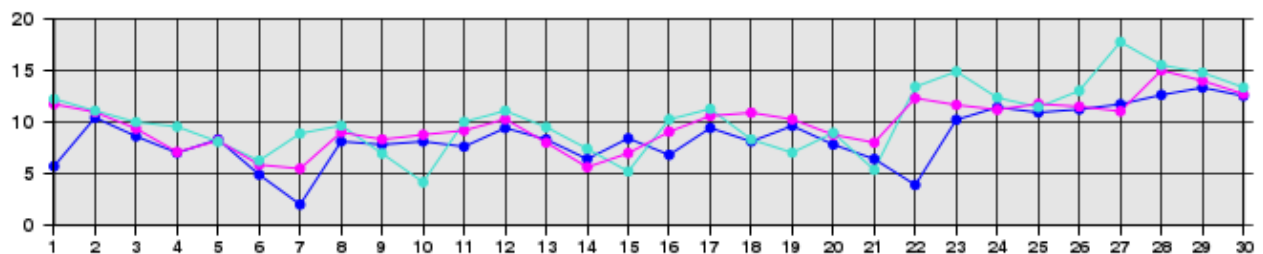
## Daily sunshine values(hours)



## Daily 00-24h maximum temperature (°C)



## Daily 00-24h minimum temperature (°C)



- Valentia Observatory - Dublin Airport - Belmullet

Issued by the Climatology and Observations Division of Met Éireann on Tuesday July 2nd 2019. This report is based on available preliminary data from 25 principal weather stations operated by Met Éireann. Synoptic station data is midnight to midnight UTC. Long-Term Averages (LTAs) and "average" refer to the period 1981-2010. <sup>1</sup> 'Dry spell' is a period of 15 or more consecutive days to none of which is credited 1.0 mm or more of precipitation (i.e. daily tot < 1.0 mm). <sup>2</sup> A wet day is a day with 1.0 mm or more of rainfall. <sup>3</sup> A dull day is a day with less than 0.5 hours of sunshine. <sup>4</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. For more information, contact Met Éireann at 01-8064200 or e-mail: enq@met.ie