



Summer 2022

(June, July & August)

Dry and warm, sunny in the South and East

Summer 2022 is the fifth consecutive season where every synoptic station recorded above average mean temperatures. New high maximum daily temperature records were set for July and August, which were also very dry months, following a wetter than average June. It was sunny in the South and East and dull in the North and Northwest. June was a relatively mild, Atlantic dominated month, with the airflow mostly between southerly and westerly. This kept it wetter, cooler and cloudier in the West and drier, warmer and sunnier in the East. July and August saw the Azores high pressure building up over Ireland and the UK from the south-southeast between Sunday 17th and Tuesday 19th of July, which brought record high maximum daily temperatures at nine synoptic stations including a new all-time record maximum daily temperature for July. Heatwave conditions in August between Tuesday 9th and Sunday 14th saw another record-breaking spell, with eleven synoptic stations breaking their August maximum daily temperature records including a new all-time record maximum daily temperature for August.

Rainfall: Below average everywhere, driest in the South and East

All seasonal rainfall totals across the country were below their 1981-2010 Long-Term Average (LTA) for summer. Percentage of seasonal rainfall values ranged from 49% (seasonal rainfall total of 126.4 mm) at Cork Airport, Co Cork to 96% (the season's highest seasonal rainfall total of 311.3 mm) at Newport, Co Mayo. Seasonal rainfall totals were lowest at Dublin Airport, Co Dublin with 108.4 mm (percentage of LTA 55%). The season's wettest day was also recorded at Newport, Co Mayo with 47.5 mm on Monday 1st Aug. The number of rain days ranged from 27 days at Oak Park, Co Carlow to 62 days at Malin Head, Co Donegal. The number of wet days¹ ranged from 19 days at Oak Park, Co Carlow to 40 days at Newport, Co Mayo. The number of very wet days³ ranged from 1 day at Phoenix Park, Co Dublin to 9 days at a few stations. Six stations had dry spells⁶ between 2nd and 22nd July lasting between 17 and 21 days and two stations had dry spells⁶ between 3rd and 19th August (*more details on the dry spells in the [monthly climate statements](#)*).

Temperature: Above average everywhere, with ten stations breaking their all-time maximum daily temperature records

All mean air temperatures across the country were above their LTA for the season. Deviations from mean air temperature ranged from 0.2 °C (14.5 °C mean temperature) at Markree, Co Sligo to 1.3 °C (16.1 °C the season's highest mean temperature) at Phoenix Park, Co Dublin. Mean temperatures for the season were lowest at Knock Airport, Co Mayo with 14.1 °C (difference from LTA 0.8 °C). The season's lowest temperatures were recorded on Thursday 2nd June. The lowest air minimum reported at Mount Dillon, Co Roscommon with a temperature of 2.1 °C and the lowest grass minimum was reported at Dublin Airport, Co Dublin with -2.1 °C. The highest maximum was reported on Monday 18th Jul at Phoenix Park, Co Dublin with a temperature of 33.0 °C (*the station's highest daily maximum temperature ever recorded from records going back to 1881 and the second highest temperature ever recorded in Ireland*). There was no air frost reported this season. 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 Mount Dillon, Co Roscommon. Heatwaves⁷ were reported at seven synoptic stations between Tuesday 9th and Sunday 14th August lasting between 5 and 6 days. Ten stations broke their all-time maximum daily temperature records. These were Phoenix Park, Co Dublin with 33.0 °C (record length 141 years), Casement Aerodrome, Co Dublin with 31.9 °C (length 58 years), Mount Dillon, Co Roscommon with 31.4 °C (length 14 years), Gurteen, Co Tipperary with 31.0 °C (length 14 years), Ballyhaise, Co Cavan with 30.8 °C (length 17 years), Moore Park, Co Cork with 30.6 °C (length 35 years) (*in August*), Athenry, Co Galway (length 12 years) and Dunsany, Co Meath (length 48 years) with 30.5 °C, Mullingar, Co Westmeath with 30.4 °C (length 72 years) and Dublin Airport, Co Dublin with 29.6 °C (length 80 years). A number of stations also broke their July and/or August maximum temperature records (*more details in the [monthly climate statements](#)*).

Sunshine: Sunniest in August, especially in the South and East

All available sunshine totals were above their LTA for the season. Percentage of seasonal sunshine values ranged from 116% (seasonal sunshine total of 506.2 hours) at Shannon Airport, Co Clare to 120% (seasonal sunshine total of 558.2 hours) at Casement Aerodrome, Co Dublin. Seasonal sunshine totals were highest at Johnstown Castle, Co Wexford with 629.2 hours (no LTA comparison*). Seasonal sunshine totals were lowest at Belmullet, Co Mayo with 405.6 hours (no LTA comparison*). The highest number of daily sunshine hours recorded this season was 16.1 hours at Malin Head, Co Donegal on Saturday 4th Jun. The number of dull days² ranged from 9 days at Dublin Airport, Co Dublin to 17 days at Belmullet, Co Mayo.

Wind: Gales reported in June, no gales in July and August

Seasonal mean wind speeds ranged from 5.0 knots (9.3 km/h) at Ballyhaise, Co Cavan to 12.4 knots (23.0 km/h) at Mace Head, Co Galway. Gales were reported at Belmullet, Co Mayo on Friday 10th June and at Mace Head, Co Galway on Saturday 25th June. There were no gales in July and August. The number of days with gale force winds ranged from zero at most stations to 1 day at both Mace Head, Co Galway and Belmullet, Co Mayo. There were no strong gales or storms reported this season. The season's 10-minute mean wind speed was reported at both Mace Head, Co Galway and Belmullet, Co Mayo on Saturday 25th June Friday 10th June respectively with 34 knots (63 km/h). The highest gust was 45 knots (83 km/h) reported at Belmullet, Co Mayo on Friday 10th Jun.

EXTREME VALUES FOR SUMMER AT SYNOPTIC STATIONS

Rainfall

Highest seasonal total: 311.3 mm at Newport, Co Mayo (96% of its LTA)
Lowest seasonal total: 108.4 mm at Dublin Airport, Co Dublin (55% of its LTA)
Highest daily rainfall: : 47.5 mm at Newport, Co Mayo (36% of its monthly LTA) on Mon 1st Aug

Temperature

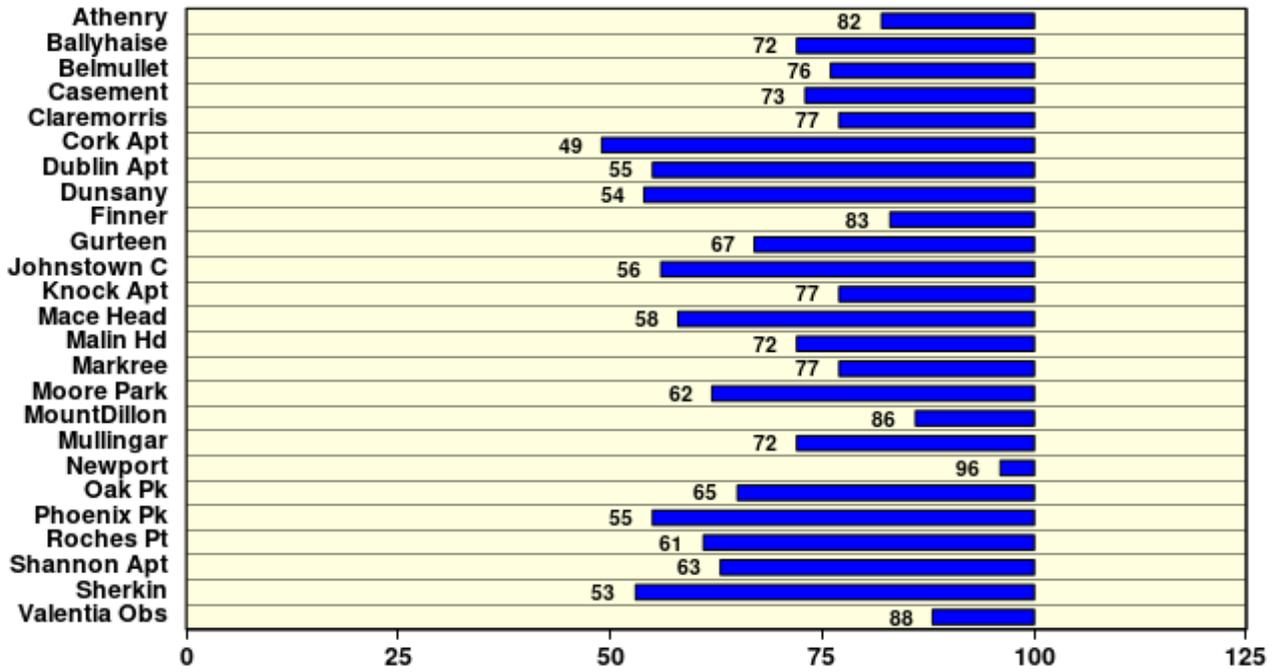
Highest mean seasonal temperature: 16.1°C at both Phoenix Park (1.4°C above its LTA) and Oak Park, Co Carlow (1.2°C above its LTA)
Lowest mean seasonal temperature: 14.1°C at Knock Airport, Co Mayo (0.8°C above its LTA)
Highest air temperature for the season: 33.0°C at Phoenix Park (12.9°C above its monthly LTA) on Mon 18th Jul (*the station's highest daily maximum temperature ever recorded from records going back to 1881 and the second highest temperature ever recorded in Ireland*)
Lowest air temperature for the season: 2.1°C at Mount Dillon, Co Roscommon (6.8°C below its monthly LTA) on Thu 2nd Jun
Lowest grass minimum for the season: -2.1°C at Dublin Airport, Co Dublin on Thu 2nd Jun

Sunshine

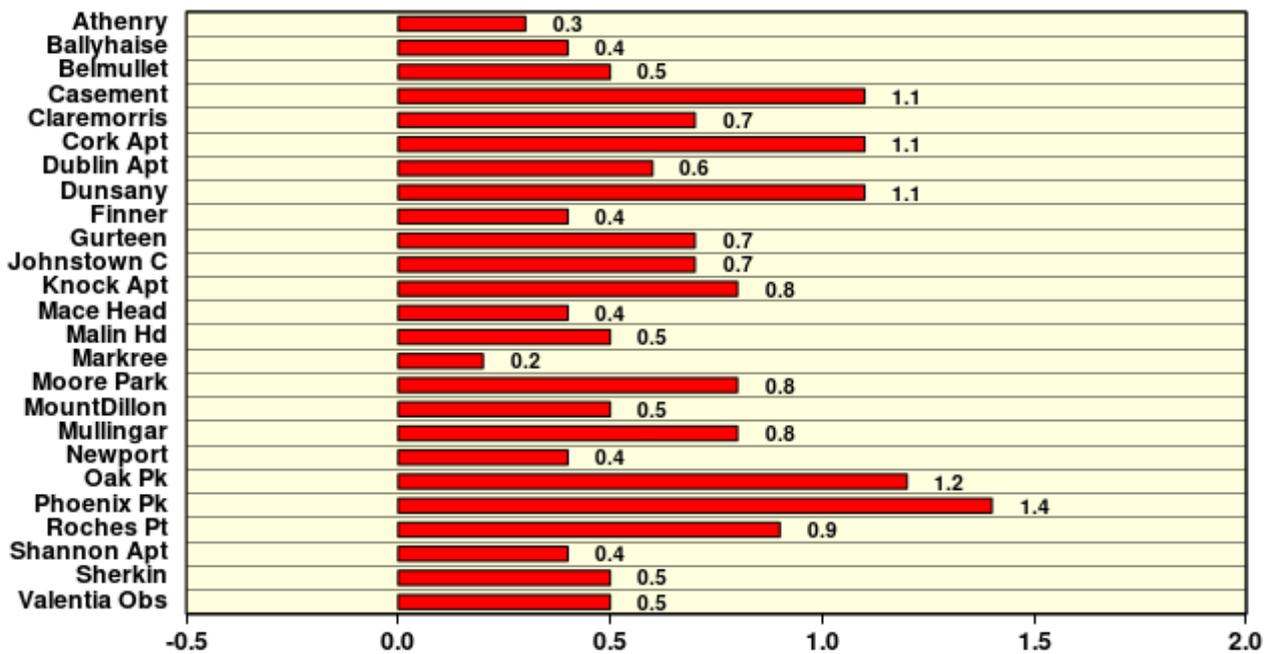
Highest seasonal total: 629.2 hrs (daily mean 6.84 hrs/day) at Johnstown Castle, Co Wexford
Lowest seasonal total: 405.6 hrs (daily mean 4.41 hrs/day) at Belmullet, Co Mayo
Highest daily sunshine for the season: 16.1 hours at Malin Head, Co Donegal on Sat 4th Jun

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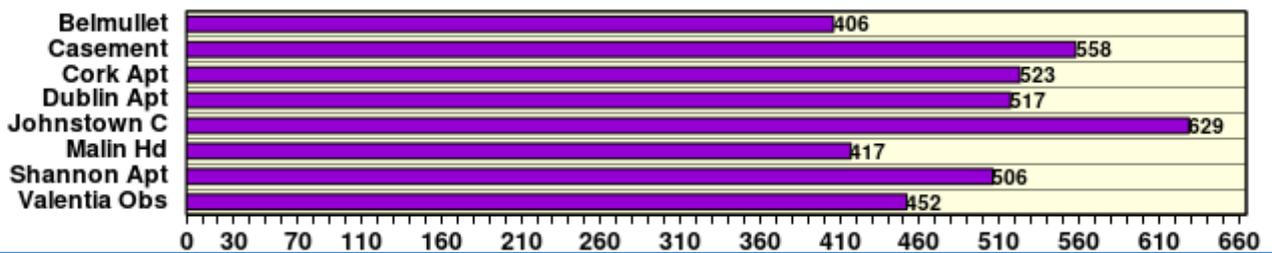
Rainfall (% of average for period 1981-2010) on whole season basis



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



Sunshine (Number of seasonal sunshine hours)



Issued by the Climatology and Observations Division of Met Éireann on Monday 5th September 2022. 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. ¹A wet day is a day with 1.0 mm or more of rainfall. ²A dull day is a day with less than 0.5 hours of sunshine. ³A very wet day is a day with 10.0 mm or more of rainfall. ⁴An absolute drought is a period of 15 or more consecutive days to none of which is credited 0.2 mm or more of precipitation. ⁵A partial drought is a period of at least 29 consecutive days, the mean daily rainfall of which does not exceed 0.2 mm. ⁶A 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). ⁷A 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). *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