



Monthly Weather Summary

The Weather of July 2007

Another very wet month in east and south; mostly cool but sunny

After the very wet weather of most of June in the east and south of the country, rainfall totals for July were again exceptionally high in the same areas. Like the previous month, high pressure remained well to the south of the country, allowing an uninterrupted succession of depressions with their associated frontal systems to move over Ireland until near the end of the month. These produced spells of rain or showers each day, with some locally heavy falls causing flooding, while there were severe thunderstorms and reports of tornadoes on a number of days. At least 1mm or rain was measured on each day at one or more stations in the period between June 11th and July 29th- a total of 49 days. Summer rainfall totals so far (June and July) are more than 250% of normal over parts of Leinster; Dublin (Phoenix Park)'s two-monthly total of 297mm is the highest for this period in its 170-year-old record. Totals for this month were more than three times the July normal in parts of Dublin and it was the wettest July for between 19 and 47 years in many places. There were between 14 and 25 wetdays recorded (days with 1mm or more rainfall) compared with the normal range for July of between 9 and 14. Mean air temperatures overall were near or a little below normal generally and it was the first month since March 2006 that temperatures were not above the 1961-90 normals at all stations. There was little variation in temperatures during the month; they were near or below normal throughout almost all of July, with daily maxima only very rarely rising above 20°C. Despite the frequent spells of rain, sunshine totals were above normal everywhere and it was a very sunny month in coastal counties of the west and north. Malin Head's total of 212 hours was its highest for July since 1955. The sunniest weather of the month was during the last three days.

1st to 29th: Low pressure centred over or close to Ireland brought a continuation of the very unsettled weather of much of June. Rain or showers were recorded each day, with widespread heavy falls in the period 8th/9th and on the 13th, while isolated heavy falls, often in association with thunderstorms, were recorded on the 1st, 16th and in the periods 18th to 20th and 25th to 26th. Tornadoes or related phenomena (funnel clouds and waterspouts) were also observed from a number of locations on several days: the 8th, 16th, 19th and 26th. There were also long sunny spells at times, mainly between showers, especially in the periods 6th to 8th and 14th to 18th in western areas, but temperatures were near or below normal throughout, with a lack of high daily maxima. Winds were mostly westerly in the periods 1st to 13th and 25th to 27th, while they were generally light and variable in direction at other times; the strongest winds were associated with a depression which moved over the north of Ireland on the 5th and 6th.

30th to 31st: High pressure over the country brought dry and settled weather with light winds. There was very sunny weather on both days, but nighttime temperatures were below normal under clear skies.

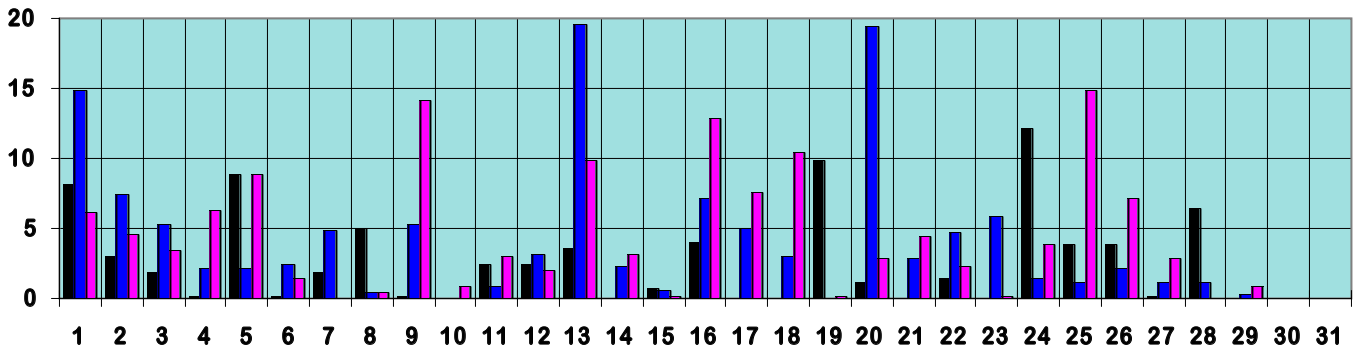
Wind and elements: Mean windspeeds for the month were between 6 and 10 knots (*11 and 19 km/hour*), near or above normal generally for July. The strongest winds at all stations were in the period 5th/6th, when gale gusts were widely recorded; the highest gust, 54 knots (*100 km/hour*), was measured at Belmullet on the 5th. Thunderstorms were frequent during the month, being recorded on the 1st, 2nd, 5th, 8th, in the period 14th to 22nd and on the 26th; they were particularly widespread on the 1st, 8th, 16th, 17th, 19th and 26th. Hail was recorded on the 16th, 18th and 26th. Fog was most widespread in the period 11th to 12th, on the 15th and 20th.

Extreme values

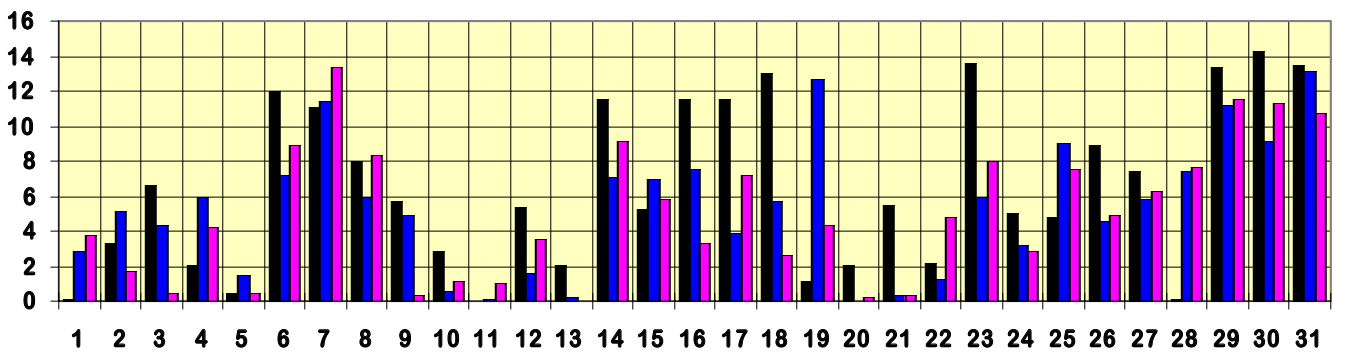
Rainfall	Highest total: 154mm at Mullingar (<i>its wettest July since 1960</i>) Lowest total: 74mm at Rosslare Highest daily rainfall: 23.9mm at Kilkenny on 13th (<i>its wettest July day since 1988</i>)
Temperature	Highest mean monthly temperature: 15.2°C at Shannon Airport Lowest mean monthly temperature: 13.4°C at Knock Airport Highest temperature: 21.5°C at Kilkenny on 12th and Shannon Airport on 15th Lowest air temperature: 5.4°C at Mullingar on 8th Lowest grass minimum temperature: -0.1°C at Kilkenny on 7th
Sunshine	Highest monthly total: 224 hours at Rosslare Lowest monthly total: 142 hours at Birr Highest daily sunshine: 15.3 hours at Malin Head on 15th

July 2007 Daily values at selected synoptic stations

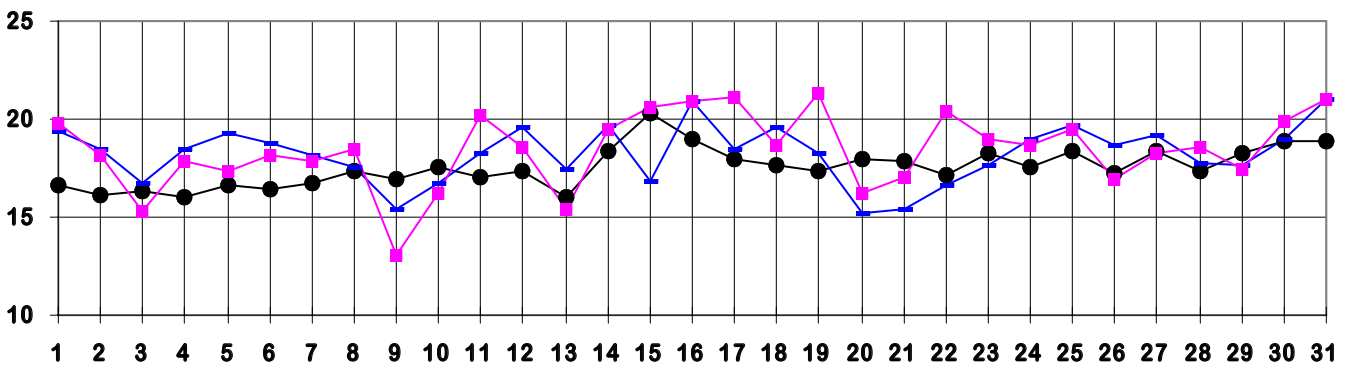
Rainfall (mm)



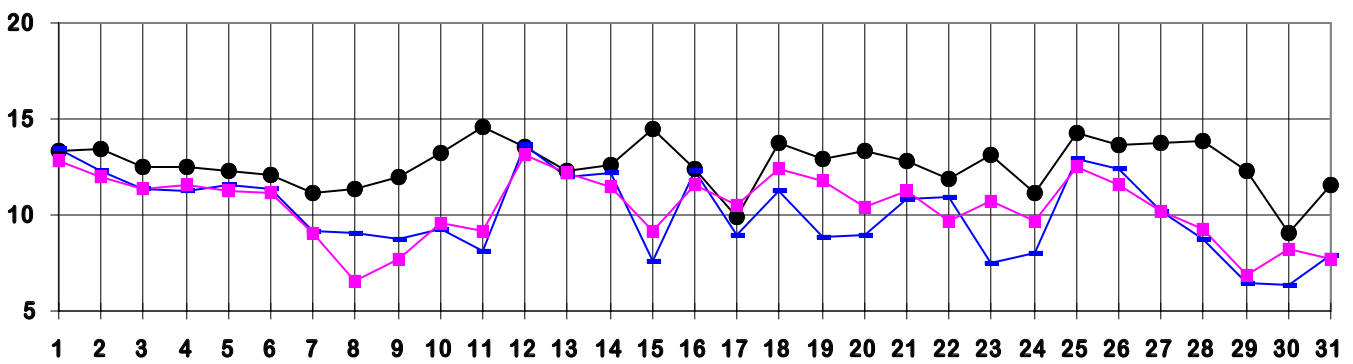
Sunshine (hours)



Maximum temperature (°C)



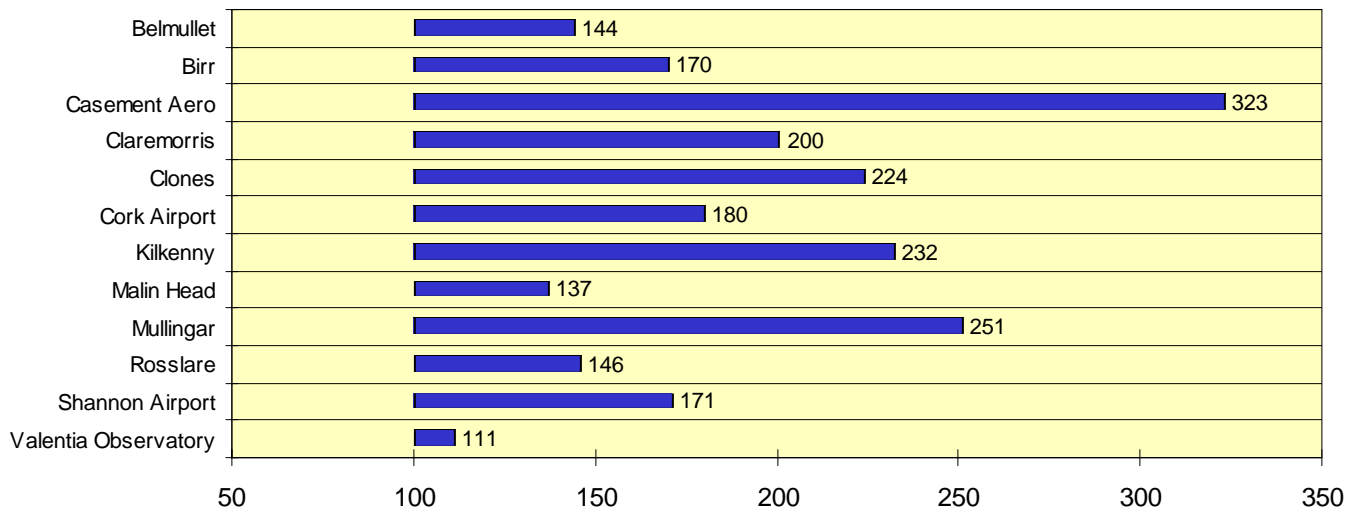
Minimum temperature (°C)



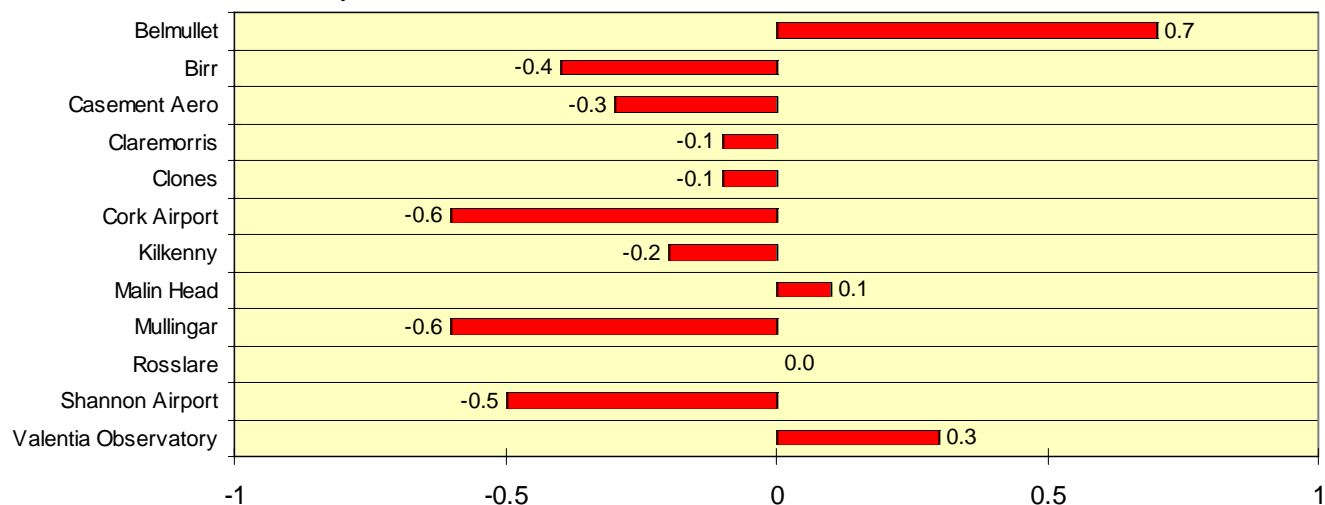
● Valentia Observatory - Dublin Airport ■ Clones

July 2007 Percentage / Difference from 1961-90 monthly normals

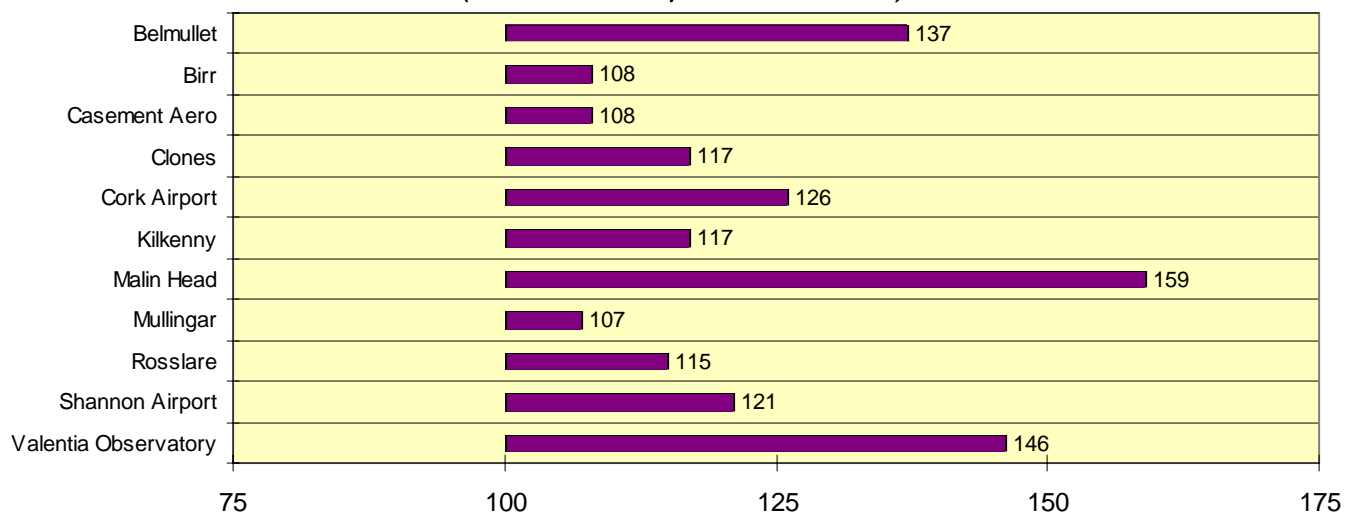
Rainfall (% of normal for period 1961-1990)



Temperature (°C difference from normal for period 1961-1990)



Sunshine (% of normal for period 1961-1990)



Issued by the Climatology and Observations Division of Met Éireann on 1st August 2007

This report is based on preliminary data from the synoptic weather stations operated by Met Éireann

A detailed summary is available in the **Monthly Weather Bulletin**

For more information, contact Met Éireann at 01-8064200 or e-mail: climate.enquiries@met.ie website: www.met.ie/climate