



MONTHLY WEATHER SUMMARY

JULY 2012

Relatively cool and dull; wet almost everywhere

All mean temperatures were below average with differences from average largest in the North and Northwest, up to -1.9°C at Markree. Mean temperatures for July ranged from 12.6°C at Knock Airport, its coolest July since 1998 (14 years), to 14.9°C at Shannon Airport. Malin Head reported a mean temperature of 13.0°C , 1.3°C below its average and its lowest July mean temperature since 1972 (40 years). Most remaining stations reported their coolest July in at least 10 to 24 years. Monthly mean maximum and minimum temperatures were below average. Maximum temperatures in the South at Roche's Point and Sherkin Island of 19.4°C and 19.7°C , were their lowest recorded since 1980 (32 years) and 1994 (18 years) respectively, while a majority of other maximum temperatures recorded in West and North were the lowest in five to 24 years. The monthly minimum temperature at Johnstown Castle of 7.4°C on the 12th, was its lowest recorded during July since 1986 (26 years) while some other minimum temperatures in areas of the West, Southwest, South and North were the lowest in eight to 16 years. Rainfall was above average nearly everywhere, except at Finner in the Northwest which reported a long-term average (LTA) value of around 95%. Remaining stations reported LTAs of between 100% and 200% with highest percentage values reported in the Dublin area, Midlands and Southwest. July's highest daily rainfall was at Valentia Observatory on the 31st with 32.1 mm. Mullingar reported a highest daily fall of 13.3 mm on the 23rd it's lowest highest daily rainfall in July since 2004 (8 years). Number of rain days (*days of 1mm or more*) were on or above average, ranging from 14 in the Southeast to over 20 in the Southwest. Sunshine totals for July were all below average with percentage values ranging from 67% at Knock Airport to 89% at Casement Aerodrome. Dublin Airport had the most sunshine this month with just under 138 hours and 84% of its LTA; its dullest July since 2003 (9 years).

1st to 8th: Unsettled weather as a slow moving area of low pressure and its associated frontal systems affected the country. Heavy bands of rain, persistent at times, with high accumulations on the 6th, especially in the Southeast. Scattered showers also, some with thunder. Dry weather otherwise, with prolonged sunshine in parts. Generally mild with fog reported in the South, East and West. Winds were mainly light to moderate varying from southerly to northeasterly in direction.

9th to 15th: Further frontal activity brought more rain, sometimes heavy with patchy drizzle. Showers, occasionally light but some thundery downpours with hail at times. Dry inbetween, cloudy at times with sunny spells also, especially in the West. Winds were mainly light, sometimes moderate, north to northwest in direction.

16th to 20th: Outbreaks of heavy persistent rain with some isolated thundery showers. Further shower activity, mainly light. Cloudy at times, with fog reported in parts. Good prolonged sunshine elsewhere, with relatively cool temperatures. Winds light to fresh; north to northwest in direction with gale gusts in the Southwest and East.

21st to 30th: Brief period of high pressure brought mostly dry, relatively warm weather with humid conditions. Frontal activity thereafter with bands of rain with heavy bursts, light at times with some drizzle. Showery activity also, some heavy with thunder. Winds were mainly light, occasionally moderate, variable in direction, with gale gusts reported along Atlantic coasts and in the East.

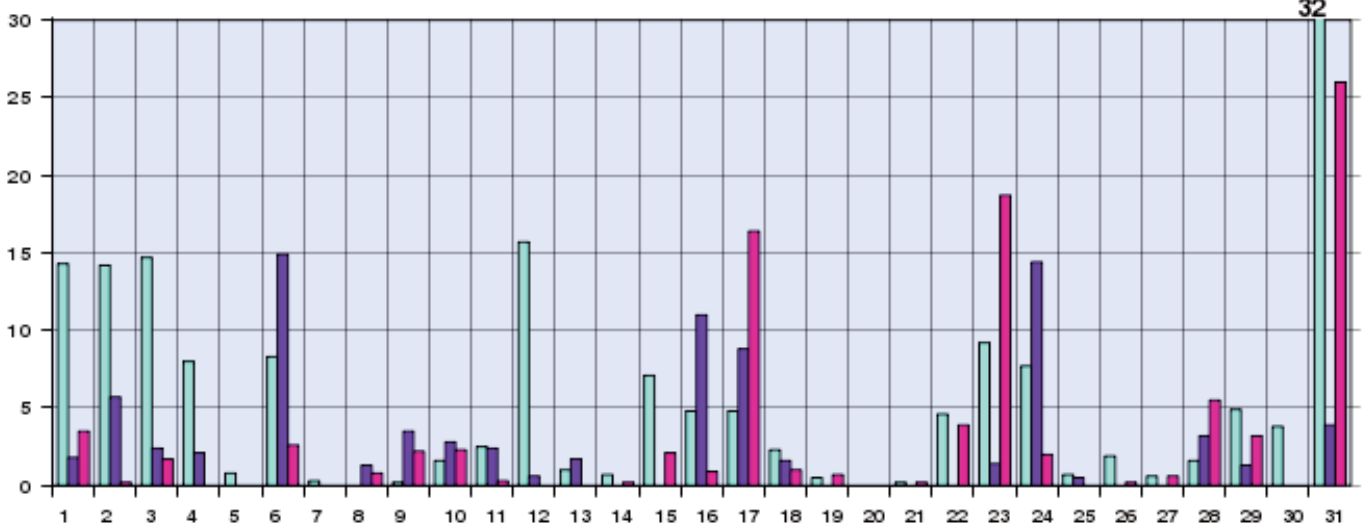
WIND AND ELEMENTS: Mean windspeeds for the month were between five and 11 knots (*9 and 20 km/h*) with gale gusts reported on the 17th, 18th, 22nd, 23rd, 28th, 31st. The month's highest gust of 43 knots (*80 km/h*) was recorded at Belmullet on the 22nd, with no gales reported. Thunderstorms were observed on numerous days with one report of hail on the 11th in the West. Fog was also reported on a number of days mainly in the West and South. No days with ground frost or air frost were reported.

EXTREME VALUES AT SYNOPTIC STATIONS

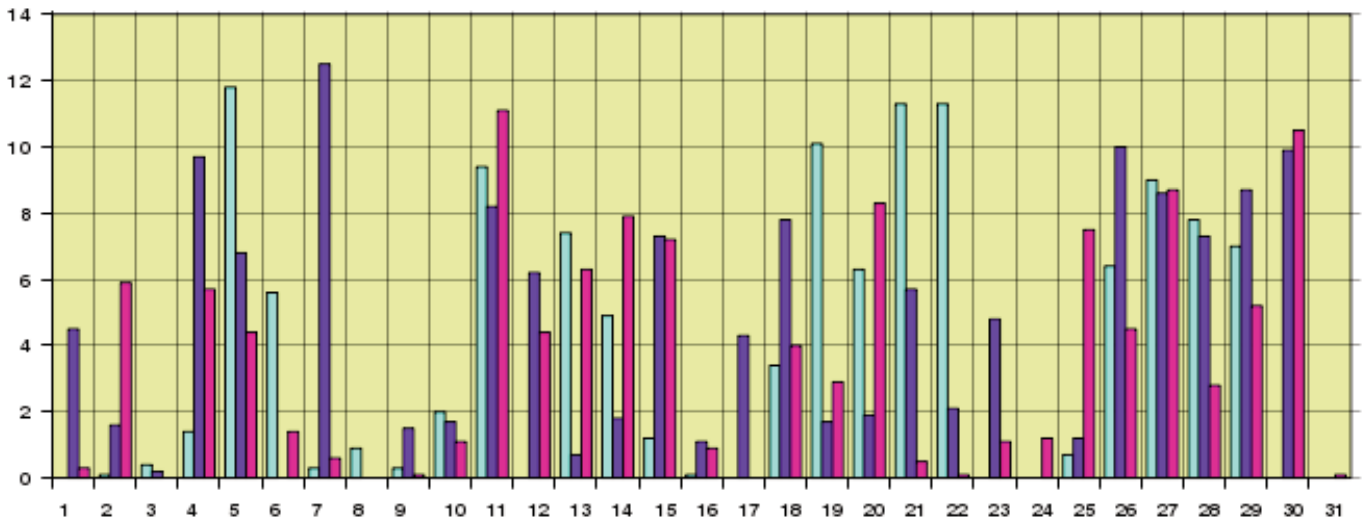
Rainfall	Highest total: 169.1 mm at Valentia Observatory Lowest total: 76.2 mm at Carlow (Oak Park) Highest daily rainfall: 32.1 mm at Valentia Observatory on 31st
Temperature	Highest mean monthly temperature: 14.9°C at Shannon Airport Lowest mean monthly temperature: 12.6°C at Knock Airport (<i>its coolest July since 1998</i>) Highest temperature: 24.3°C at Phoenix Park on 23rd Lowest air temperature: 4.3°C at Markree on 12th Lowest grass minimum temperature: 0.9°C at Finner on 12th, Mullingar on 15th
Sunshine	Highest monthly total: 137.8 hours at Dublin Airport (<i>its dullest July since 2003</i>) Lowest monthly total: 87.9 hours at Knock Airport Highest daily sunshine: 14.0 hours at Cork Airport on 26th, Shannon Airport on 27th (<i>their highest since July 2005</i>)

JULY 2012 DAILY VALUES AT SELECTED SYNOPTIC STATIONS

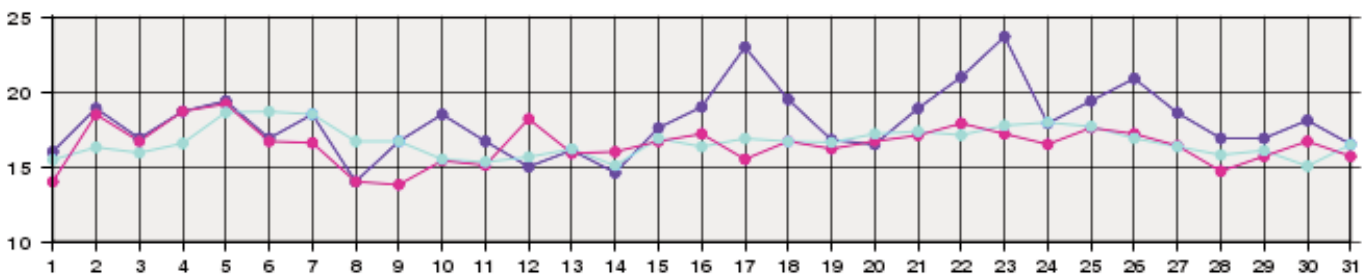
DAILY 00-24 h RAINFALL VALUES (mm)



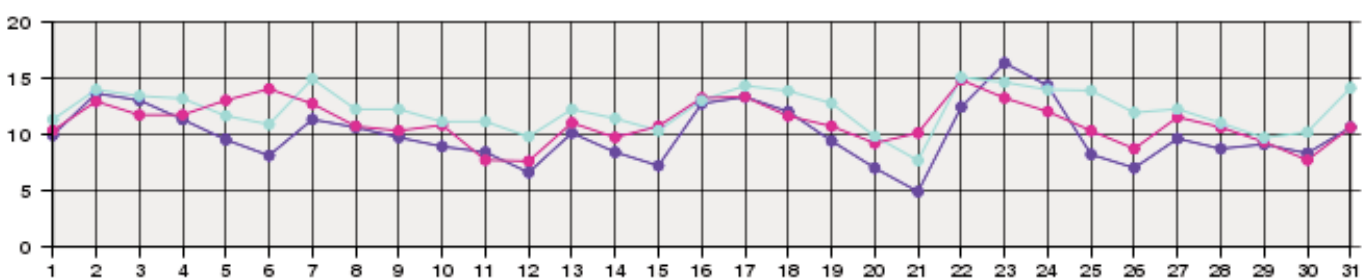
DAILY SUNSHINE HOURS (hours)



DAILY 00-24 h MAXIMUM TEMPERATURES (°C)



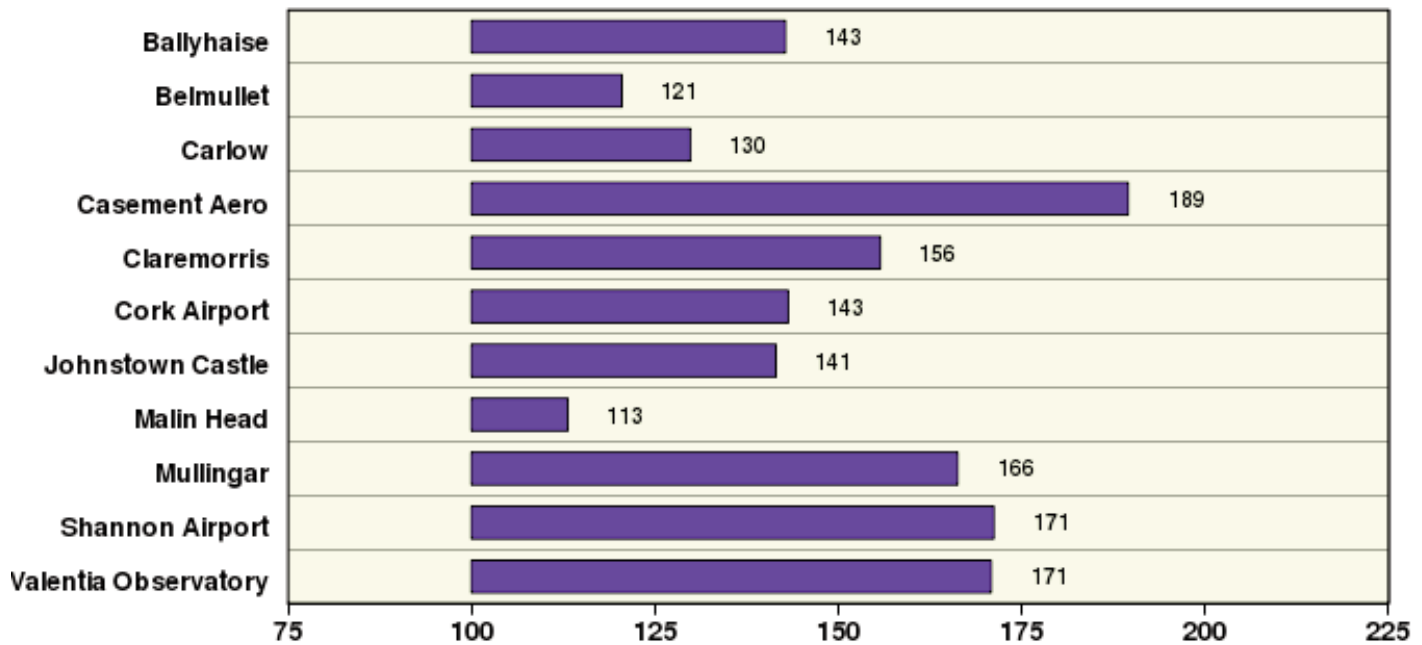
DAILY 00-24 h MINIMUM TEMPERATURES (°C)



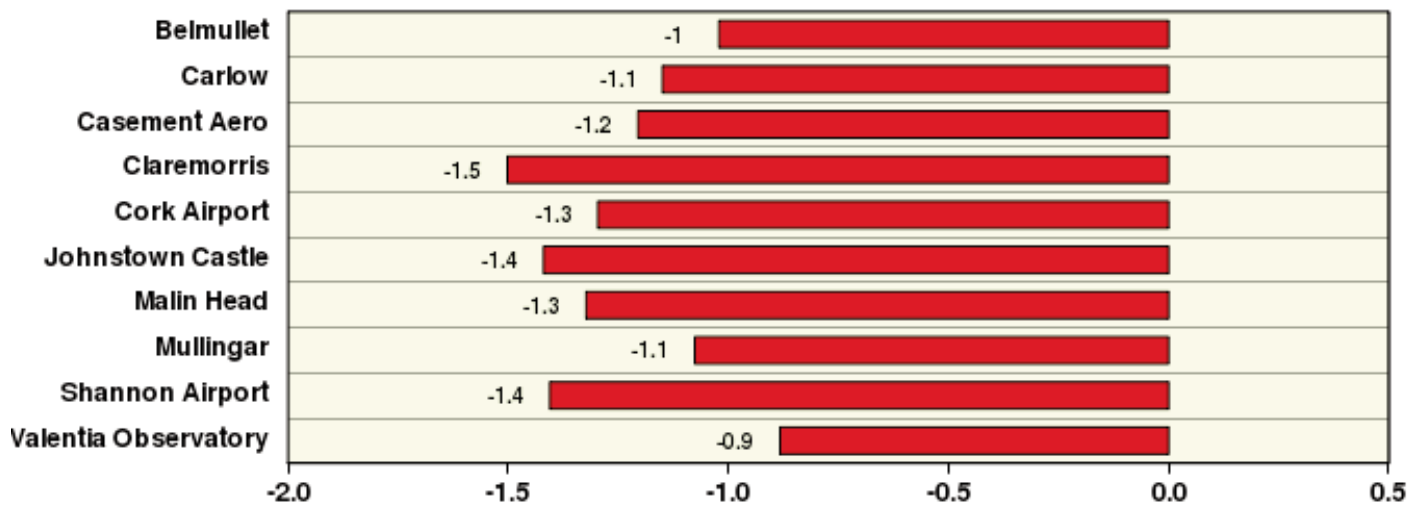
● Valentia Observatory ● Dublin Airport ● Belmullet

JULY 2012 PERCENTAGE/DIFFERENCE FROM 1981-2010 MONTHLY AVERAGES

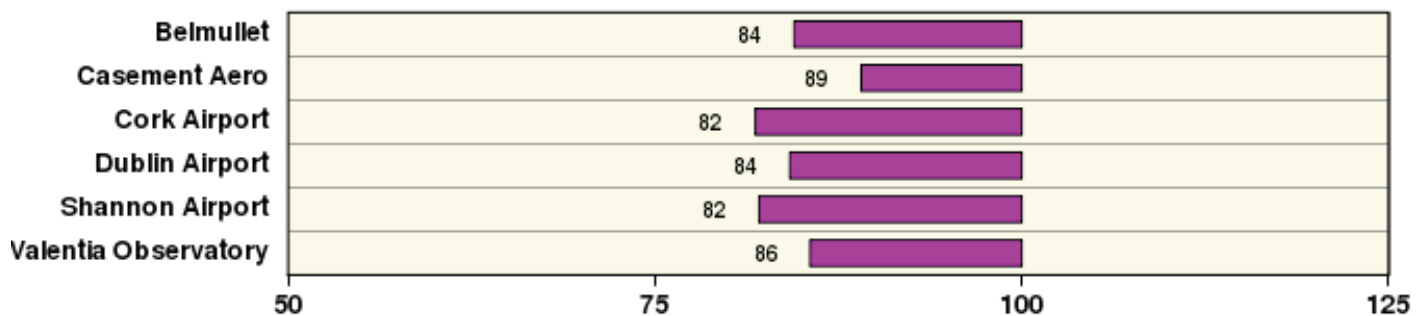
RAINFALL (% OF AVERAGE FOR PERIOD 1981-2010)



TEMPERATURE (°C) (DIFFERENCE FROM AVERAGE FOR PERIOD 1981-2010)



SUNSHINE (% OF AVERAGE FOR PERIOD 1981-2010)



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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