



Sep 2019

Mild, wet and sunny

High pressure to the South of Ireland and low pressure to the North kept the first two weeks of September relatively dry. There were some pleasant sunny interludes at times as the high pressure nudged northwards, interspersed with unsettled periods as low pressure systems to the North brought their associated weather fronts across the country from the West, in a mostly westerly airflow. Two settled days on the 13th and 14th were followed by two mostly dull days on the 15th and 16th as a front stalled over the country. High pressure built again from the South, which gave four settled days between the 17th and 20th, where it was mostly sunny, warm and dry by day, but cool at night with some mist and fog. The settled weather broke on the 21st as the high pressure slipped to the East and a moist southerly airflow brought thundery rain up from the South. The end of the month was very unsettled with active low pressure systems and their associated weather fronts crossing the country frequently, giving rain or showers, some heavy, on most days in a westerly or cyclonic airflow.

Rainfall: Above average for most

The majority of monthly rainfall totals were above their Long-Term Average (LTA). Percentage of monthly rainfall values ranged from 79% (monthly rainfall total of 88.6 mm) at Mace Head, Co Galway to 207% (monthly rainfall total of 164.3 mm) at Ballyhaise, Co Cavan. Monthly rainfall totals ranged from 71.5 mm (90% of its LTA) at Moore Park, Co Cork to 185.3 mm (185% of its LTA) at Athenry, Co Galway (*its wettest September since 2006*). The highest daily rainfall total was 48.8 mm at Ballyhaise, Co Cavan on the 22nd Sep (61% of its monthly LTA). The number of rain days ranged from 17 days at both Carlow (Oak Park) and Roche's Point, Co Cork to 25 days at Finner, Co Donegal. The number of wet days¹ ranged from 10 days at both Roche's Point, Co Cork and Johnstown Castle, Co Wexford to 22 days at Markree, Co Sligo. The number of very wet days³ ranged from 1 day at both Markree, Co Sligo and Finner, Co Donegal to 8 days at Newport, Co Mayo.

Temperature: Slightly above average in most places

The majority of mean air temperatures were above their Long-Term Average (LTA) for the month. Deviations from mean air temperature for the month ranged from -0.4 °C (12.8 °C mean temperature) at Athenry, Co Galway to 0.6 °C (13.7 °C mean temperature) at Dublin (Phoenix Park). Mean temperatures for the month ranged from 12.2 °C (0.2 °C above its LTA) at Knock Airport, Co Mayo to 14.5 °C (0.6 °C above its LTA) at Roche's Point, Co Cork. The month's highest temperature was reported at Dublin (Phoenix Park) and Moore Park, Co Cork with a temperature of 22.1 °C on the 3rd and also at Athenry, Co Galway on the 19th. Both the month's lowest air and grass minimum temperature were recorded on the 17th at Mount Dillon, Co Roscommon. The lowest air minimum was 2.0 °C while the lowest grass minimum was -1.5 °C. 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 8 days at Mount Dillon, Co Roscommon.

Sunshine: Sunniest in the South and East

Nearly all available sunshine totals were above their Long-Term Average (LTA). Percentage of monthly sunshine values ranged from 97% (monthly sunshine total of 115.4 hours) at Belmullet*, Co Mayo to 125 % (the month's highest monthly sunshine total of 165.1 hours) at Johnstown Castle*, Co Wexford. Monthly sunshine totals were lowest at Knock Airport, Co Mayo with 107.5 hours (102% of LTA). The highest number of daily sunshine hours recorded this month was 11.9 hours at Johnstown Castle*, Co Wexford on the 14th. The number of dull days² ranged from 1 day at Dublin Airport to 10 days at Valentia Observatory, Co Kerry.

Wind: Gales reported

Monthly mean wind speeds ranged from 5.4 knots (10.0 km/h) at Ballyhaise, Co Cavan and Mullingar, Co Westmeath to 15.0 knots (27.8 km/h) at Mace Head, Co Galway. Gales were reported on the 4th. The number of days with gale force winds ranged from zero days at a few stations to 1 day at Malin Head, Co Donegal. There were no strong gales or storms force winds reported this month. Both the month's highest gust and 10-minute mean wind speed was reported at Malin Head, Co Donegal on the 4th. The highest gust was 50 knots (93 km/h) while the month's highest 10-minute mean wind speed was 40 knots (74 km/h).

EXTREME VALUES AT SYNOPTIC STATIONS

Rainfall

Highest total: 185.3 mm (185% of its LTA) at Athenry, Co Galway (*its wettest September since 2006*)

Lowest total: 71.5 mm (90% of its LTA) at Moore Park, Co Cork

Highest daily rainfall: 48.8 mm at Ballyhaise, Co Cavan on the 22nd (61% of its monthly LTA) (*its wettest September day since 2010*)

Temperature

Highest mean monthly temperature: 14.5°C at Roche's Point, Co Cork (0.6°C above its LTA)

Lowest mean monthly temperature: 12.2°C at Knock Airport, Co Mayo (0.2°C above its LTA)

Highest Air temperature: 22.1°C at Dublin (Phoenix Park) and Moore Park, Co Cork on the 3rd and at Athenry, Co Galway on the 19th

Lowest air temperature: 2.0°C at Mount Dillon, Co Roscommon on the 17th

Lowest grass minimum: -1.5°C at Mount Dillon, Co Roscommon on the 17th

Sunshine

Highest monthly total: 165.1 hrs (daily mean 5.50 hrs/day) at Johnstown Castle*, Co Wexford (*its sunniest August since 2003*)

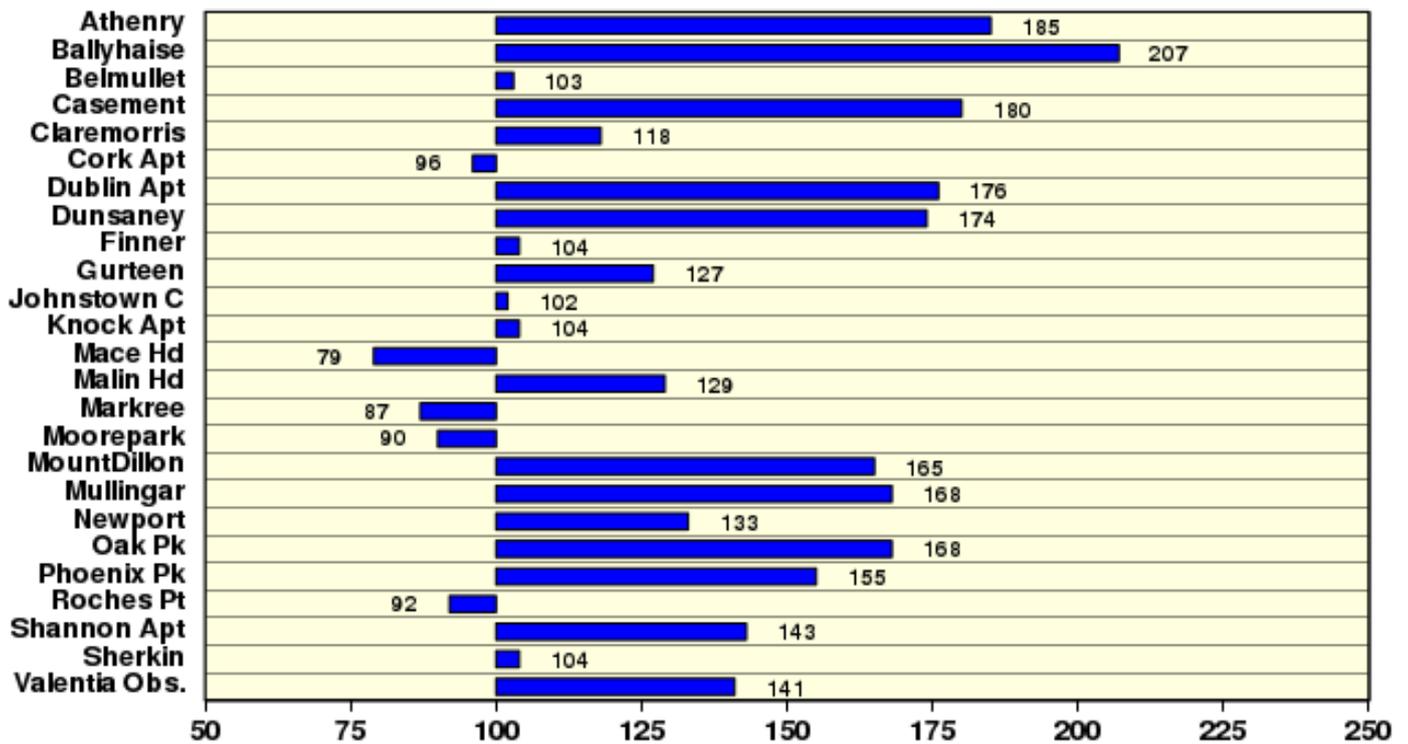
Lowest monthly total: 107.5 hrs (daily mean 3.58 hrs/day) at Knock Airport, Co Mayo

Highest daily sunshine: 11.9 hrs at Knock Airport, Co Mayo on the 14th

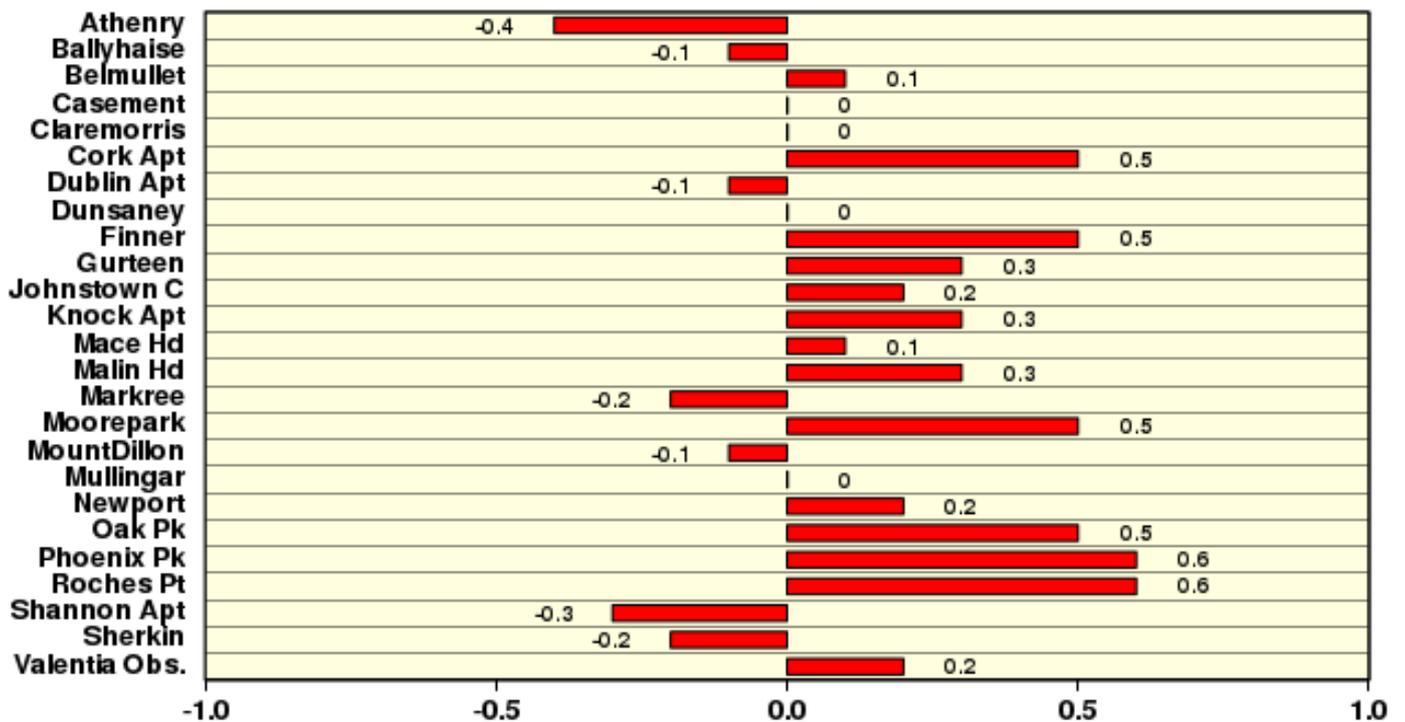
September 2019

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

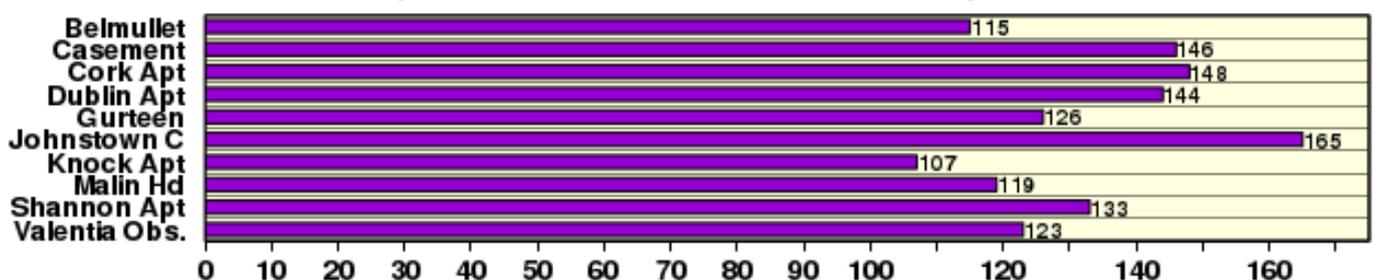
Rainfall (% of average for period 1981-2010) on whole month basis



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



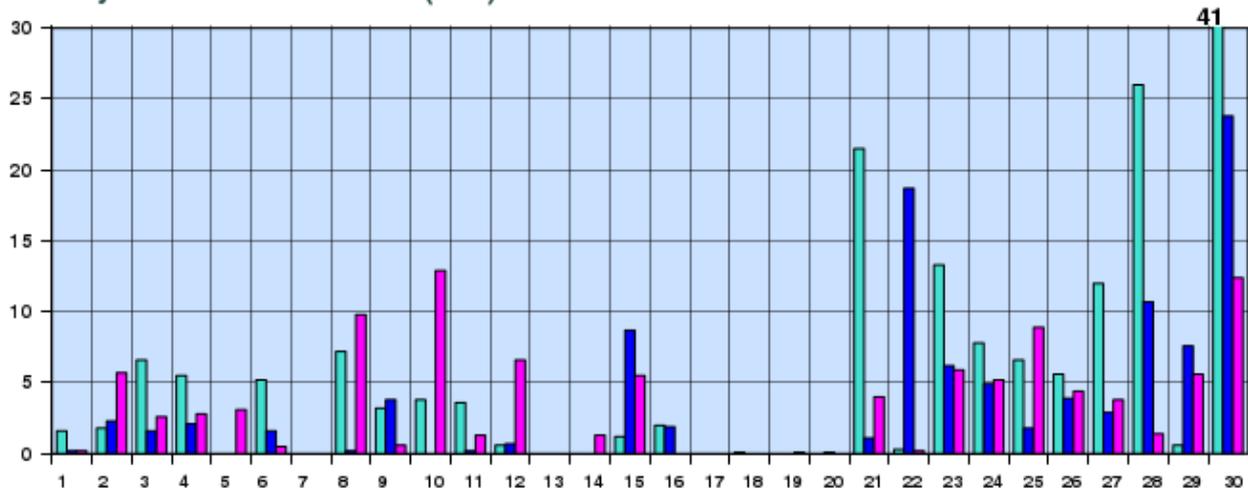
Sunshine (Number of monthly sunshine hours)



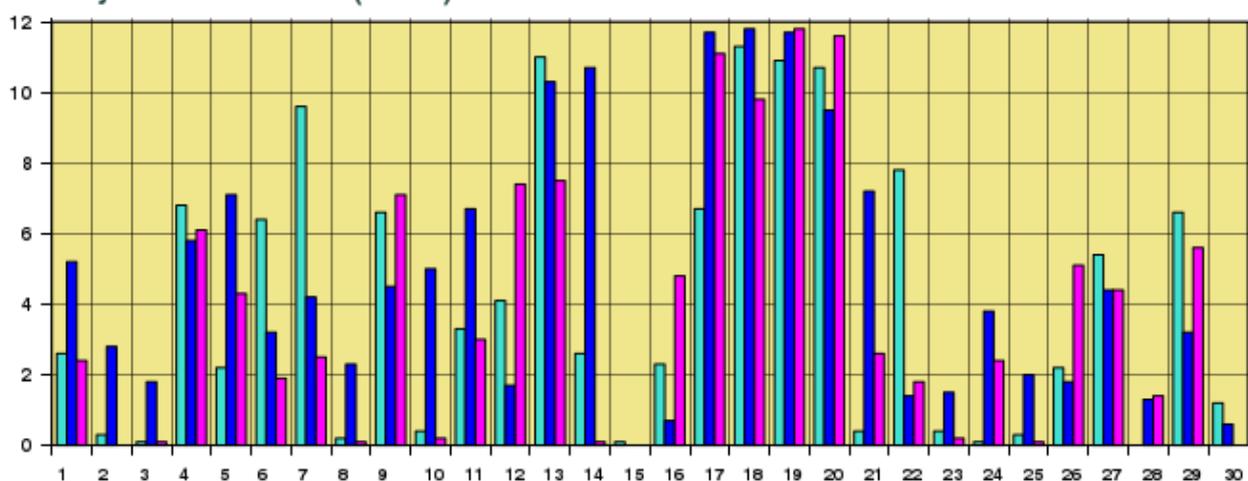
September 2019 Daily Values at selected synoptic stations

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

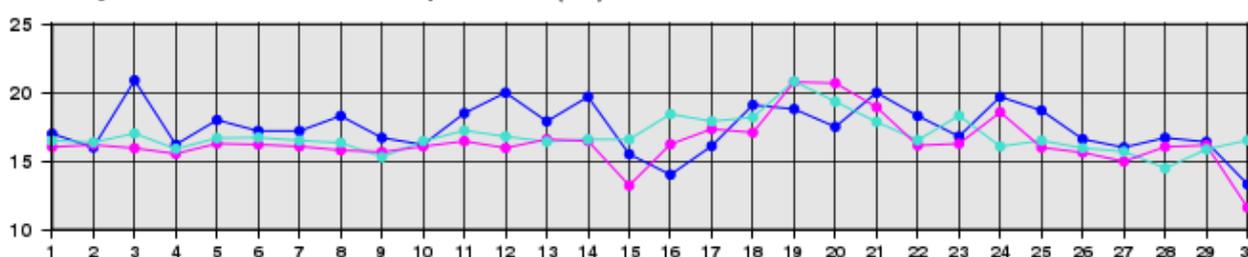
Daily 00-24h rainfall values(mm)



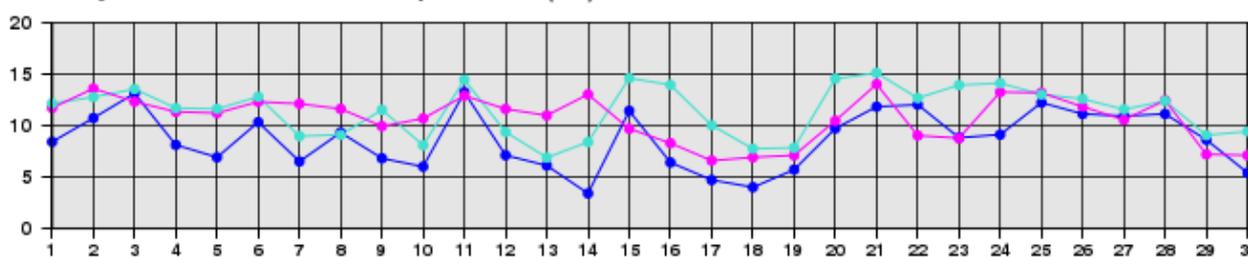
Daily sunshine values(hours)



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 Wednesday October 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. ¹ '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). ² A wet day is a day with 1.0 mm or more of rainfall. ³ A dull day is a day with less than 0.5 hours of sunshine. ⁴ 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