



September 2025

Cool and wet everywhere

September 2025 was relatively cool and wet overall with Atlantic low pressure dominating. Ireland was often situated on the colder northern side of the jet stream in Polar maritime or returning Polar maritime air masses. The first third of the month saw a mobile Atlantic setup with low pressure, mostly situated to the north and west, steering several weather fronts across the country. This brought scattered outbreaks of rain or showers on most days, sometimes heavy and thundery, interspersed with drier periods. The second third of the month continued in a similar vein with Atlantic low pressure systems to the north and west dominating. Several active weather fronts crossed the country bringing spells of rain, heaviest in the West, interspersed with heavy and sometimes thundery showers. The final third of the month was drier. High pressure moved in from the west, preceded by a cool northerly wind. The high pressure system slowly moved from west to east and brought several mostly dry days with plenty of sunshine. The drier spell ended on Monday 27th as a frontal trough gradually pushed in from the west bringing a band of rain across the country. Pressure remained high for the following few days before Atlantic low pressure took control once again at the end of the month bringing further rain or showers.

Rainfall: Above average everywhere, wettest in the Southwest, Northwest and Southeast

September 2025 rainfall totals were above their monthly 1991-2020 Long-Term Average (LTA). Percentage of monthly rainfall values ranged from 106% (77.7 mm) at Dunsany, Co Meath to 191% (161.3 mm) at Johnstown Castle, Co Wexford. Monthly rainfall totals ranged from 73.7 mm (120% of its LTA) at Casement Aerodrome, Co Dublin to 218.0 mm (168% of its LTA) at Valentia Observatory, Co Kerry (*its wettest September since 2006*). The highest daily rainfall total was 31.0 mm at Johnstown Castle, Co Wexford on Friday 19th. The number of rain days⁰ ranged from 19 days at Roches Point, Co Cork to 25 days at both Newport, Co Mayo and Knock Airport, Co Mayo. The number of wet days¹ ranged from 14 days at Dublin Airport, Co Dublin to 23 days at both Newport, Co Mayo and Valentia Observatory, Co Kerry. The number of very wet days³ ranged from 1 day at a few stations to 10 days at Newport, Co Mayo. There were up to six consecutive dry days, that is when no more than 0.0 mm of rain fell any day, at Roches Point (coastal), Co Cork and Mount Dillon, Co Roscommon between Sunday 21st and Friday 26th inclusive.

Temperature: Below average everywhere

All mean air temperatures across the country were below their LTA for the month. Deviations from mean air temperature ranged from -0.8 °C (12.5 °C) at Cork Airport, Co Cork to -0.1 °C at Malin Head, Co Donegal (13.2 °C) and Mace Head, Co Galway (13.8 °C). Mean temperatures ranged from 11.7 °C (0.4 °C below its LTA) at Knock Airport, Co Mayo to 13.9 °C (0.3 °C below its LTA) at Sherkin Island, Co Cork. The month's highest temperature was reported at both Oak Park, Co Carlow on Wednesday 17th and Shannon Airport, Co Clare on Tuesday 9th with a temperature of 20.9 °C. Both the month's lowest air and grass minimum temperatures were recorded on Monday 22nd at Mount Dillon, Co Roscommon. The lowest air minimum was -0.6 °C while the lowest grass minimum was -4.4 °C. More than half of stations reported ground frost. The number of days with ground frost ranged from zero days at a few stations to 7 days at Oak Park, Co Carlow. One station, Mount Dillon, Co Roscommon, reported air frost on one day during the month (*Monday 22nd*). It was the coolest September since 2018 at thirteen stations.

Sunshine: Generally above average, sunniest in the South

All available sunshine totals were above their LTA. Percentage of monthly sunshine values ranged from 109% (137.4 hours) at Casement Aerodrome, Co Dublin to 127% (150.6 hours) at Shannon Airport, Co Clare. Monthly sunshine totals ranged from 112.4 hours (no LTA comparison*) at Valentia Observatory, Co Kerry to 160.8 hours (no LTA comparison*) at Cork Airport, Co Cork. The highest number of daily sunshine hours recorded this month was 11.1 hours at Johnstown Castle, Co Wexford on Monday 22nd. The number of dull days² ranged from 2 days at both Shannon Airport, Co Clare and Dublin Airport, Co Dublin to 7 days at Valentia Observatory, Co Kerry.

Wind: Strong gales reported

Monthly mean wind speeds ranged from 5.7 knots (10.6 km/h) at Moore Park, Co Cork and Mount Dillon, Co Roscommon to 17.2 knots (31.9 km/h) at Mace Head, Co Galway. Gales were reported at six stations through the month. Gales were reported on Wednesday 10th, Friday 12th, Sunday 14th, Monday 15th and Saturday 20th. Strong gale force winds were reported on Sunday 14th and Monday 15th at Mace Head, Co Galway. The number of days with gales ranged from zero days at a most stations to 4 days at Mace Head, Co Galway. The number of days with up to strong gales ranged from zero days at most stations to 2 days at Mace Head, Co Galway. Both the month's highest gust and 10-minute mean wind speed was reported at Mace Head, Co Galway on Monday 15th. The highest gust was 59 knots (109 km/h) while the month's highest 10-minute mean wind speed was 46 knots (85 km/h).

EXTREME VALUES AT SYNOPTIC STATIONS

Rainfall

Highest monthly total: 218.0 mm at Valentia Observatory, Co Kerry (168% of its LTA) (*its wettest September since 2006*)
Lowest monthly total: 73.7 mm at Casement Aerodrome, Co Dublin (120% of its LTA)
Highest daily rainfall: 31.0 mm at Johnstown Castle, Co Wexford (37% of its monthly LTA) on Fri 19th

Temperature

Highest mean monthly temperature: 13.9°C at Sherkin Island, Co Cork (0.3°C below its LTA)
Lowest mean monthly temperature: 11.7°C at Knock Airport, Co Mayo (0.4°C below its LTA)
Highest air temperature: 20.9°C at both Shannon Airport, Co Clare (3.2°C above its LTA) on Tue 9th and Oak Park, Co Carlow (3.1°C above its LTA) on Wed 17th (*both their lowest max for September since 2015*)
Lowest air temperature: -0.6 °C at Mount Dillon, Co Roscommon (8.4°C below its LTA) on Mon 22nd
Lowest grass minimum: -4.4°C at Mount Dillon, Co Roscommon on Mon 22nd

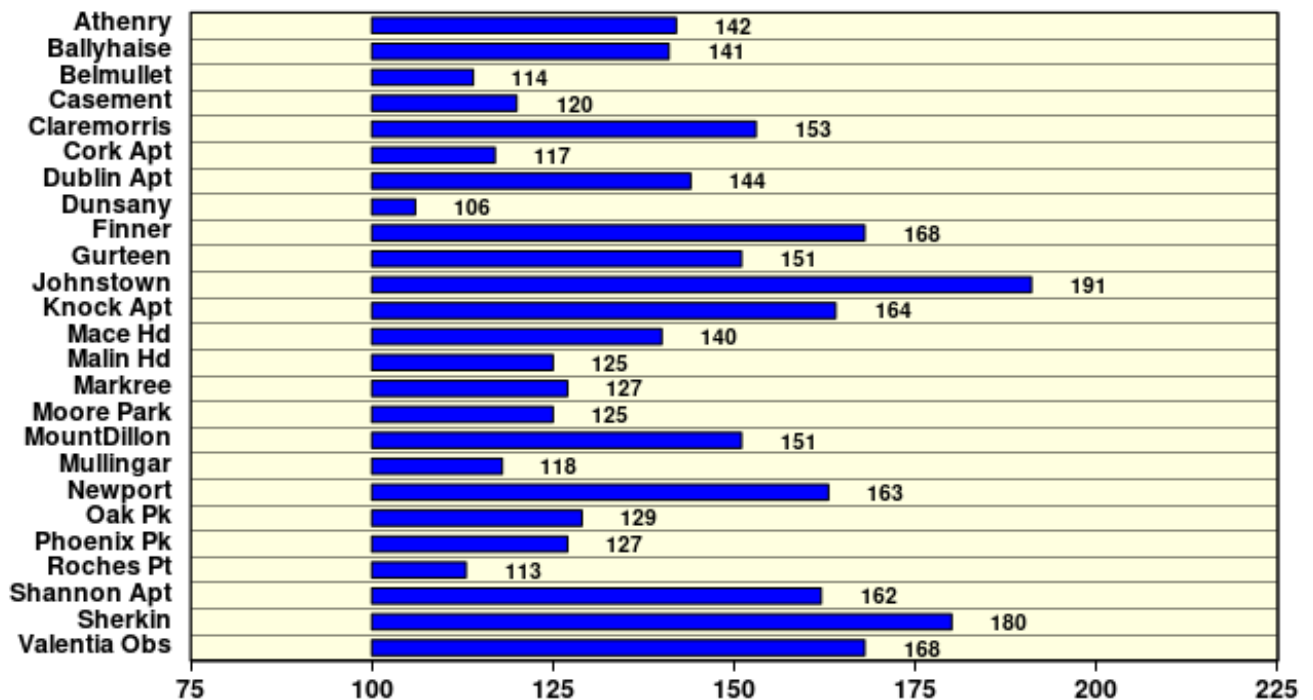
Sunshine

Highest monthly total: 160.8 hours (daily mean 5.36 hrs/day) at Cork Airport, Co Cork
Lowest monthly total: 112.4 hours (daily mean 3.75 hrs/day) at Valentia Observatory, Co Kerry
Highest daily sunshine: 11.1 hours at Johnstown Castle, Co Wexford on Mon 22nd

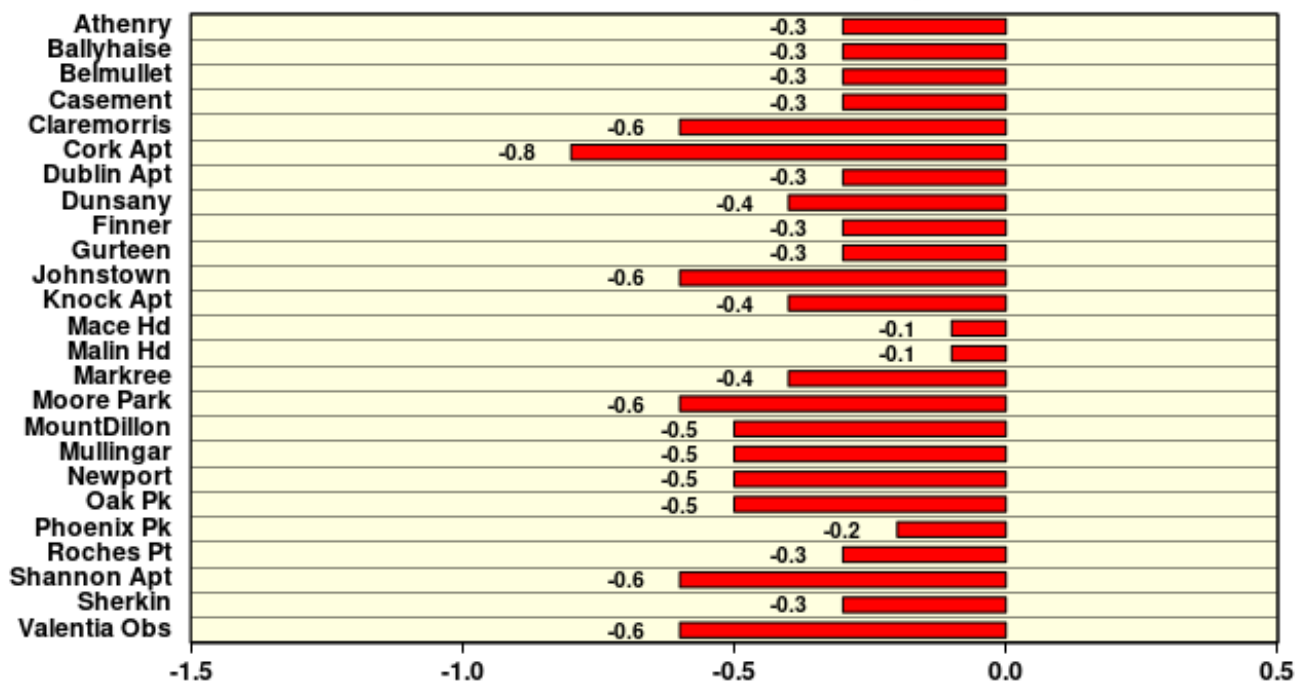
September 2025

Based on Data from 1- 30 September 2025 on whole month basis

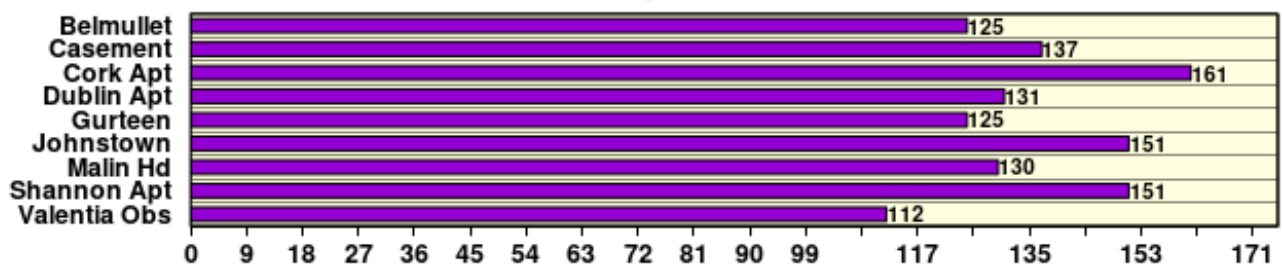
Rainfall (% of average for period 1991-2020) on whole month basis



Temperature (°C)(difference from average for period 1991-2020)



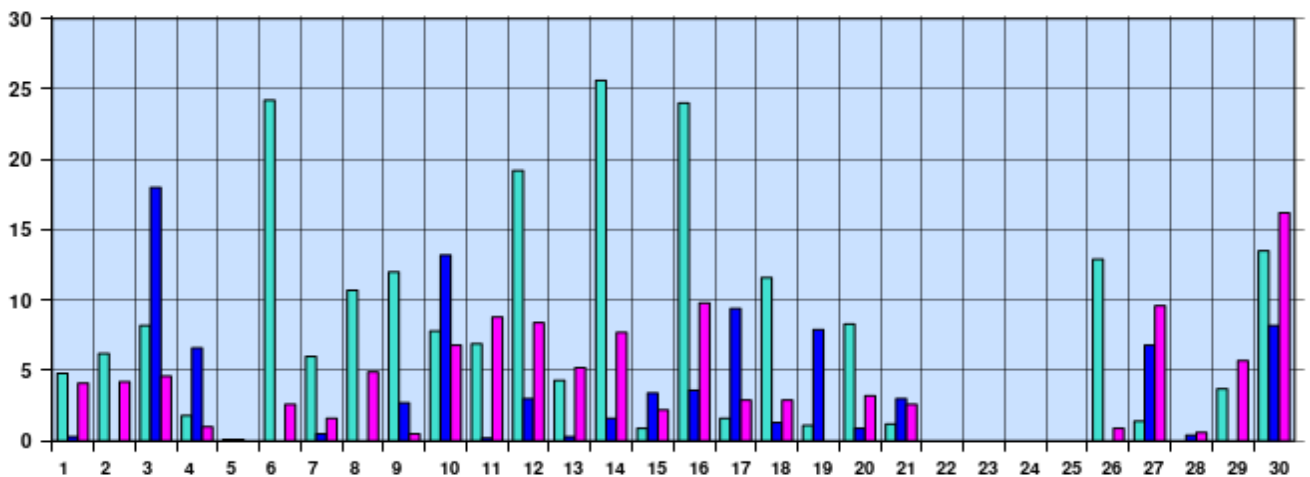
Sunshine (Number of monthly sunshine hours)



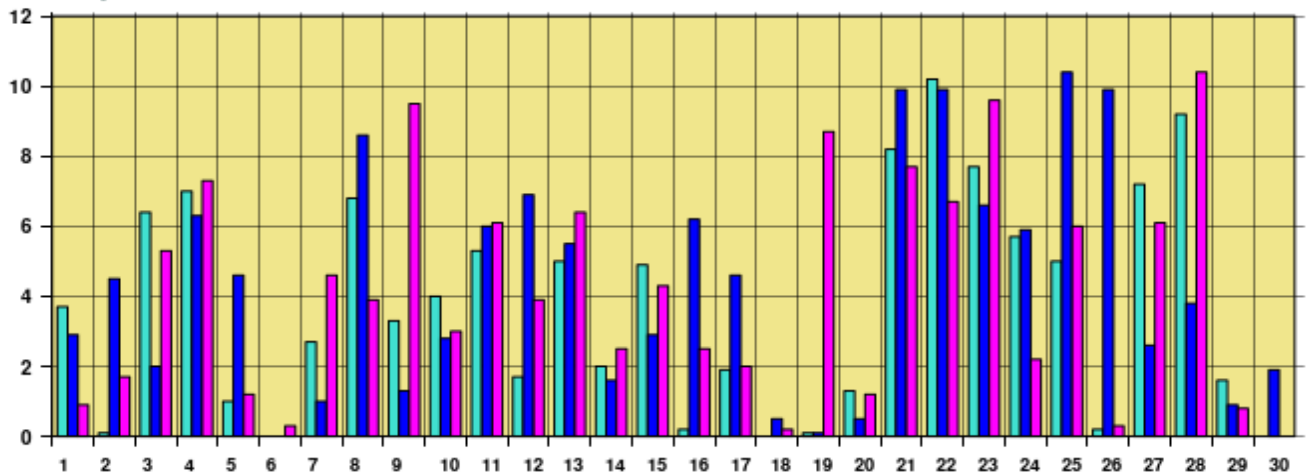
September 2025 Daily Values at Selected Synoptic Stations

Based on data from 1- 30 September 2025 on a pro rata basis

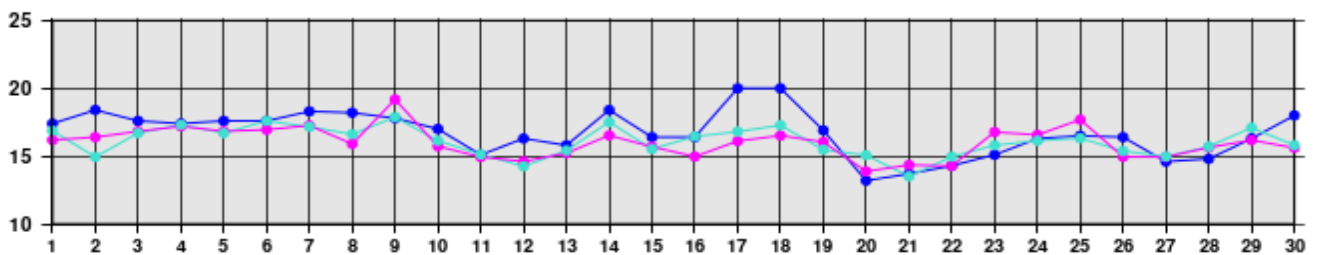
Daily 00-24h rainfall values (mm)



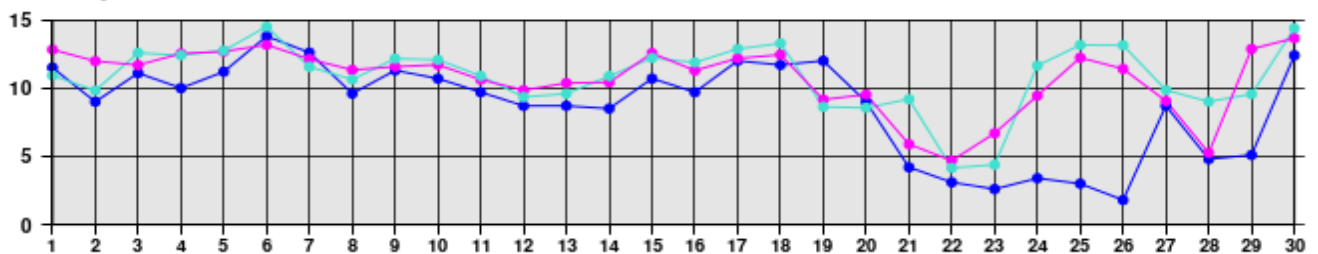
Daily sunshine values (hours)



Daily 00-24h maximum temperature (°C)



Daily 00-24h minimum temperature (°C)



- Valentia Observatory - Dublin Airport - Belmullet

Issued by Met Éireann on Thursday 2nd October 2025. This report is based on available preliminary data from 25 principal weather stations operated by Met Éireann. Synoptic station data is daily, which is midnight to midnight UTC. Long-Term Averages (LTAs) and "average" refer to the period 1991-2020. ¹ A rain day is a day with 0.2 mm or more of rainfall. 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. ⁵ An absolute drought is a period of 15 or more consecutive days to none of which is credited 0.2 mm or more of precipitation. ⁶ A partial drought is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm. ⁷ A 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). ⁸ A heatwave occurs where there are 5 consecutive days or more with maximum temperature over 25°C (that is, a daily maximum screen air temperature > 25°C). ⁹ An icing day is when the daily maximum air temperature stays below 0 °C (measured from 09-09 UTC or 00-00 UTC). *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