



# Monthly Weather Summary

## The Weather of September 2007

### **Drier than normal everywhere; mainly warm and sunny**

After the very wet weather of the summer months, rainfall totals for September were below normal everywhere. High pressure was the dominant influence throughout the first half of the month and again during the final week, bringing predominantly dry weather with lighter than normal winds. Rainfall totals were just over half of normal in many places, but at no station were they as low as the exceptionally dry September of 2002. Most of the month's rainfall was recorded between the 16th and 24th, with some heavy falls in places on the 16th and 21st. The number of wetdays during the month (days with 1mm or more rainfall) varied between 6 and 12 in most places, around half of the normal number for September. Although mean air temperatures for the month were above normal everywhere, by around half a degree generally, it was still the coolest September for between 5 and 13 years at most stations. As shown by the charts of daily temperatures on page 2, the first half of the month was warm, but both daytime and nighttime values fell sharply during the second half, especially during the final week. Unusually for September, there was widespread ground frost on the 18th and in the period 26th to 27th; air and ground temperatures of  $-1.1^{\circ}\text{C}$  and  $-6.6^{\circ}\text{C}$  respectively at Birr on the 27th were the lowest on record for September at the station. Sunshine totals were near normal in the east, but they were higher than normal generally, especially in the southwest; it was the sunniest September for between 5 and 11 years at a number of stations. Both Mullingar and Shannon Airport had their sunniest September day in over 50 years of record on the 7th.

**1st to 15th:** A large anticyclone centred over or to the southwest of Ireland gave mainly settled conditions. Light showers fell over the northern half of the country during the first few days of the month, but rainfall amounts overall were small. Winds were light throughout the period, mainly between southwesterly and northwesterly in direction. Both daytime and nighttime temperatures were above normal, while it was sunniest on the 3rd and between the 6th and 10th.

**16th to 24th:** An active cold front moved eastwards across the country on the 16th, bringing heavy rain and introducing a spell of cooler and more unsettled weather. Most days during this period were showery, with more persistent falls on the 21st, 23rd and 24th. Southwest to westerly winds were strong at times, especially on the 24th as a deep depression passed to the northwest of Ireland. While daytime temperatures were near normal, there was ground frost under clear skies in inland areas on the 17th and 18th.

**25th to 30th:** An anticyclone centred to the north of Ireland brought a cool north to northeasterly airstream across the country, later veering southeasterly. Bands of showery rain crossed the country at times, but rainfall amounts were small except in eastern counties. After a cold start with clear skies and widespread ground frost on the 26th and 27th, the weather became cloudier but milder at the end of the month.

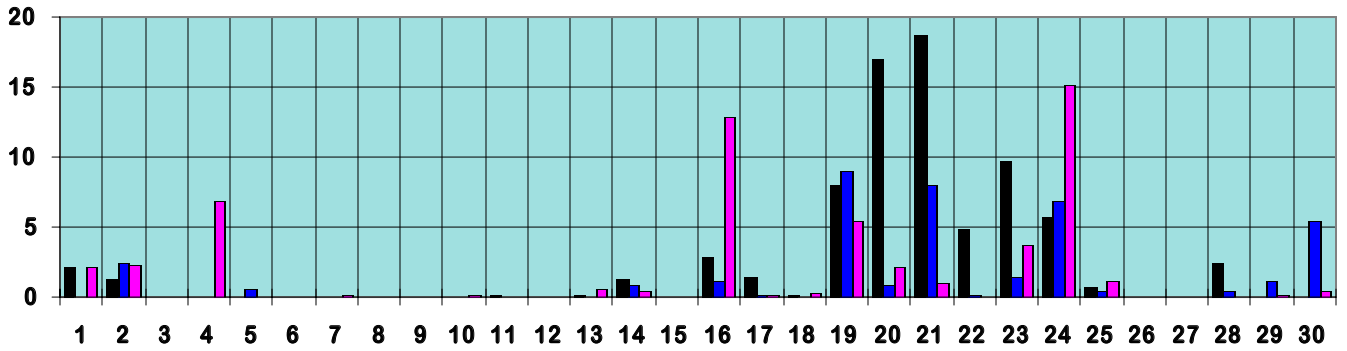
**Wind and elements:** Mean windspeeds for the month of between 5 and 11 knots generally (*9 and 20 km/hour*) were below normal everywhere and were the lowest on record for September at both Belmullet and Valentia Observatory. The strongest winds of the month were measured on the 17th and in the period 24th/25th; the highest gust, 49 knots (*91 km/hour*), was recorded at Malin Head on the 17th. Thunderstorms were recorded only on the 24th, while hail was observed only on the 20th. Fog was most frequent during the period 2nd to 8th.

### **Extreme values**

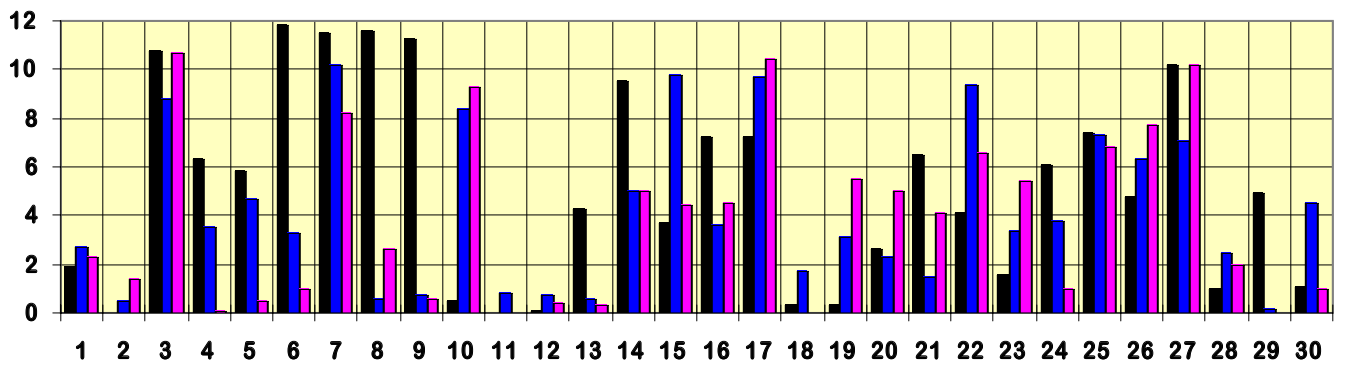
<b>Rainfall</b>	Highest total: 85mm at Knock Airport Lowest total: 36mm at Cork Airport Highest daily rainfall: 30.6mm at Knock Airport on 16th
<b>Temperature</b>	Highest mean monthly temperature: $14.6^{\circ}\text{C}$ at Rosslare ( <i>its coolest September since 2001</i> ) Lowest mean monthly temperature: $12.3^{\circ}\text{C}$ at Knock Airport Highest temperature: $23.5^{\circ}\text{C}$ at Kilkenny on 6th Lowest air temperature: $-1.1^{\circ}\text{C}$ at Birr on 27th ( <i>its lowest September value since records began there in 1954</i> ) Lowest grass minimum temperature: $-6.6^{\circ}\text{C}$ at Birr on 27th ( <i>its lowest September value on record</i> )
<b>Sunshine</b>	Highest monthly total: 169 hours at Rosslare ( <i>its sunniest September since 2002</i> ) Lowest monthly total: 107 hours at Malin Head ( <i>its sunniest September since 2002</i> ) Highest daily sunshine: 12.2 hours at both Shannon Airport and Mullingar on 7th ( <i>their highest September values on record</i> )

# September 2007 Daily values at selected synoptic stations

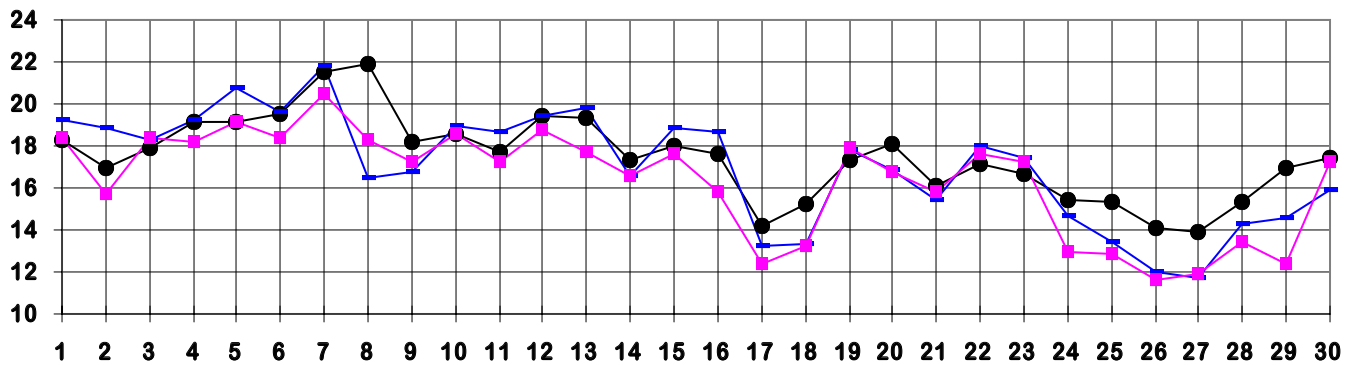
## Rainfall (mm)



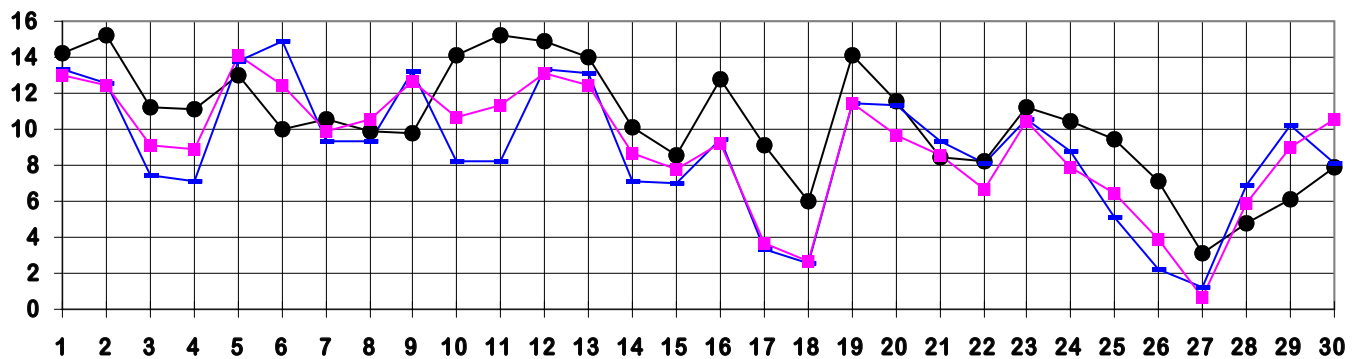
## Sunshine (hours)



## Maximum temperature (°C)



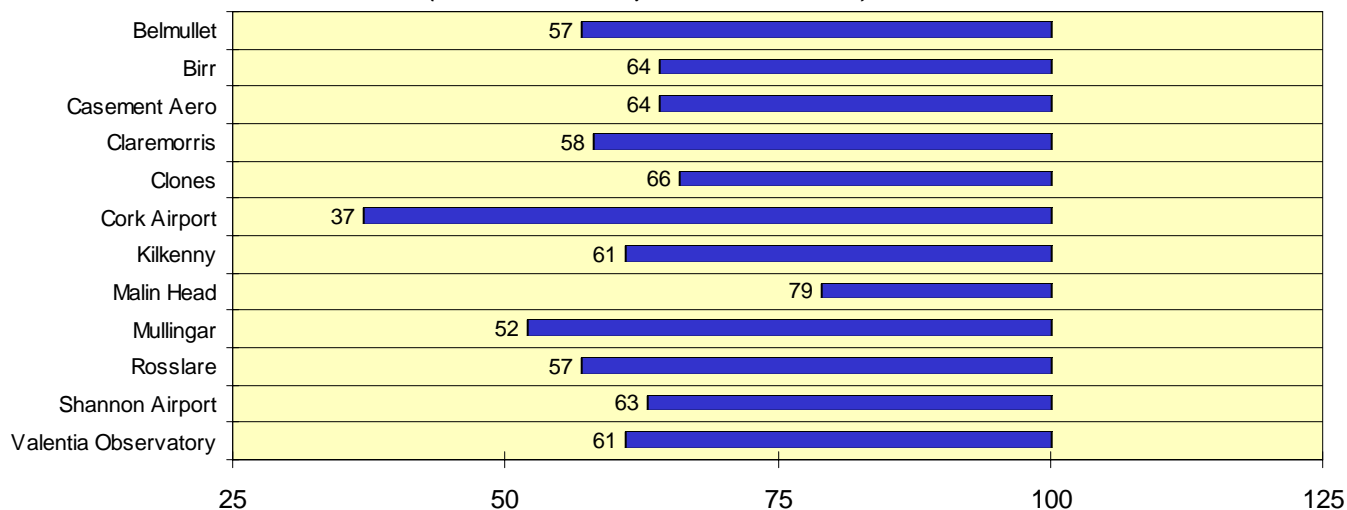
## Minimum temperature (°C)



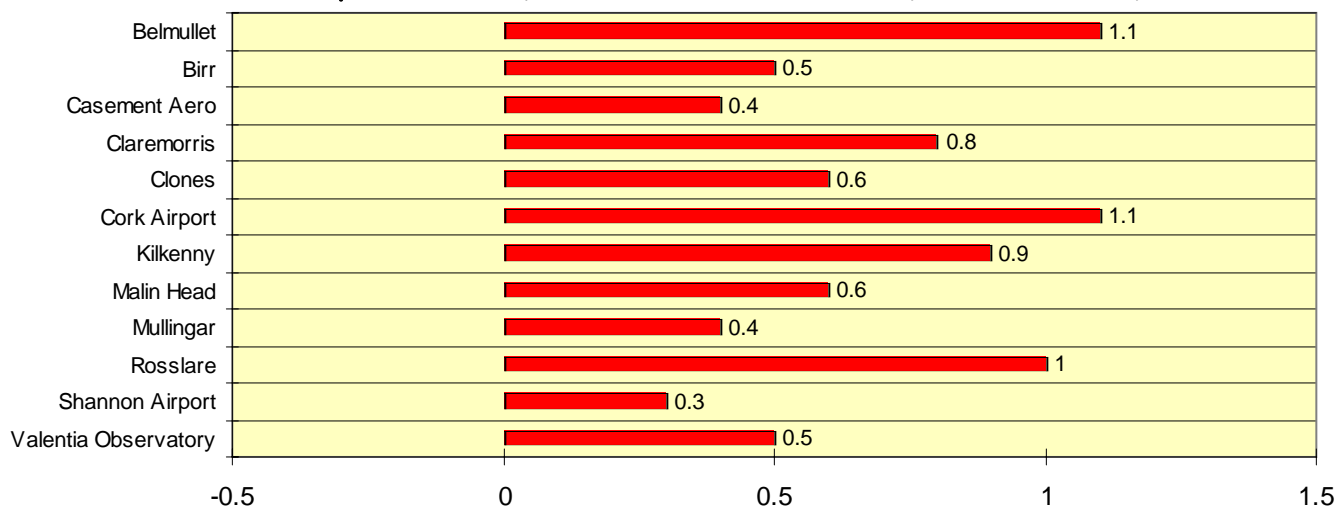
● Valentia Observatory      - Dublin Airport      ■ Clones

# September 2007 Percentage / Difference from 1961-90 monthly normals

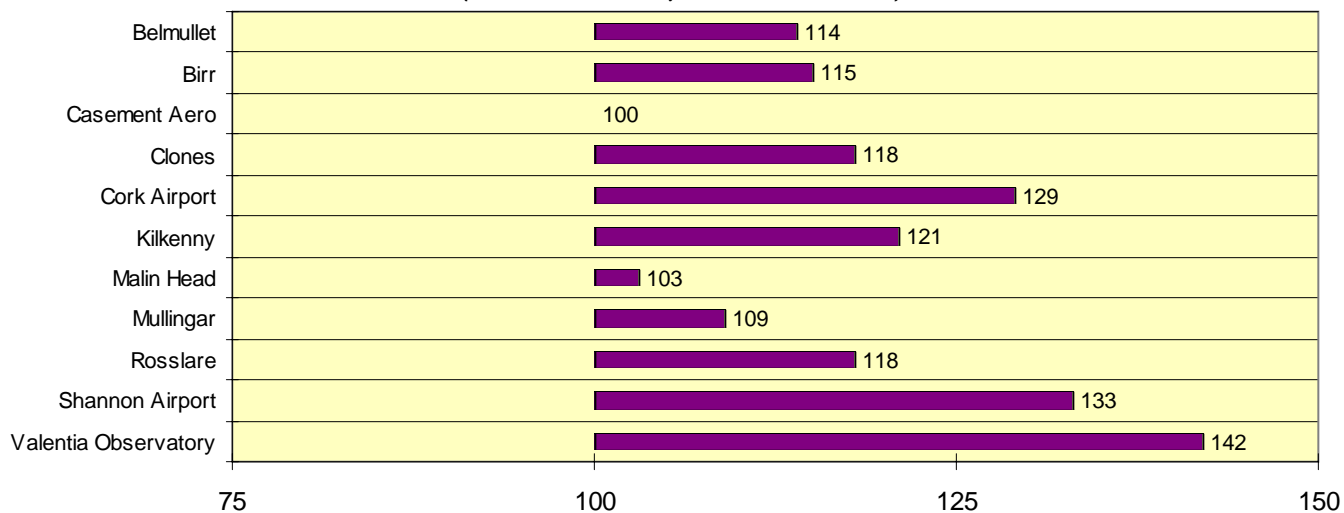
## Rainfall (% of normal for period 1961-1990)



## 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 October 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**

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