



Aug 2019

Mild and Unsettled

After a few dry days at the beginning of August, most of the first three weeks of the month were unsettled with low-pressure located over or nearby Ireland. On the 3rd a low-pressure system and its associated weather fronts moved across the country from the west and dominated for the rest of the first week giving some heavy and occasionally thundery falls of rain or showers. The second week began with a deep area of low pressure, which developed in the sub-tropical Atlantic, moving across the country from the southwest. This gave some very heavy rain or showers with gusty winds for many between the 8th and 10th, with some thunderstorm activity embedded, causing flooding in places. It remained unsettled with periods of rain or showers each day in a mostly westerly airflow for the rest of the second and all of the third week. At the beginning of the fourth week, high pressure developed over mainland Europe and gave us some warm settled weather in a southerly airflow up to the 26th, especially in the Eastern half of the country. A stalled front kept it wet at times in the West. Weather fronts encroached again from the west on the 27th and the remainder of the month reverted to an unsettled pattern with low pressure dominating again, giving some heavy prolonged rain on the 30th in the West and Northwest causing some flooding in places.

Rainfall: Above average almost everywhere

The majority of monthly rainfall totals were above their Long-Term Average (LTA). Percentage of monthly rainfall values ranged from 94% (the month's lowest monthly rainfall total of 68.7 mm) at Dublin (Phoenix Park) to 276 % (the month's highest monthly rainfall total of 297.3 mm) at Athenry, Co Galway. The highest daily rainfall total was 48.7 mm at Newport, Co Mayo on the 30th (*its wettest August day since 1998*). The number of rain days ranged from 18 days at Dublin (Phoenix Park) to 27 days at a few stations. The number of wet days¹ ranged from 12 days at Roche's Point, Co Cork to 26 days at a few stations. The number of very wet days³ ranged from 1 day at Dublin (Phoenix Park) to 11 days at Athenry, Co Galway.

Temperature: Above average in most places

Nearly all mean air temperatures were above their Long-Term Average (LTA) for the month. Deviations from mean air temperature for the month ranged from -0.3 °C at Athenry, Co Galway (14.9 °C mean temperature) and Sherkin Island, Co Cork (15.5 °C mean temperature) to 1.1 °C (16.2 °C the month's highest mean temperature) at Dublin (Phoenix Park) (*its warmest August since 2004*). Mean temperatures for the month were lowest at Knock Airport, Co Mayo with 14.1 °C (0.4 °C above its LTA). The month's lowest temperatures were recorded on the 13th with the lowest air minimum reported at Claremorris, Co Mayo with a temperature of 4.6 °C and the lowest grass minimum reported at Dunsany, Co Meath with 0.5 °C. The highest maximum was reported on the 2nd at Mount Dillon, Co Roscommon with a temperature of 25.4 °C. There was no air or ground frost reported this month.

Sunshine: Sunniest in the East

Nearly all available sunshine totals were above their Long-Term Average (LTA). Percentage of monthly sunshine values ranged from 85% (monthly sunshine total of 105.1 hours) at Knock Airport, Co Mayo to 127% (the month's highest monthly sunshine total of 190.6 hours) at Casement Aerodrome, Co Dublin. Monthly sunshine totals were lowest at Valentia Observatory*, Co Kerry with 94.0 hours (68% of LTA). The highest number of daily sunshine hours recorded this month was 14.0 hours at Malin Head, Co Donegal on the 1st. The number of dull days² ranged from 1 day at Casement Aerodrome, Co Dublin to 8 days at Valentia Observatory, Co Kerry.

Wind: Gales reported

Monthly mean wind speeds ranged from 6.1 knots (11.3 km/h) at Ballyhaise, Co Cavan, Mullingar, Co Westmeath to 16.0 knots (29.6 km/h) at Mace Head, Co Galway. Gales were reported on the 14th, 16th and 21st with strong gales reported on the 9th. The number of days with gales ranged from zero days at a few stations to 3 days at Mace Head, Co Galway. The number of days with strong gales ranged from zero days at most stations to 1 day at Malin Head, Co Donegal. Both the month's highest gust and 10-minute mean wind speed was reported at Malin Head, Co Donegal on the 9th. The highest gust was 49 knots (91 km/h) while the month's highest 10-minute mean wind speed was 42 knots (78 km/h). The last time in August where the 10-minute mean wind speed reached 42 knots was August 27th 2009.

Other elements : Lightning

A notable number of lightning strikes were detected on six days during August 2019, on the 4th, 5th, 8th, 9th, 10th and 12th.

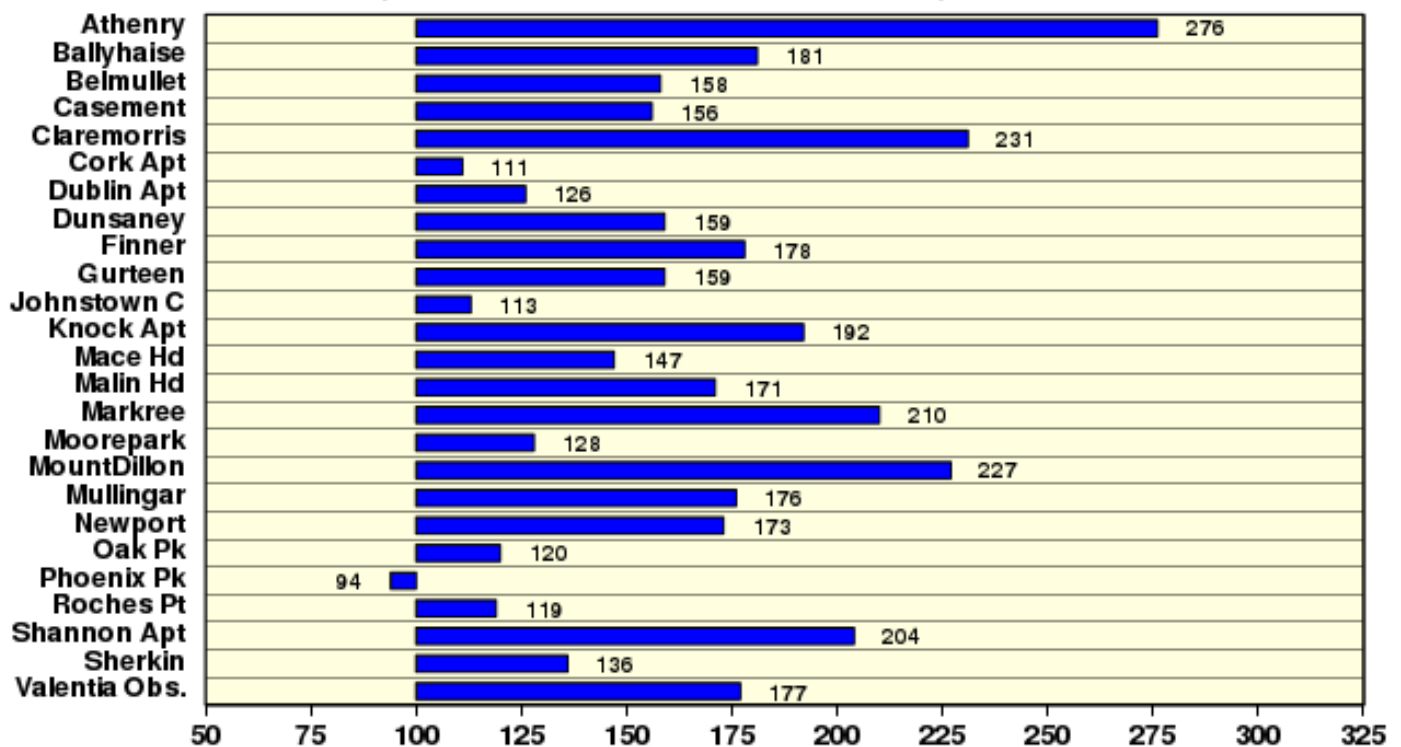
EXTREME VALUES AT SYNOPTIC STATIONS

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|--------------------|--|
| Rainfall | Highest total: 297.3 mm (276% of its LTA) at Athenry, Co Galway Lowest total: 68.7 mm (94% of its LTA) at Dublin (Phoenix Park) Highest daily rainfall: 48.7 mm at Newport, Co Mayo on the 30th (<i>its wettest August day since 1998</i>) |
| Temperature | Highest mean monthly temperature: 16.2°C at Dublin (Phoenix Park) (1.1°C above its LTA) (<i>its warmest August since 2004</i>) Lowest mean monthly temperature: 14.1°C at Knock Airport, Co Mayo (0.4°C above its LTA) Highest Air temperature: 25.4°C at Mount Dillon, Co Roscommon on the 2nd Lowest air temperature: 4.6°C at Claremorris, Co Mayo on the 13th Lowest grass minimum: 0.5°C at Dunsany, Co Meath on the 13th |
| Sunshine | Highest monthly total: 190.6 hrs (daily mean 6.15 hrs/day) at Casement, Co Dublin (<i>its sunniest August since 2003</i>) Lowest monthly total: 94.0 hrs (daily mean 3.03 hrs/day) at Valentia Observatory*, Co Kerry Highest daily sunshine: 14.0 hrs at Malin Head*, Co Donegal on the 1st |

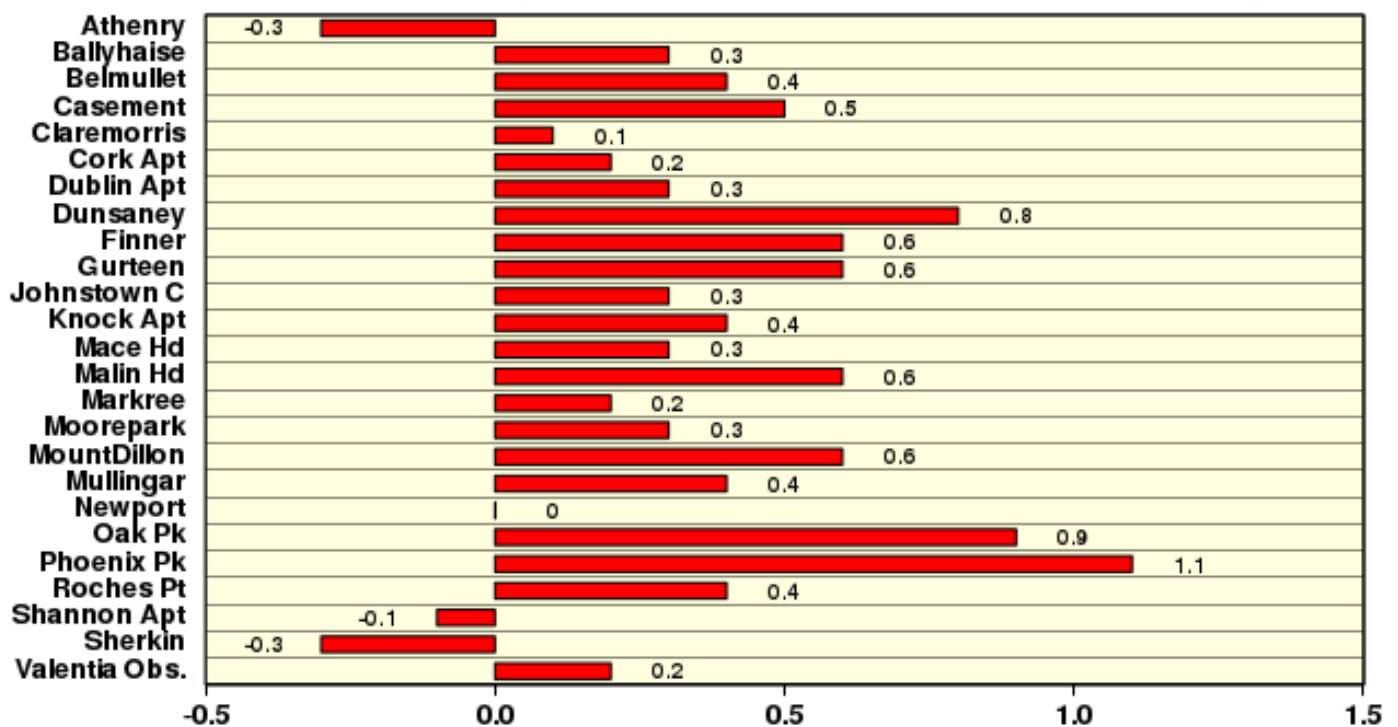
August 2019

Based on Data from 1-31 August 2019 on whole month basis

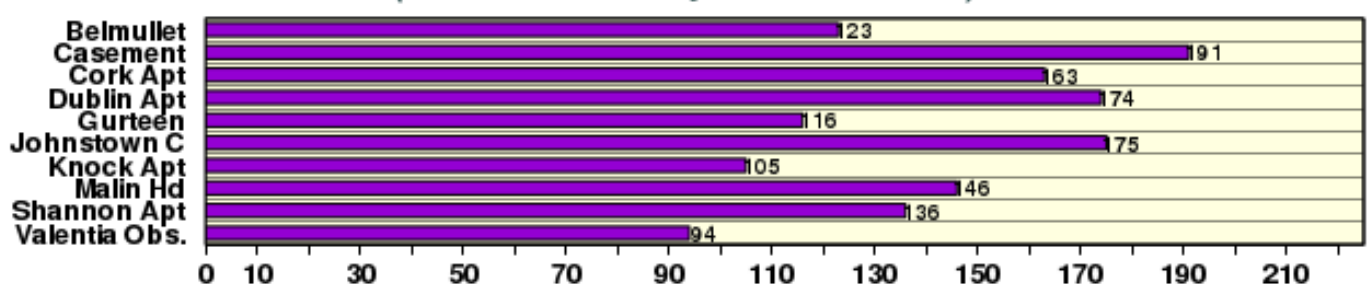
Rainfall (% of average for period 1981-2010) on whole month basis



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



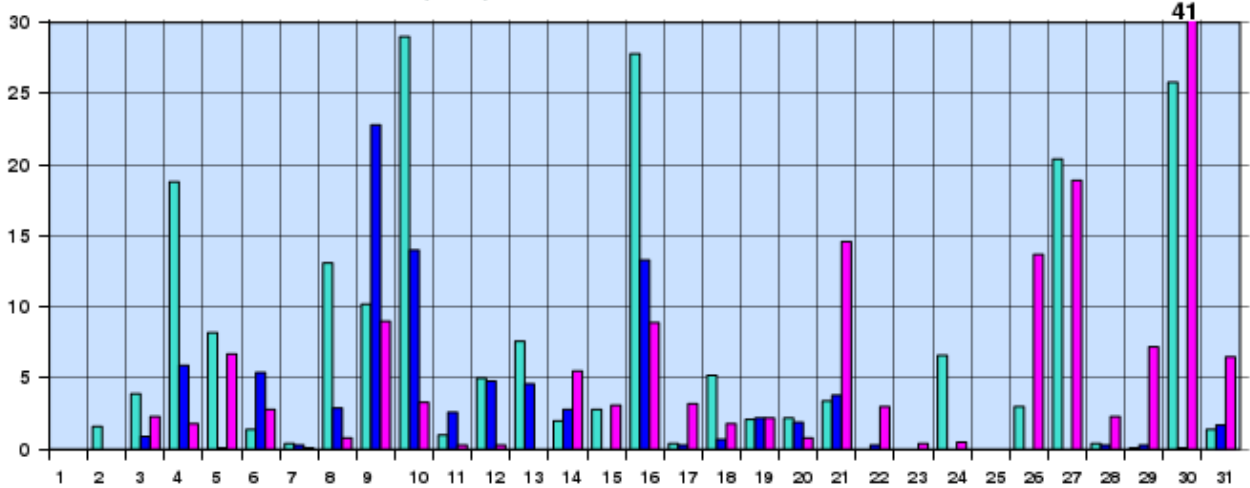
Sunshine (Number of monthly sunshine hours)



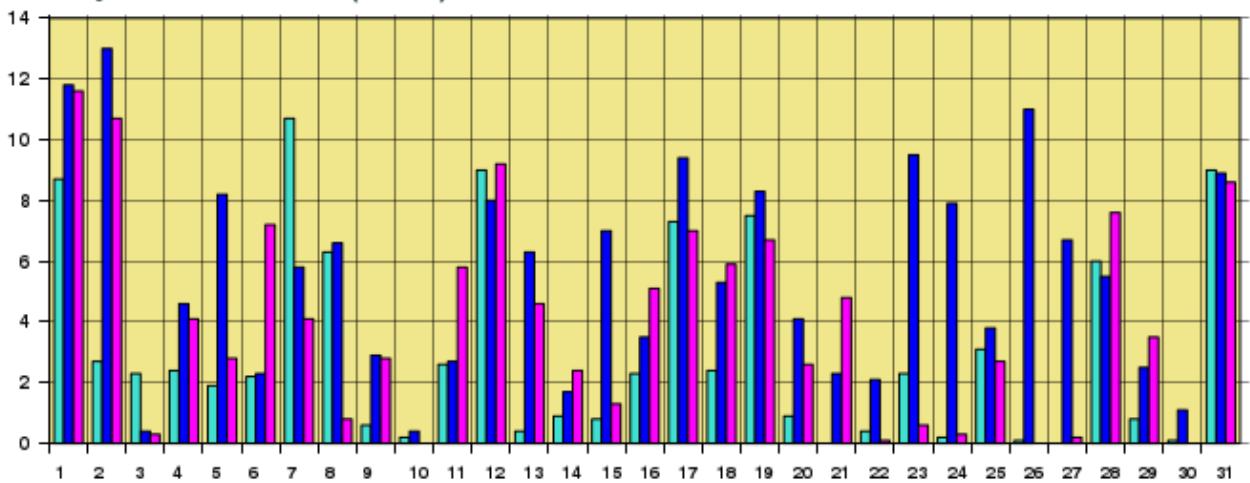
August 2019 Daily Values at selected synoptic stations

Based on data from 1-31 August 2019 on a pro rata basis

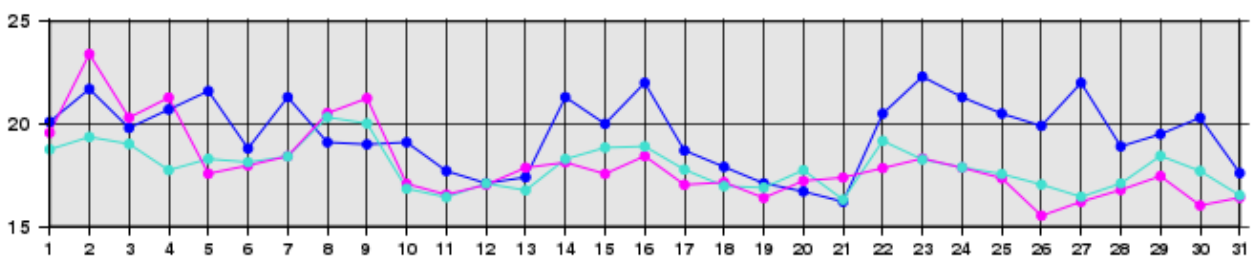
Daily 00-24h rainfall values(mm)



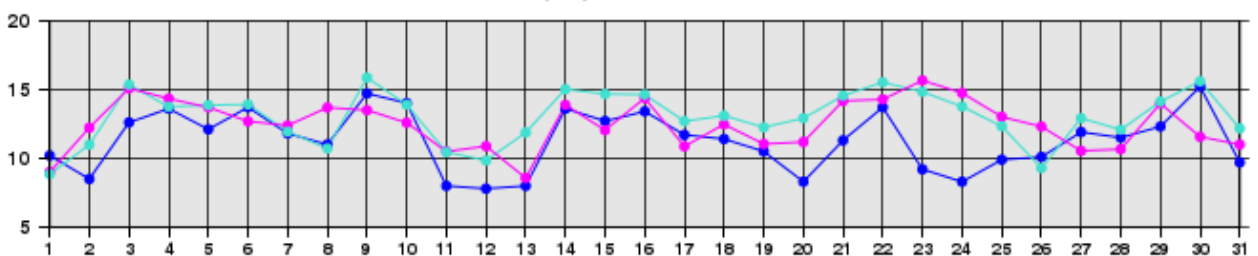
Daily sunshine values(hours)



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 September 3rd 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. ¹Dry spell¹ 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). ²A wet day is a day with 1.0 mm or more of rainfall. ³A dull day is a day with less than 0.5 hours of sunshine. ⁴A 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