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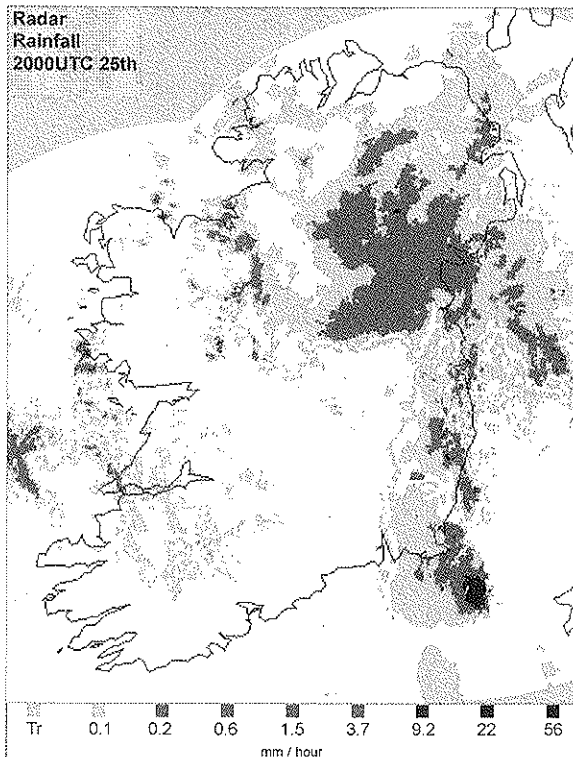
AUGUST
2000

*Frequent thunderstorms
during August,
widespread on 25th
-see page 3*

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SUNSHINE, TEMPERATURE ABOVE NORMAL; SOME HEAVY AND THUNDERY FALLS



August was warmer and sunnier than normal everywhere, but nowhere was it as warm or sunny as August 1995. The second half of the month was much sunnier than the first; cloudy and humid conditions during the first half of August gave some very warm, muggy nights, but the highest daytime temperatures were recorded during the final week. Throughout the month there were some localised heavy showers, often accompanied by thunder and with some occasional torrential downpours. On the 25th a much more extensive band of thunderstorms crossed the country, giving locally heavy falls. Because of the showery nature of much of the precipitation during the month, rainfall totals varied widely across the country.

Low pressure close to the country at the start of the month gave unsettled, showery conditions. A band of rain moved slowly eastwards on the 1st, bringing some heavy falls in the north and west but only small amounts in the southeast. Showers developed early on the 2nd, heaviest in the northern half of the country close to the centre of the depression, with thunder in places. Ireland lay in a moderate northwesterly airstream on the 3rd as the

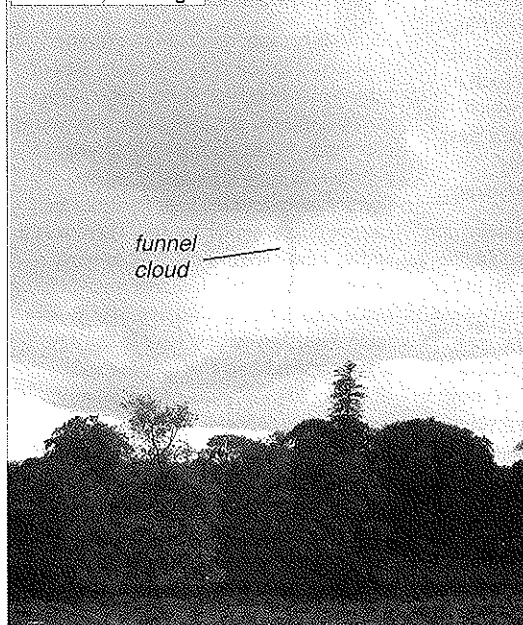
(continued on page 4)

Thunder, hail storms and waterspouts

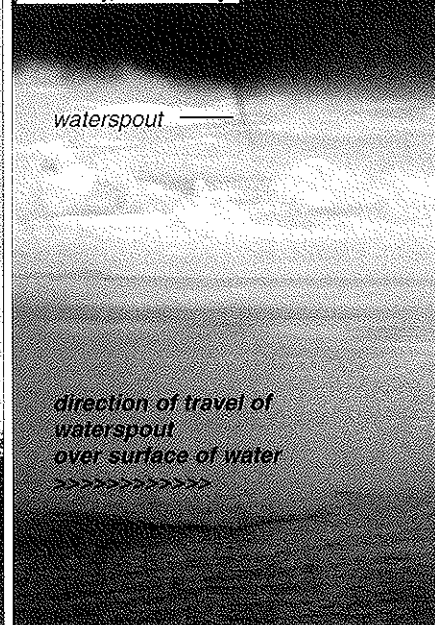
August was a month of unusually frequent thunderstorm activity, occurring throughout the month but especially in the period 15th to 20th, when isolated thunder was recorded each day, and on the 25th when it was recorded at all but a few stations. Thunderstorms in the period around the middle of the month were accompanied by tornadoes, as seen from the pictures opposite. At Coolavin, Co. Sligo, a funnel cloud, i.e. a tornado not reaching the ground, was observed on the afternoon of the 17th, while around the same time a waterspout, or miniature tornado over water, was observed from an Air Corps helicopter over Clew Bay. A hailstorm over the north Dublin town of Skerries gave a covering of over 10cm of hail on the morning of the 20th, giving the appearance of snowfall. The following day a tornado at Toome Bridge, Co. Antrim, produced hailstones of 13mm diameter, while at Aldergrove Airport near Belfast there was a total of 7 days during the month with thunder, around its usual number for a whole year and the highest for any month at the station for exactly 50 years. Widespread thunderstorms on the 25th were heaviest in the eastern half of the country (see radar rainfall chart above), giving falls of over 20mm in places.

(Coolavin picture: courtesy Madame MacDermot, Clew Bay picture: courtesy Air Corps, Dept. of Defence, Skerries picture: Fingal Independent, Cover picture: Peter Lennon)

Coolavin, Co. Sligo



Clew Bay, Co. Galway



Skerries, Co. Dublin



depression moved over Britain; shower activity declined and died out almost everywhere on the 4th as a ridge of high pressure approached the southwest coast. This marked the beginning of a spell of very warm and humid weather which persisted up to the 13th. This spell was characterised by generally cloudy conditions in a southwesterly airstream.

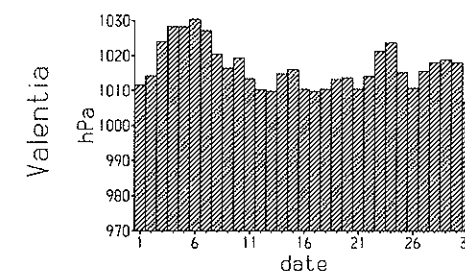
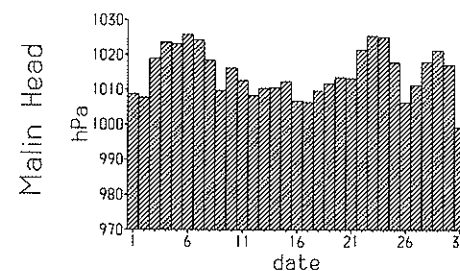
Weak frontal systems brought patchy rain along Atlantic coasts on the 5th and 6th, but there were spells of heavy rain locally over the following days, particularly late on the 8th and early on 9th in the west and northwest, when some very heavy falls caused localised flooding. At most stations in the midlands, east and south, however, rainfall totals for the period 4th to 13th were small. The same period was notable for its high nighttime temperatures; minima were above 10°C at almost all stations during the first half of August and were above 15°C in many places between the 6th and 8th.

Between the 14th and 16th there was a change in weather pattern as a series of cold fronts crossed quickly eastwards over Ireland. These brought some significant falls of rain in the northwest on the 14th and 15th, but more generally on the 16th as heavy thundery showers affected all but southern counties. By the end of the 16th, Ireland lay in a cooler, less humid airstream than during the first half of the month as a depression lay close to the northwest coast. This shallow area of low pressure was the dominant influence on the weather up to the 21st. During this period there were frequent thundery showers, some of which were severe with local downpours and falls of hail. Most of the showers were limited in extent, but with light winds they were also slow-moving. As a result, rainfall accumulations of up to 50mm for the period 16th to 21st were measured in a few locations while less than 10mm fell during the same period at other stations. Between the showers there were long

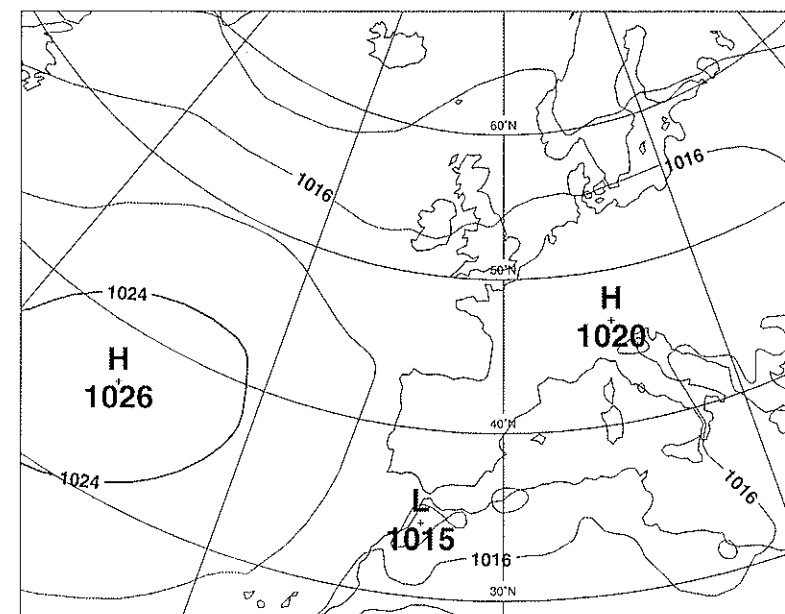
spells of sunshine, but temperatures were a little below normal.

Showers became confined to extreme southern areas on the 22nd as an area of high pressure moved close to the north coast. The 23rd and 24th were very warm and sunny as the anticyclone moved southwards over the country; light northeasterly breezes kept northern and eastern coasts cooler by day. There was a warm, sunny start to the 25th in most areas but bands of thunderstorms associated with a depression over Biscay moved northeastwards later in the day, giving several hours of thunder and lightning in most parts of the country, with falls of between 10mm and 25mm in places. The 26th and 27th were showery in most places, but showers became isolated by the 28th as pressure rose over the country. The 29th and 30th were mostly dry and sunny, but cloud associated with a depression to the west brought rain into northwestern areas late on the 30th. This rain spread to all areas early on the 31st before clearing to scattered showers.

Mean windspeeds for the month of between 7 and 10 knots (8 and 11 m.p.h.) were below normal everywhere and were the lowest for August for between 5 and 17 years at many stations. After some moderate winds during the first three days and on the 8th/9th, winds were light for most of the month thereafter and gale gusts were recorded only at some coastal stations. The highest gust, 52 knots (60 m.p.h.), was measured at Belmullet on the 8th. The month was notable for the frequency of thunder, with both Belmullet and Casement Aerodrome observing thunder on 5 days. Thunderstorms, with hail in places, were recorded on each day during the periods 1st to 2nd, 15th to 21st and 25th to 26th and were particularly heavy and widespread on the 25th (see pages 2 and 3). Fog was recorded on several days during the early morning, especially in the period 5th to 7th.



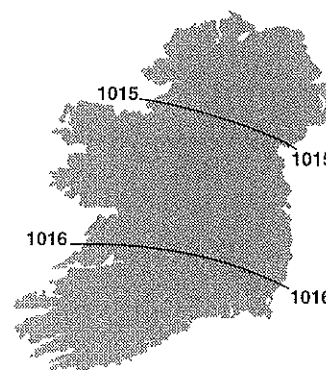
Mean daily M.S.L. pressure (hPa)



the above map is based on means of 1200 UTC values

MEAN ATMOSPHERIC PRESSURE

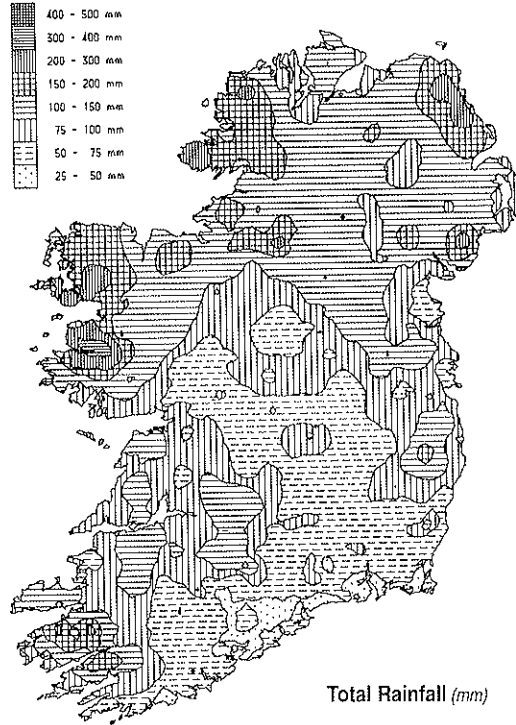
Mean sea level pressure values were a little above normal for August, ranging from close to 1014hPa in the north to over 1016hPa in the south. After an area of low pressure cleared eastwards early in the month, there followed a week of high pressure during which the highest values of the month were measured at all stations. The highest pressure, 1031.0hPa, was recorded at Valentia Observatory on the 6th. Late in the month a depression moved close to the north coast, resulting in the month's only pressure values below 1000hPa at some stations. Malin Head recorded the lowest value, 995.2hPa on the 31st.



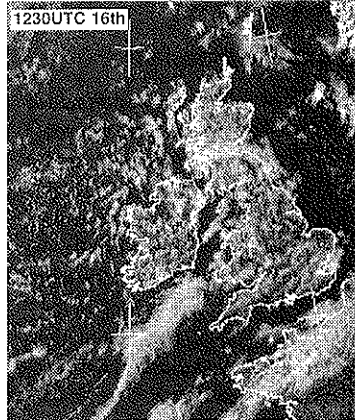
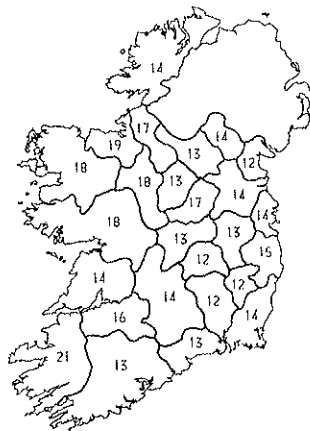
Dry in many places, but with thundery showers at times

Like the preceding month, August rainfall totals were below normal at most stations but there were some exceptions due to the frequency of thundery showers. Totals varied widely over the country, ranging from 34mm at Waterford (Tycor) to 220mm at Maam Valley, Co. Galway, with percentage of normal values between 43% at Tycor and 165% at Warrenstown, Co. Meath. There was similar variation in the number of wetdays across the country (days with 1.0mm or more of rainfall), with between 11 and 14 wetdays at many midland, eastern and southern stations, but up to 22 such days at both Valentia Observatory and Connemara National Park. It was the driest August since 1995 at several stations but the wettest since 1989 at Casement Aerodrome.

It was the sixth month this year with below normal rainfall at Cork Airport, where the yearly total so far of 475mm represents just 65% of normal for the period. While it was a drier than normal month at most stations, heavy showers produced substantial falls locally on a number of days during August, especially in the periods 1st to 2nd, 7th to 9th, 16th to 21st and 25th to 26th. Maam Valley measured the highest daily fall, 62.1mm on the 8th.



Below
The number of wetdays - days with 1mm or more rainfall - in each county

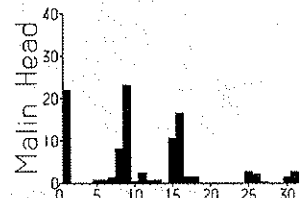
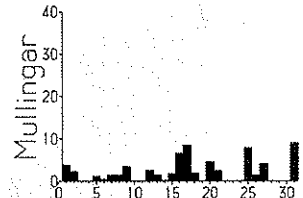
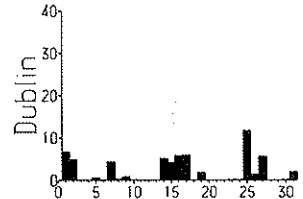
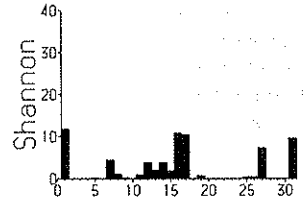
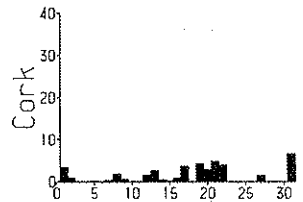
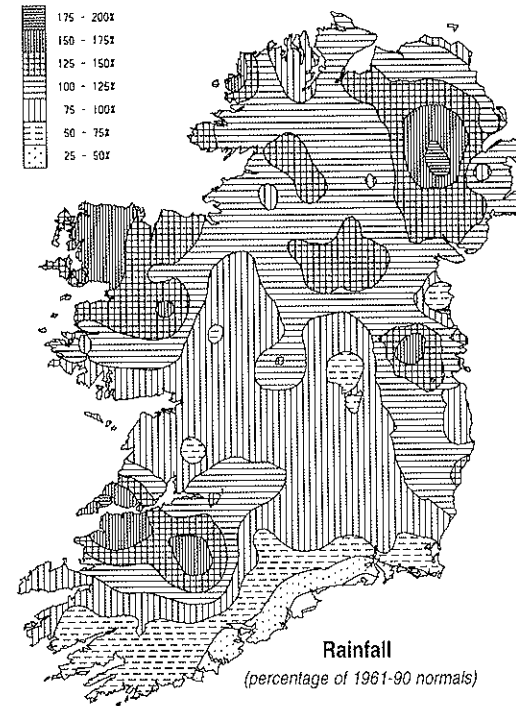


Left
A familiar pattern over Ireland, especially during the second half of the month, as thundery showers gave some local downpours on the 16th.

DAILY RAINFALL EXPRESSED AS % OF MONTHLY NORMAL

COUNTY	DAY																															TOTAL	
	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
Carlow	1	18	-	-	-	5	12	-	-	-	-	-	-	2	-	18	2	6	4	6	1	-	-	-	21	2	-	3	-	5	9	135	
Cavan	20	8	-	-	1	-	3	5	3	-	2	-	2	3	4	10	4	1	15	4	-	-	-	-	10	8	5	-	-	16	3	133	
Clare	12	-	1	-	3	1	2	1	-	2	-	5	3	10	3	7	-	1	1	2	-	-	-	-	3	2	4	-	-	8	17	88	
Cork	8	4	-	-	-	1	5	4	-	2	-	5	4	2	2	2	6	3	4	5	1	-	-	1	3	-	2	-	-	5	3	72	
Donegal	10	2	-	1	3	2	2	31	3	-	3	-	6	2	7	10	3	2	-	9	-	-	-	-	6	3	2	1	-	11	9	126	
Dublin	12	12	-	1	-	-	4	1	3	-	-	-	6	1	7	4	10	13	2	2	-	-	-	-	20	8	9	-	-	2	3	120	
Galway	7	2	-	2	-	1	1	5	-	5	-	4	2	17	1	2	10	1	1	4	-	-	-	-	4	1	2	2	-	7	3	84	
Kerry	18	7	-	2	1	3	1	6	1	-	3	1	7	3	2	3	1	4	1	2	-	-	-	-	4	4	2	-	-	5	4	89	
Kildare	13	13	-	-	-	-	7	-	3	-	-	-	8	1	6	12	13	5	-	2	-	-	-	-	-	16	3	-	-	-	-	102	
Kilkenny	12	10	3	-	-	7	5	-	1	-	-	-	2	1	3	-	13	3	-	1	-	-	-	-	4	1	6	-	-	8	9	89	
Laois	15	8	3	-	1	1	1	3	2	-	1	-	3	1	6	-	3	1	3	-	2	-	-	-	2	1	6	-	-	6	12	79	
Leitrim	9	1	-	1	2	-	2	19	1	-	1	-	3	2	9	8	2	13	-	9	2	-	-	-	6	4	1	-	-	13	2	112	
Limerick	18	-	-	-	5	1	2	1	-	1	1	11	13	1	9	13	4	3	1	-	-	-	-	-	4	2	4	-	-	3	26	124	
Longford	9	1	-	-	-	2	8	2	-	1	-	2	2	9	3	4	7	-	5	4	-	-	-	-	7	1	1	-	-	7	15	90	
Louth	10	8	-	-	-	4	7	1	-	-	1	-	4	10	6	3	7	-	-	-	-	-	-	-	-	18	1	4	-	-	5	5	98
Mayo	14	1	-	1	1	-	-	28	1	-	7	-	8	6	7	9	11	1	3	5	-	-	-	-	6	4	3	1	-	14	9	149	
Meath	11	8	-	-	2	-	14	2	1	-	1	-	2	-	8	2	7	5	1	20	-	-	-	-	26	3	16	-	-	7	2	138	
Monaghan	11	4	-	-	-	13	12	1	-	1	-	1	2	4	10	-	10	-	2	-	-	-	-	-	12	6	2	-	-	20	6	117	
Offaly	11	6	1	-	-	-	2	2	1	-	1	-	3	2	7	1	13	1	-	8	-	-	-	-	4	1	8	-	-	7	7	96	
Roscommon	15	5	-	1	1	1	2	9	1	-	4	-	4	3	10	5	4	5	-	4	-	-	-	-	6	-	3	-	-	13	2	98	
Sligo	18	4	2	1	1	1	1	19	4	-	5	-	3	3	8	6	5	4	3	3	-	-	-	-	13	1	2	-	-	13	2	120	
Tipperary	16	1	1	-	-	6	8	2	1	-	-	3	2	6	1	4	12	1	1	2	-	-	-	-	2	3	3	-	-	6	14	95	
Waterford	4	3	-	-	-	2	2	1	1	-	3	-	2	-	1	3	4	4	-	1	1	1	-	-	1	3	2	-	-	5	4	48	
Westmeath	17	4	-	1	1	1	1	5	1	-	3	-	2	-	6	4	11	7	-	12	8	-	-	-	8	1	3	-	-	11	2	109	
Wexford	2	5	2	-	2	3	-	2	-	2	1	2	2	4	1	-	-	2	-	1	-	-	-	-	17	5	5	-	-	8	-	71	
Wicklow	6	3	-	-	1	1	16	-	2	-	1	-	2	1	6	4	3	3	8	12	-	-	-	-	17	1	1	-	-	5	7	304	
MEAN	12	6	-	-	1	2	4	7	1	-	2	-	4	2	7	5	5	6	1	5	2	-	-	-	-	9	3	4	-	-	8	7	103

NOTE: in the above table, each value represents the percentage of the monthly normal that fell on each day. Stations within each county are averaged together. For example, 18% of the average monthly rainfall in Co. Carlow fell on the 2nd.



Daily rainfall amounts (hours)

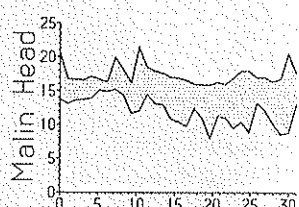
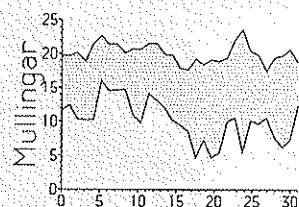
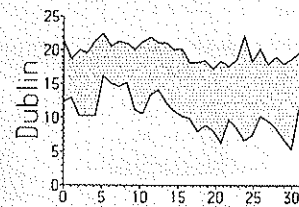
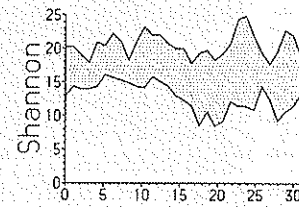
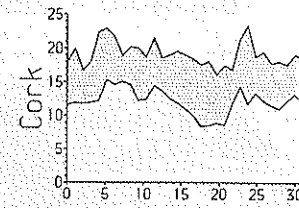
Warmer than normal everywhere

Mean air temperatures for the month ranged from 14.4°C at Connaught Airport to 17.7°C at Dublin (Merrion Square), around a degree above normal generally. Mean maximum temperatures of between 17.5°C and 21°C were over a degree above normal almost everywhere and were over two degrees above normal at Mullingar; at all stations they were at least two degrees lower than the values for August 1995, however.

The first half of the month was very warm despite the generally dull conditions; while nighttime temperatures fell closer to

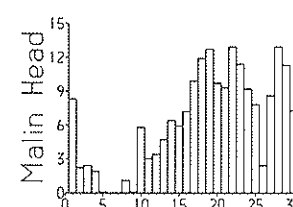
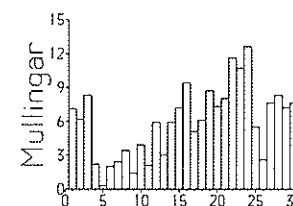
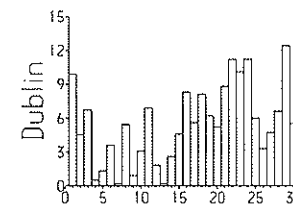
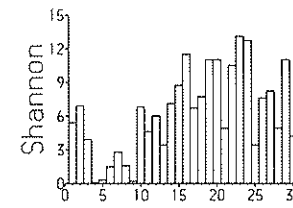
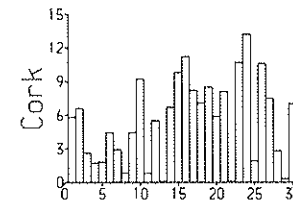
normal during the second half of the month, increased sunshine brought daytime temperatures higher and most stations recorded their highest values of the month in the period 23rd to 25th. The highest temperature, 25.2°C, was measured at Ardfer (Liscahane), Co. Kerry, on the 24th. Clear nights allowed temperatures to fall after mid-month and Straide, Co. Mayo, recorded the lowest air temperature of the month on the 18th, 3.4°C. Slight ground frost was recorded at a few stations between the 20th and 21st; the lowest grass minimum value of the month, -1.7°C, was measured at both Straide and at Clonroche, Co. Wexford, on the 21st.

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Daily maximum and minimum temperatures (°C)

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Daily sunshine amounts (hours)

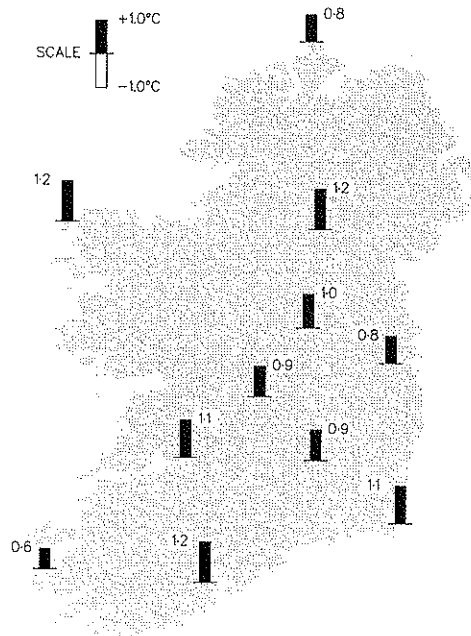
Sunny everywhere, especially in north

Sunshine totals for the month were above normal everywhere and they were well above the August normal in the midlands and north. Totals ranged from 152 hours at Valentia Observatory to 215 hours at Rosslare, with percentage of normal values between 107% at Valentia and 148% at Malin Head.

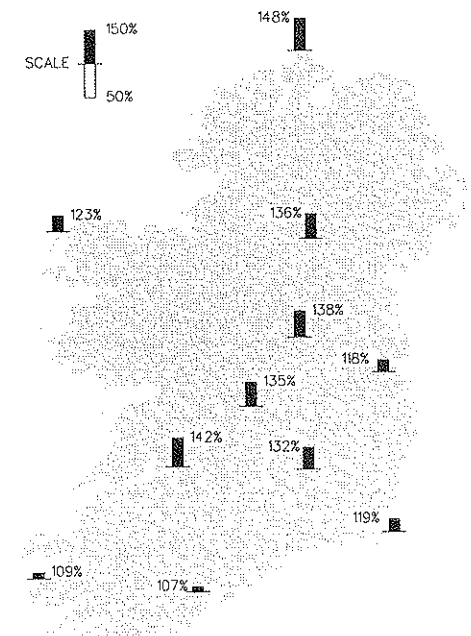
At most stations it was the sunniest August since 1995. This was despite a very dull start to the month, particularly in the southwest; Valentia measured a total of just 6 hours

sunshine for the first 9 days. The second half of the month was considerably sunnier than the first, but at some stations it was the 22nd before daily sunshine of over 10 hours was measured. This value was also widely recorded on the 23rd, 24th and 29th. The highest value, 13.6 hours, was recorded at Galway (Univ. Coll.) on the 22nd.

Global solar radiation totals were above normal everywhere, ranging from 108% of normal at Dublin Airport to 116% at both Malin Head and Belmullet. Totals at these latter two stations for the summer season (*June to August*) were over 10% above the long-term normal.



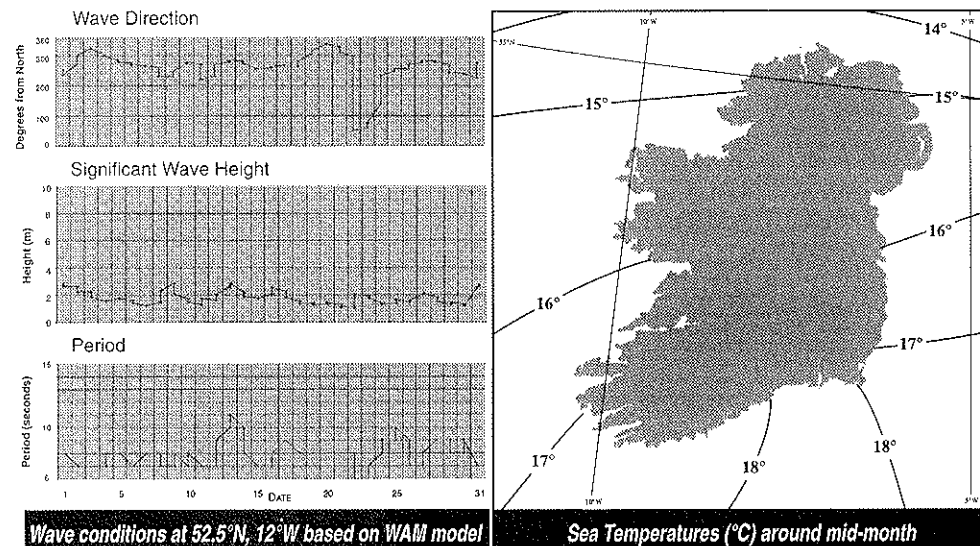
Mean Temperature
(difference from 1961-90 normals)



Sunshine
(percentage of 1961-90 normals)

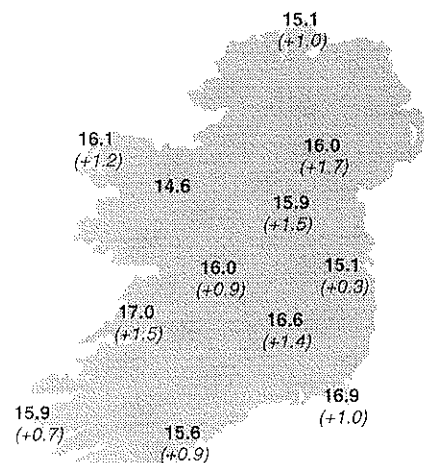
SEA TEMPERATURES

There was a big range in sea temperatures between north and south during August; they ranged from close to 15°C off the north and northeast coast to over 18°C in the south around mid-month, over a degree higher than normal generally. At Malin Head the mean sea temperature for the month was 15.7°C compared with the normal for August of 14.6°C.



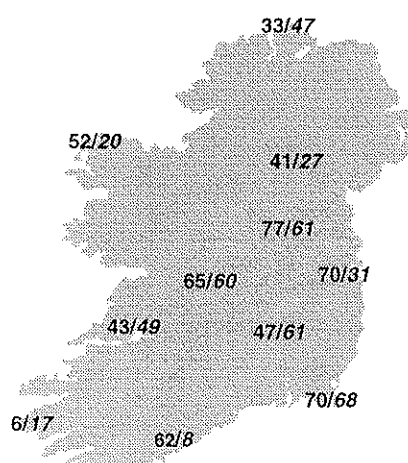
Mean 10cm Soil Temperatures (°C) at 0900Z

(difference from 1961-90 normals in brackets)



Soil Moisture Deficits (mm)

10th of month / End of month
(0 represents field capacity, -10 saturation)



10-DAY VALUES FOR SELECTED AGROMETEOROLOGICAL STATIONS				RAINFALL		TEMPERATURE										SUNSHINE								
Station	period	amount	% of average	rain days	wet days	mean max.	mean min.	mean daily	diff. from average	lowest min.	date	days with air frost	degree days > 4.4°C	degree days > 10.0°C	lowest "grass-min."	date	days with ground frost	mean 10cm at 0800h	mean 30cm at 0800h	total no. of hours	% of average	mean wind speed (ms 21-21)	P.E. (Penman) (mm)	
Co. Cork Fermoy	1-10	18.3	-	6	4	20.4	13.3	16.9	-	9.2	5	0	124	69	7.5	5	0	16.9	17.0	-	-	2.9	-	
	11-20	25.9	-	7	6	19.6	10.4	15.0	-	4.0	18	0	106	54	2.6	18	0	16.2	16.7	-	-	1.8	-	
	21-end	11.0	-	5	4	19.9	9.5	14.7	-	5.5	21	0	113	56	3.0	21	0	15.1	15.8	-	-	2.3	-	
	month	55.2	73	18	14	19.9	11.0	15.5	0.7	4.0	18	0	344	178	2.6	18	0	16.0	16.5	-	-	2.3	-	
Co. Donegal Letterkenny	1-10	30.1	-	7	3	20.3	12.5	16.4	-	12.2	7	0	120	64	-	-	-	-	-	-	-	-	-	-
	11-20	21.8	-	9	7	20.4	9.5	15.0	-	5.0	20	0	106	52	-	-	-	-	-	-	-	-	-	-
	21-end	23.8	-	5	3	20.5	7.8	14.2	-	5.0	25	0	108	52	-	-	-	-	-	-	-	-	-	-
	month	75.7	95	21	13	20.4	9.9	15.2	1.1	5.0	20	0	333	169	-	-	-	-	-	-	-	-	-	-
Co. Kerry Ardfert	1-10	35.5	-	9	6	18.9	13.7	16.3	-	12.6	1	0	119	63	10.0	1	0	-	-	16.4	-	-	-	-
	11-20	62.4	-	10	9	20.0	11.0	15.5	-	5.9	19	0	111	57	4.1	19	0	-	-	76.0	-	-	-	-
	21-end	33.6	-	6	5	20.2	10.5	15.4	-	8.2	24	0	121	61	5.7	21	0	-	-	70.8	-	-	-	-
	month	131.5	-	25	20	19.7	11.7	15.7	0.8	5.9	19	0	350	181	4.1	19	0	-	-	163.2	-	-	-	-
Co. Leitrim Ballinamore	1-10	37.0	-	9	6	19.9	12.9	16.4	-	10.6	2	0	120	64	8.0	5	0	16.2	16.9	26.7	-	2.6	-	
	11-20	62.9	-	9	7	19.6	10.2	14.9	-	4.5	20	0	105	52	4.2	20	0	15.4	16.8	57.2	-	1.3	-	
	21-end	32.0	-	6	4	20.1	8.2	14.2	-	5.0	21	0	107	52	3.0	30	0	14.5	16.0	89.3	-	1.1	-	
	month	131.9	129	24	17	19.9	10.4	15.2	1.0	4.5	20	0	332	168	3.0	30	0	15.3	16.5	173.2	133	1.7	62	
Co. Louth Ardee	1-10	16.4	-	4	4	22.1	13.1	17.6	-	9.6	5	0	132	76	3.4	4	0	17.8	17.9	-	-	-	-	-
	11-20	35.4	-	7	5	21.0	9.6	15.3	-	4.3	20	0	109	56	5.0	18	0	17.3	17.7	-	-	-	-	-
	21-end	30.4	-	8	4	20.6	8.1	14.4	-	6.1	22	0	110	55	2.7	23	0	15.3	16.0	-	-	-	-	-
	month	82.2	111	19	13	21.2	10.2	15.7	1.3	4.3	20	0	350	186	1.1	20	0	17.0	17.2	-	-	-	-	-
Co. Waterford Dungarvan	1-10	12.4	-	6	3	21.2	13.6	17.4	-	9.8	5	0	130	74	8.7	5	0	17.8	-	34.1	-	1.6	-	
	11-20	27.3	-	8	5	20.1	10.4	15.3	-	5.5	18	0	109	56	5.0	18	0	17.3	17.7	60.6	-	1.0	-	
	21-end	20.7	-	6	4	20.3	9.9	15.1	-	4.6	21	0	118	60	4.3	21	0	16.7	17.4	84.6	-	1.2	-	
	month	60.4	-	20	12	20.5	11.3	15.9	1.0	4.6	21	0	357	190	4.3	21	0	17.2	17.9	179.3	-	1.3	65	
Co. Wexford Johnstown Castle	1-10	13.7	-	6	6	20.4	12.7	16.6	-	9.2	5	0	122	66	5.6	5	0	17.0	17.1	38.8	-	1.1	-	
	11-20	9.9	-	6	4	19.2	10.8	15.0	-	7.4	19	0	106	52	2.2	18	0	16.3	16.7	59.2	-	0.8	-	
	21-end	22.6	-	5	4	19.3	10.6	15.0	-	8.2	29	0	116	55	1.8	28	0	15.6	16.3	93.0	-	1.0	-	
	month	46.2	56	17	14	19.6	11.3	15.5	0.7	7.4	19	0	343	173	1.8	28	0	16.3	16.7	191.0	112	2.9	63	

MEASURED POTENTIAL EVAPOTRANSPIRATION (P.E.)

AND SOIL MOISTURE		P.E. (mm)		Soil Moisture (mm)	
County/Station	Period	Amount	Deficit	Accumulated Deficit	Surplus
Co. Dublin Kinsealy	1-10	24.6	-	69	3
	11-20	27.2	-	58	11
	21-end	18.3	-	48	10
	month	70.1	-	-	-
Co. Kerry Valentia Obs.	1-10	13.7	-	0	28
	11-20	21.4	-	0	6
	21-end	31.8	14	14	-
	month	66.9	-	-	-
Co. Leitrim Ballinamore	1-10	15.0	-	15	23
	11-20	27.7	-	0	35
	21-end	22.5	-	0	10
	month	65.2	-	-	-
Co. Wexford Johnstown Castle	1-10	21.7	4	51	-
	11-20	17.5	4	55	-
	21-end	25.8	-	51	4
	month	65.0	-	-	-

SEE BACK PAGE FOR NOTES ON THE DATA

GLOBAL SOLAR RADIATION		P.E. (Penman)	
County/Station	10-day totals (MJ/sq. m.)	total for month	total for month (mm)
Co. Donegal Malin Head	113.71	168.64	188.11
	470.46	73	
Co. Dublin Dublin Airport	136.49	137.15	173.40
	447.04	72	
Co. Kerry Valentia Obs.	102.03	182.43	156.37
	440.83	67	
Co. Kilkenny Kilkenny	not available		
		74	
Co. Mayo Belmullet	119.49	144.66	184.60
	448.75	73	
Co. Monaghan Clones	118.03	146.48	172.86
	437.39	70	
Co. Offaly Birr	121.17	167.73	179.74
	468.64	70	

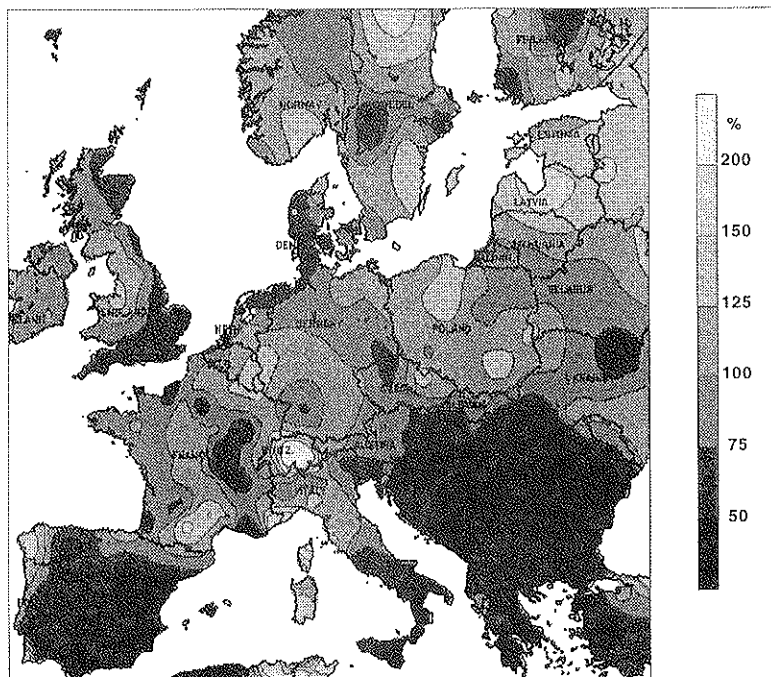
SUMMER RAINFALL

Percentage of 1961-90 normal, June - August 2000

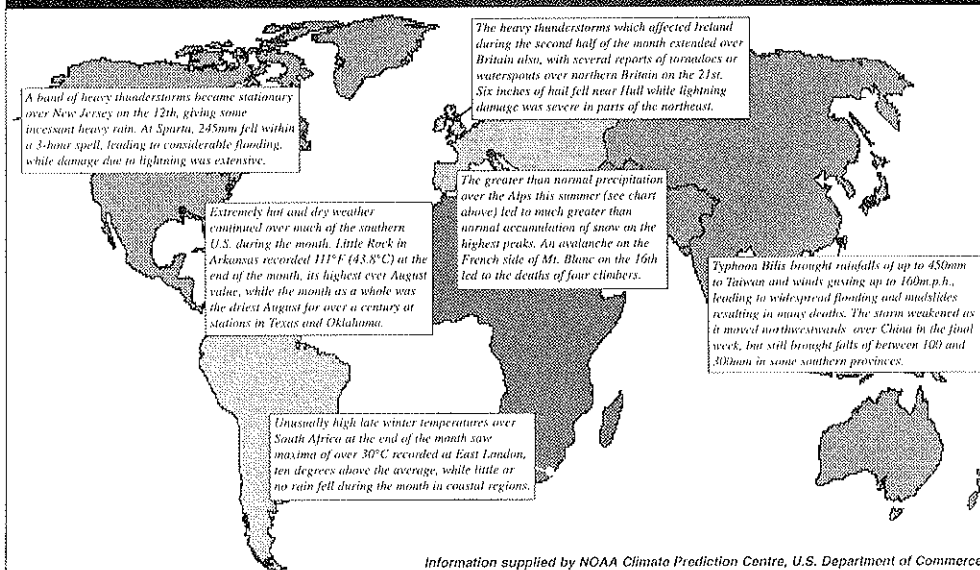
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Percentage of normal rainfall for the summer season, i.e. June to August, shows a very similar pattern over Europe to that for spring (see Monthly Weather Bulletin for May). Less than half the normal rainfall fell over much of the Mediterranean, while the driest areas were once again over southeast Europe, where dry and very hot weather prevailed for most of the summer. The only areas with significantly more summer rainfall than normal were parts of northeast Europe and the Swiss Alps. (chart: Climate Prediction Centre, NOAA)

-summer summary for Ireland is on page 13.



SUMMARY OF SIGNIFICANT WEATHER WORLDWIDE DURING AUGUST



Warm, sunny and mainly dry

Following a dry spring, particularly in the south, rainfall totals for summer were again below normal at most stations, with just over 75% of normal rainfall in parts of the midlands, south and southeast. Some localised heavy and often thundery falls during July and August brought totals above normal for the season at a few stations, however. Summer rainfall totals varied between 131mm at Rosslare and 310mm at Connaught Airport, with percentage of normal values between 76% of normal at Rosslare and 117% at Shannon Airport. It was the driest summer since 1995 at most stations but the wettest for 7 and 8 years at Casement Aerodrome and Shannon Airport respectively. Much of the rain that fell during the season was showery in nature, particularly during July and August when thunderstorms produced localised downpours. During one of these events on July 27th, Shannon Airport measured 39.0mm while over 50mm was recorded at other stations in the region on the same day. Mean air temperatures for the season were above normal for the sixth successive summer, varying between 13.8°C at Connaught Airport and 16.3°C at Shannon Airport. They were between half a degree and one degree above normal in most places but at no station was it as warm as the summer of 1995. Each of the summer months was warmer than normal, despite spells of relatively cool weather during June and July. The highest daytime temperatures at most stations were measured during short spells of hot weather in mid-June and late July. The highest value, 27.6°C, was recorded at Casement Aerodrome on June 18th, its highest June temperature since records began there in 1964. The same value was measured at Shannon Airport on July 22nd. Kilkenny recorded both the lowest air and grass minimum temperatures of the season on June 10th, 2.5°C and -3.7°C respectively; in both cases they were the lowest summer values at the station since 1993. Sunshine totals for the season were above normal at most stations. They ranged from 435 hours at Connaught Airport to 593 hours at Rosslare, with percentage of normal values between 96% of normal at Cork Airport and 122% at Malin Head. June was a dull month but July and August were mostly sunny. The sunniest spell of weather at most stations was during the second half of July; Belmullet measured the highest daily value, 15.1 hours, on both July 21st and 22nd. Malin Head recorded the highest gust of the season, 56 knots (65 m.p.h.) on June 13th, its highest summer gust since 1989.

This summary is based on midnight to midnight readings from synoptic stations operated by Met Éireann

County/ Station	RAINFALL (mm)			TEMPERATURE (°C)			SUNSHINE (HOURS)			NO. OF DAYS WITH:					
	Total	% of average	most in a day amount date(s)	Mean	diff. from average	Extremes Highest Lowest	Daily mean	% of average	most in a day amount date(s)	Rain	Snow	Air frost	Hail	Thunder	Gale gusts
CO. CLARE															
SHANNON AIRPORT	235.8	117	39.0 27 Jul	16.3	+1.1	27.6 6.7	5.50	117	14.6 27 Jun	54	0	0	0	5	9
CO. CORK															
CORK AIRPORT	171.8	77	29.2 31 Jul	15.0	+0.8	24.2 6.0	5.19	96	14.8 20 Jul	51	0	0	0	1	29
CO. DONEGAL															
MALIN HEAD	192.1	84	23.1 9 Aug	14.0	+0.5	23.9 8.0	5.81	122	14.9 22 Jul	47	0	0	0	5	2
CO. DUBLIN															
DUBLIN AIRPORT	142.2		12.8 31 Jul	14.5		25.7 4.8	5.51	100	14.8 17 Jul	54	0	0	1	5	18
CASEMENT AERODROME	181.0	107	16.4 3 Jun	14.9	+0.5	27.6 4.6	5.41	105	15.0 16 Jun	44	0	0	1	5	7
CO. KERRY															
VALENTIA OBSERVATORY	269.0	102	27.2 7 Jun	15.0	+0.6	26.1 7.3	5.19	110	14.2 19 Jul	65	0	0	0	2	10
CO. KILKENNY															
KILKENNY	170.9	98	15.7 27 Jul	15.2	+0.6	26.1 2.5	5.52	116	14.9 21 Jul	66	n/a	0	---	n/a	2
CO. MAYO															
BELMULLET	211.3	92	22.2 8 Aug	15.0	+1.3	26.3 6.4	4.90	103	15.1 21 22 Jul	64	0	0	0	5	3
CONNAUGHT AIRPORT	309.9		18.4 2 Jun	13.8		24.7 5.6	4.73		15.0 6 Jul	68	0	0	0	3	33
CO. MONAGHAN															
CLONES	211.9	99	23.2 31 Aug	14.8	+0.8	25.5 4.4	4.92	111	13.4 28 Jun	60	n/a	6	---	n/a	2
CO. OFFALY															
RIRR	175.2	91	17.1 3 Jul	15.0	+0.6	25.9 3.1	4.78	109	13.8 22 Jul	55	n/a	0	---	n/a	7
CO. WESTMEATH															
MULLINGAR II	168.0	80	18.5 2 Jul	14.7	+0.7	26.3 4.0	5.24	111	14.9 22 Jul	57	n/a	0	---	n/a	1
CO. WEXFORD															
ROSSLARE	131.1	76	30.0 31 Jul	15.2	+0.7	23.9 6.7	6.45	103	14.9 21 Jul	44	0	0	0	4	17

Thursday 1st: A depression to the northwest of Ireland moved slowly southeastward. Mild with light scattered showers overnight but more persistent rain in the extreme north. It was a bright, breezy day with good sunny spells and scattered showers, some of which were heavy and thundery. Winds started off light to moderate southwesterly and increased fresh to strong and gusty in the afternoon, up to gale force on southwest coasts at times.

Rainfall: 1mm in Rosslare, 3 to 9mm generally, 12 to 14mm in the southwest, 23mm in Malin Head

Temperature: max. 17°C to 21°C, min. 10°C to 14°C

Sunshine: 2 to 8 hours generally, 9 to 11 hours in the east and southeast

Wednesday 2nd: The depression now centred over the North Channel continued to move slowly eastwards. Heavy rain along the east coast died out during the morning and was followed by widespread showers, some heavy. Winds were mainly between southwest and northwest, moderate to fresh with some gusts.

Rainfall: nil to 4mm generally, 5 to 12mm in the east and southeast

Temperature: max. 17°C to 21°C, min. 11°C to 14°C

Sunshine: 1 to 4 hours generally, 5 to 9 hours in the east and southeast, 9 hours in Belmullet

Thursday 3rd: A north to northwesterly airflow covered the area. Winds remained from a northwesterly direction during the day and evening, moderate to fresh at first but slackening somewhat later. A weak warm front moved eastwards from the west. A mixture of rain, drizzle and showers persisted until about midday when showers became more isolated.

Rainfall: nil to 5mm

Temperature: max. 16°C to 21°C, min. 10°C to 14°C

Sunshine: 1 to 4 hours generally, 5 to 8 hours in the east and southeast

Friday 4th: The fresh northwesterly airflow backed to a westerly direction over Ireland. An occluding frontal system accompanied by humid conditions approached the west coast. Patches of drizzle in places at times. Winds mainly light between southwest and northwest.

Rainfall: nil to trace

Temperature: max. 16°C to 20°C, min. 10°C to 14°C

Sunshine: nil to 2 hours generally, 5 hours in Clones

Saturday 5th: High pressure to the south extended a ridge over the country; a weak warm front moved slowly over the area through the morning and early afternoon. Overnight it was cloudy and misty in western coastal counties with outbreaks of rain, drizzle or fog. This spread slowly eastwards through the morning affecting all areas after which it brightened somewhat in southeastern areas but continued dull and misty with some drizzle and fog in coastal counties of the west and north. Warm and humid. Winds generally light to moderate south to southwesterly veered westerly through the late morning and early afternoon, falling light inland during the evening.

Rainfall: nil to 2mm generally, 6mm in Valentia

Temperature: max. 17°C to 23°C, min. 8°C to 14°C inland, up to 16°C coastal

Sunshine: nil to 2 hours generally, 7 hours in Rosslare

Sunday 6th: Warm sector conditions prevailed over Ireland in a mild westerly airflow. Humid overnight with patches of drizzle, mist and fog. Cloudy, warm and humid throughout the day with scattered light showers or patches of drizzle and only short sunny spells. Mist and fog patches returned to some places after dark. Winds generally light to moderate and westerly in direction.

Rainfall: nil to 1mm

Temperature: max. 17°C to 24°C, min. 14°C to 17°C

Sunshine: nil to 4 hours

Monday 7th: An area of high pressure to the south of Ireland was declining. Very mild and humid overnight with patches of mist, drizzle and some fog patches. It was a warm, cloudy, humid day with the drizzle persisting in places until mid-afternoon. Showers began to develop in the afternoon and some were heavy and even thundery. Winds were generally light to moderate between northwest and southwest in direction.

Rainfall: trace to 7mm generally, 17mm in Clones

Temperature: max. 16°C to 22°C, min. 13°C to 16°C inland

Sunshine: nil to 3 hours

Tuesday 8th: Active frontal systems approached Ireland from the Atlantic. Very mild, cloudy and humid overnight with patches of drizzle or light rain and some mist or fog patches also. Largely dry in most areas during the morning but a band of rain moved in over the west coast around midday and pushed northeastward during the evening. There was some local flooding in parts of Mayo. Some sunny spells in the

morning but cloudier in the afternoon and evening. Winds started off light sometimes moderate and mainly southwesterly in direction but in the afternoon winds became more southerly off northwest and west coasts.

Rainfall: trace to 3mm generally, 5mm to 9mm in the extreme west, 22mm in Belmullet

Temperature: max. 16°C to 23°C, min. 14°C to 16°C

Sunshine: nil to 5 hours

Wednesday 9th: A shallow depression to the north of Ireland and its associated occluding front brought heavy rain overnight in the west and northwest. The rain died out by midday as the associated cold front cleared the east coast into the Irish Sea. Sunshine amounts were disappointing with the southeast faring best. Winds were moderate to fresh southerly veering southwesterly to westerly and falling moderate with the passage of the front.

Rainfall: trace to 4mm generally, 6 to 12mm in the west, 23mm in Malin Head

Temperature: max. 16°C to 22°C, min. 13°C to 15°C

Sunshine: nil to 4 hours

Thursday 10th: Very humid during the night with light rain and drizzle in many areas well into the morning. Brightening up during the afternoon to give a warm dry afternoon. Winds mainly light from a westerly direction. Mist and fog and a little drizzle setting in again in the late evening particularly along the west and south coasts.

Rainfall: nil to 1mm

Temperature: max. 16°C to 22°C, min. 11°C to 14°C

Sunshine: trace to 4 hours in the east and southeast, 5 to 9 hours elsewhere

Friday 11th: Ireland remained in a southerly airflow. A frontal trough approached the west coast during the morning and moved very slowly eastwards. A calm night with mist and drizzle and patches of fog. Some drizzle or light rain in the west during the day but otherwise dry. Light to moderate mainly southerly winds; a little fresher along the west coast at times with the odd gale gust.

Rainfall: nil to 1mm generally, 3 to 6mm in the extreme west

Temperature: max. 17°C to 23°C, min. 10°C to 15°C

Sunshine: nil to 5 hours generally, 7 to 11 hours in the east

Saturday 12th: A cold front weakened as it crossed the country and by early afternoon had cleared the east coast. Overnight rain in the west cleared early to give a bright sunny day but rain was slow to clear the extreme southeast. Winds were light southerly at first and later became southwesterly or variable.

Rainfall: nil to 4mm

Temperature: max. 18°C to 23°C, min. 13°C to 16°C

Sunshine: trace to 4 hours in the east and southeast, 4 to 8 hours elsewhere

Sunday 13th: A shallow depression to the west gave a slack and mild southerly airflow over Ireland. Apart from local coastal rain or drizzle, the day started off mainly dry, with the best of any sunshine in northern counties. During the afternoon outbreaks of showery rain spread northward to affect many parts of the country, except the extreme east. Winds remained light throughout.

Rainfall: nil to 2mm generally, 7 to 10mm in the extreme west

Temperature: max. 18°C to 23°C, min. 12°C to 15°C

Sunshine: nil to 5 hours

Monday 14th: A slack area of low pressure and associated fronts, drifted eastwards across the country during the first half of the day. Overnight and during the morning it was dull, misty and humid with outbreaks of rain and drizzle in almost all areas and some fog. It brightened in the west in the late morning with just isolated showers spreading east to all areas by early afternoon. During the evening cloud thickened again in western areas with outbreaks of rain. Winds were generally light, southerly or variable to begin but veered westerly during the morning.

Rainfall: nil to 5mm generally, 7 to 11mm in the west

Temperature: max. 17°C to 21°C, min. 10°C to 14°C

Sunshine: 1 to 3 hours in the east, 4 to 8 hours elsewhere

Tuesday 15th: A depression approached from the Atlantic as associated frontal troughs moved across the country. Patchy rain in the west with scattered thundery showers elsewhere. Winds were mainly light to moderate southwesterly and gusty in showers.

Rainfall: trace to 4mm generally, 8mm at Casement Aerodrome, 11 to 12mm in the northwest

Temperature: max. 17°C to 22°C, min. 9°C to 13°C

Sunshine: 5 to 10 hours

Wednesday 16th: Showery troughs crossed the country through the day with thundery showers, most frequent during the morning and afternoon. Despite this, all areas had good long sunny spells, particularly the southern half of country. Winds were generally light to moderate southwesterly but gusty in showers.

Rainfall: 1 to 7mm generally, 11 to 17mm in the west and north-west

Temperature: max. 16°C to 20°C, min. 9°C to 13°C

Sunshine: 5 to 12 hours

Thursday 17th: An unstable southwest to westerly, airflow brought scattered showers, many of them heavy and with hail or thunder, and most frequent during the morning and afternoon. Winds were mostly light to moderate in strength.

Rainfall: nil to 7mm generally, 6 to 14mm in the west and south midlands

Temperature: max. 15°C to 20°C, min. 8°C to 12°C

Sunshine: 5 to 12 hours

Friday 18th: Pressure was almost uniform over the country. A slack north to northwesterly airflow established itself over the country later in the day and night. A frontal wave centred in the Bristol Channel area tracked north-northeastward. Any showers were mainly confined to the northwest, some thundery. Early morning fog and mist cleared to give a mostly dry bright day. Winds were mainly light northwesterly.

Rainfall: nil to 4 generally, 10mm in Clones & Casement Aerodrome, 15mm at Connaught Airport

Temperature: max. 16°C to 19°C, min. 5°C to 9°C inland, up to 12°C coastal

Sunshine: 6 to 13 hours

Saturday 19th: In a north to northwesterly airflow, a shallow, complex area of low pressure off the northwest coast drifted slowly southward later in the day. Rain along the east coast at first was followed by widespread showers during the afternoon and evening and some were thundery. Winds were mainly between southwest and northwest, light to moderate with some gusts in showers.

Rainfall: nil to 4mm

Temperature: max. 16°C to 20°C, min. 7°C to 11°C

Sunshine: 6 to 11 hours generally, up to 13 hours in Valentia and Malin Head

Sunday 20th: Pressure was fairly uniform over Ireland with a shallow depression off the west coast. Overnight mostly dry with just the odd shower and some fog patches also. The fog persisted in some areas until mid-morning. Scattered showers, some thundery and heavy and of hail. Winds were light to moderate and variable in direction.

Rainfall: nil to 5mm

Temperature: max. 16°C to 20°C, min. 5°C to 9°C inland, up to 11°C coastal

Sunshine: 4 to 5 hours in the east, 6 to 13 hours elsewhere

Monday 21st: The depression off the west coast of Ireland deepened and moved southward. Scattered showers overnight and thunder and lightning mainly in the northern half of the country. Fog lingered in some areas until mid-morning. Scattered showers developed, some of which were heavy and thundery. Winds were generally light, moderate at times on northern coasts, and southerly or easterly in direction.

Rainfall: nil to 5mm generally, 9mm in Belmullet

Temperature: max. 16°C to 21°C, min. 5°C to 9°C inland, up to 11°C coastal, ground temperatures down to -1°C in Kilkenny

Sunshine: 4 to 5 hours in the southwest, 7 to 10 hours generally, 13 hours in Rosslare

Tuesday 22nd: An easterly airflow dominated with a low pressure area to the south of the country, tracked very close to the extreme south coast during the period. Generally dry and fine throughout the country except for the south coast. Mist or fog in some midland areas cleared during the morning. Generally light east to northeasterly winds though somewhat fresher along the south coast.

Rainfall: nil or trace generally, 4mm in Belmullet

Temperature: max. 16°C to 21°C, min. 9°C to 14°C

Sunshine: trace to 5 hours in the extreme south, 10 to 13 hours elsewhere

Wednesday 23rd: An area of high pressure developed over Ireland. Any mist or fog over the country cleared during the morning to give a dry, warm sunny day. Winds were light northeasterly. Mist or fog again setting in some areas in the late evening.

Rainfall: nil or trace

Temperature: max. 17°C to 25°C, min. 9°C to 15°C

Sunshine: 9 to 13 hours

Thursday 24th: The fine weather continued as an anticyclone settled over Ireland. Overnight mist and fog soon cleared during the morning and the day was dry, warm

and sunny countrywide. Winds were generally light easterly or variable with sea breezes in the afternoon.

Rainfall: nil or trace

Temperature: max. 18°C to 25°C, min. 5°C to 13°C inland, up to 15°C coastal

Sunshine: 9 to 13 hours

Friday 25th: The anticyclone over Ireland declined as a thundery trough moved up over the country from the south, introducing a very unstable easterly airflow. After a clear night with some mist or fog patches, heavy showers quickly spread into southern regions and thunderstorms became widespread over the country during the afternoon and evening. Winds remained light throughout.

Rainfall: nil to 3mm generally, 7 to 13mm in the midlands and at Connaught Airport, 12 to 18mm in the east and southeast

Temperature: max. 18°C to 23°C, min. 7°C to 14°C inland, up to 16°C coastal

Sunshine: trace to 4 hours in the south, 5 to 8 hours elsewhere

Saturday 26th: An unstable west to northwesterly airflow covered Ireland while a showery trough moved eastwards from the west coast. The thunderstorms of the previous evening continued into the early hours of Saturday and moved eastward. Widespread mist and fog developed and showers remained throughout the day in places. Winds were mainly light between southwest and northwest.

Rainfall: nil to 3mm generally, 10mm in Belmullet & 15mm at Casement

Temperature: max. 17°C to 22°C, min. 10°C to 14°C

Sunshine: 1 to 3 hours in the east, 4 to 11 hours elsewhere

Sunday 27th: During the morning the showers were most frequent in the western half of the country but became widespread during the afternoon with some heavy and thundery. Winds were generally light to moderate westerly. The showers died out during the evening as a ridge of high pressure built from the west.

Rainfall: trace to 2mm on west & south coasts, 4 to 10mm inland

Temperature: max. 16°C to 20°C, min. 9°C to 12°C

Sunshine: 5 to 10 hours

Monday 28th: A weak ridge from the northwest extended over much of the country during the day but low pressure to the southwest kept it much duller in parts of Munster. Overnight widespread mist and fog formed and this lingered through the morning in many midland and eastern areas. Some scattered showers chiefly in the west. Winds were generally light variable.

Rainfall: nil to 3mm

Temperature: max. 16°C to 20°C, min. 7°C to 12°C

Sunshine: 2 to 8 hours generally, up to 13 hours in Malin Head

Tuesday 29th: Low pressure and an occluded front to the southwest of the country tracked away southeastwards as the ridge from the northwest slowly intensified. Cool overnight with a good deal of mist and fog which cleared most areas in the early morning. A fine day almost everywhere with only the odd isolated shower. In south Munster there was some light rain and drizzle at times through the morning. Winds were mostly light variable.

Rainfall: nil or trace

Temperature: max. 17°C to 23°C, min. 7°C to 14°C

Sunshine: trace to 2 hours in the extreme south, 7 to 13 hours elsewhere

Wednesday 30th: An anticyclone declined as frontal troughs approached from the Atlantic in a freshening airstream. Clear skies everywhere except Cork, with occasional mist or fog in places until mid morning. By early evening cloud began to increase in the west and brought outbreaks of rain to western and northern coastal areas by end of day.

Rainfall: nil to 1mm generally, 9mm in Belmullet

Temperature: max. 18°C to 22°C, min. 5°C to 13°C, ground temperatures down to -1°C in Kilkenny

Sunshine: 4 to 10 hours

Thursday 31st: A depression approached from the northwest, leaving Ireland in an unstable, west to northwesterly airflow. A frontal trough crossed the country during the morning. Outbreaks of heavy rain in the west gradually moved eastwards crossing the east coast by late morning and heavy showers followed in its wake. Winds were southwest to westerly and gusty.

Rainfall: 2 to 3mm in the east and at Malin Head, 7 to 10mm generally, 15mm at Connaught Airport, 23mm in Clones

Temperature: max. 16°C to 21°C, min. 11°C to 14°C

Sunshine: 5 to 9 hours

TABLES

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County / Station

TEMPERATURE (°C)

Mean max.

Mean min.

Mean/ deviation from average

Highest max./date

Lowest min./date

Lowest grass min./date

CO. CLARE

SHANNON AIRPORT

20.5

12.9

16.7

1.1

24.9

24

8.5

20

3.6

28

CARRON

19.0

10.9

15.0

0.9

23.1

24

5.0

18

1.5

21

CO. CORK

FERMOY (MOORE PARK)

19.9

11.0

15.5

0.7

23.5

6

24

4.0

18

2.6

18

CORK AIRPORT

19.1

12.4

15.8

1.2

23.3

24

8.4

18

3.8

21

SHERKIN ISLAND

18.8

12.8

15.8

0.8

22.5

24

7.9

18

20

5.9

20

CO. DONEGAL

MALIN HEAD

17.4

12.4

14.9

0.8

21.4

11

8.0

20

5.8

25

BALLYSHANNON (CATHLEEN'S FALL)

18.9

12.0

15.5

1.0

22.6

23

6.9

19

LETTERKENNY (MAGHERENAN)

20.4

9.9

15.2

1.1

24.0

1

5.0

20

25

CO. DUBLIN

DUBLIN (PHOENIX PARK)

20.6

11.0

15.8

1.0

23.4

24

6.1

30

1.6

30

DUBLIN AIRPORT

19.8

11.0

15.4

22.5

6

5.4

30

2.7

21

CASEMENT AERODROME

20.0

11.2

15.6

0.8

22.6

24

5.2

24

2.9

30

DUBLIN (MERRION SQUARE)

20.2

13.7

17.0

1.1

24.0

6

10.4

18

30

CO. GALWAY

GALWAY (UNIV. COLL.)

20.2

12.3

16.3

1.1

23.7

23

7.4

20

-1.5

20

MAAM VALLEY

19.2

11.8

15.5

24.7

24

7.3

18

4.0

18

CONNEMARA NATIONAL PARK

18.6

11.9

15.3

1.1

23.8

25

7.2

18

BALLYGAR

20.7

11.0

15.9

24.9

24

4.5

18

3.0

18

CO. KERRY

VALENTIA OBSERVATORY

18.4

12.7

15.6

0.6

23.7

24

7.3

19

5.0

19

ARDFERT (LISCAHANE)

19.7

11.7

15.7

0.8

25.2

24

5.9

19

4.1

19

CO. KILKENNY

KILKENNY

21.0

10.6

15.8

0.9

24.1

24

4.7

21

-0.7

21

CO. LEITRIM

BALLINAMORE

19.9

10.4

15.2

1.0

24.0

24

4.5

20

3.0

30

CO. LIMERICK

MOUNT RUSSELL

18.8

11.7

15.3

22.8

24

7.8

19

4.4

19

CO. LOUTH

ARDEE (BOHARNAMOE)

21.2

10.2

15.7

1.3

23.9

5

4.3

20

1.1

20

CO. MAYO

BELMULLET

18.8

12.1

15.5

1.2

22.7

25

6.4

18

3.6

18

STRAIDE

19.6

10.3

15.0

0.6

24.1

24

3.4

18

-1.7

21

CONNAUGHT AIRPORT

17.8

11.0

14.4

21.8

24

7.5

21

3.6

19

CO. MEATH

WARRENSTOWN

20.2

11.6

15.9

1.3

23.4

24

7.6

30

3.5

21

CO. MONAGHAN

CLONES

20.1

10.9

15.5

1.2

23.2

24

5.2

20

1.4

20

CO. OFFALY

BIRR

20.3

10.9

15.6

0.9

24.6

23

5.6

29

2.0

20

DERRYGREENAGH

20.5

10.1

15.3

1.0

23.8

24

5.1

21

-0.1

20

CO. SLIGO

ARDTARMON

19.4

11.9

15.7

22.1

23

7.8

20

5.2

19

CO. TIPPERARY

FETHARD (PARSONSHILL)

20.0

10.7

15.4

23.3

24

7.1

18

2.3

18

CO. WATERFORD

WATERFORD (TYCOR)

21.0

11.8

16.4

1.2

24.4

24

6.6

18

DUNGARVAN (CARRIGLEA)

20.5

11.3

15.9

0.6

23.5

6

4.6

21

4.3

21

CO. WESTMEATH

MULLINGAR II

20.1

10.5

15.3

1.0

23.5

24

4.7

18

20

1.4

20

CO. WEXFORD

JOHNSTOWN CASTLE

19.6

11.3

15.5

0.7

23.7

6

7.4

19

1.8

28

ROSSLARE

19.5

13.0

16.3

1.1

23.9

6

9.6

18

4.2

20

29

CLONROCHE

20.3

11.5

15.9

1.2

24.0

6

5.4

21

-1.7

21

JOHN F. KENNEDY PARK

19.8

11.3

15.6

0.6

22.8

6

6.4

19

2.0

18

19

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TABLES

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County / Station	RAINFALL (MM)				SUNSHINE (HOURS)			
	Total amount	% of average	Most in a day/date		Daily mean (hrs./day)	% of average	% of possible	Most in a day/date
CO. CLARE								
SHANNON AIRPORT	79.4	97	13.4	31	6.29	142	43	13.1 23
CARRON	110.5	79	27.0	31				
CO. CORK								
FERMOY (MOORE PARK)	55.2	73	11.1	18	5.03	109	34	10.8 24
CORK AIRPORT	41.9	47	8.7	21	5.64	107	39	13.2 24
SHERKIN ISLAND	56.6	64	14.1	26	6.70	127	46	12.9 19
CO. DONEGAL								
MALIN HEAD	100.2	109	30.9	8	6.37	148	42	12.9 22 28
BALLYSHANNON (CATHLEEN'S FALL)	113.0	114	32.4	8	5.73	141	38	13.1 23
LETTERKENNY (MAGHERENAN)	75.7	95	18.5	8				
CO. DUBLIN								
DUBLIN (PHOENIX PARK)	91.5	125	17.3	25	5.14	113	35	11.0 24
DUBLIN AIRPORT	62.7		11.8	25	5.56	110	38	12.4 29
CASEMENT AERODROME	106.9	155	15.5	25	5.65	118	38	12.5 24 29
DUBLIN (MERRION SQUARE)	70.9	111	12.8	25				
CO. GALWAY								
GALWAY (UNIV. COLL.)	93.8	93	25.7	15	6.26	132	42	13.6 22
MAAM VALLEY	219.5		62.1	8				
CONNEMARA NATIONAL PARK	193.3	146	43.5	8				
BALLYGAR	77.6	84	14.9	18				
CO. KERRY								
VALENTIA OBSERVATORY	91.9	82	12.6	1	4.89	109	33	12.8 19 24
ARDFERT (LISCAHANE)	131.5		27.5	18	5.26		38	12.9 19
CO. KILKENNY								
KILKENNY	64.1	90	11.0	17	5.96	132	41	13.4 23
CO. LEITRIM								
BALLINAMORE	131.9	129	24.8	18	5.59	133	37	11.9 24
CO. LIMERICK								
MOUNT RUSSELL	89.9		17.5	2				
CO. LOUTH								
ARDEE (BOHARNAMOE)	82.2	111	20.0	18				
CO. MAYO								
BELMULLET	137.4	146	32.9	8	5.70	123	38	13.4 22
STRAIDE	122.9	122	29.8	17	5.38			12.8 23
CONNAUGHT AIRPORT	143.3		19.1	15	5.32		36	12.6 22
CO. MEATH								
WARRENSTOWN	128.5	165	24.4	20				
CO. MONAGHAN								
CLONES	110.1	128	16.9	7	5.53	136	37	11.9 23
CO. OFFALY								
BIRR	72.9	93	14.0	17	5.59	135	38	12.5 24
DERRYGREENAGH	45.0	60	6.7	30				
CO. SLIGO								
ARDTARMON	140.9		36.7	8				
CO. TIPPERARY								
FETHARD (PARSONSHILL)	58.6		10.0	7				
CO. WATERFORD								
WATERFORD (TYCOR)	33.9	43	5.5	26				
DUNGARVAN (CARRIGLEA)	60.4		12.4	19	5.78		38	13.0 24
CO. WESTMEATH								
MULLINGAR II	67.1	81	8.5	30	6.05	138	41	12.6 24
CO. WEXFORD								
JOHNSTOWN CASTLE	46.2	56	7.5	31	6.16	112	42	12.9 24
ROSSLARE	55.6	78	17.7	25	6.94	119	47	13.4 18
CLONROCHE	73.5	77	14.3	25	6.10	118	41	12.5 23
JOHN F. KENNEDY PARK	68.0	83	17.0	25	5.95	120	40	12.2 23

TABLES

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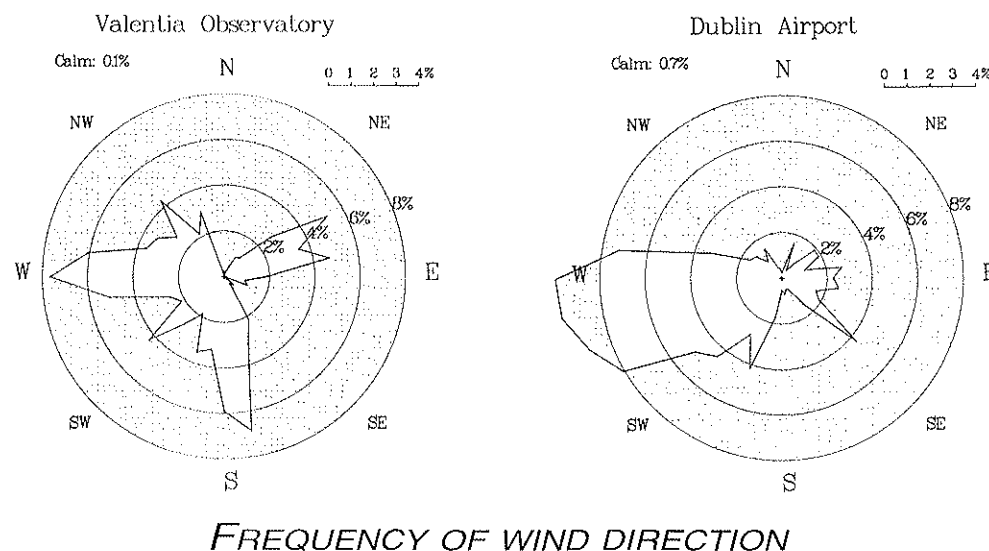
County / Station	WEATHER — No. OF DAYS WITH									MEAN 0900 SOIL TEMPERATURES (°C)		
	Rain	Wet	Air	Ground	Snow	Snow	Hail	Thunder	Fog	10cm	20cm	30cm
	days	days	frost	frost		lying						
CO. CLARE												
SHANNON AIRPORT	19	11	0	0	0	0	0	1	3	17.0	17.6	18.0
CARRON	21	17	0	0						16.1		16.8
CO. CORK												
FERMOY (MOORE PARK)	18	14	0	0						16.0	15.8	16.5
CORK AIRPORT	18	11	0	0	0	0	0	0	9	15.6	15.6	17.3
SHERKIN ISLAND	18	13	0	0						17.0		17.4
CO. DONEGAL												
MALIN HEAD	17	12	0	0	0	0	0	3	1	15.1	15.6	16.2
BALLYSHANNON (CATHLEEN'S FALL)	20	17	0									
LETTERKENNY (MAGHERENAN)	21	13	0									
CO. DUBLIN												
DUBLIN (PHOENIX PARK)	22	16	0	0								
DUBLIN AIRPORT	19	12	0	0	0	0	1	5	8	15.9	15.6	15.7
CASEMENT AERODROME	18	15	0	0	0	0	0	5	3	15.1	15.7	16.4
DUBLIN (MERRION SQUARE)	18	12	0									
CO. GALWAY												
GALWAY (UNIV. COLL.)	22	17	0	2								
MAAM VALLEY	23	17	0	0								
CONNEMARA NATIONAL PARK	25	22	0									
BALLYGAR	25	17	0	0								
CO. KERRY												
VALENTIA OBSERVATORY	26	22	0	0	0	0	0	1	3	15.9	16.2	17.2
ARDFERT (LISCAHANE)	25	20	0	0								
CO. KILKENNY												
KILKENNY	20	12	0	2		0				16.6	17.1	17.9
CO. LEITRIM												
BALLINAMORE	24	17	0	0						15.3	16.0	16.5
CO. LIMERICK												
MOUNT RUSSELL	25	16	0	0						14.2	15.3	
CO. LOUTH												
ARDEE (BOHARNAMOE)	18	12	0	0						17.0	17.3	17.2
CO. MAYO												
BELMULLET	21	17	0	0	0	0	0	5	2	16.1	17.4	18.6
STRAIDE	20	16	0	5						15.8		
CONNAUGHT AIRPORT	23	20	0	0	0	0	0	1	15	14.6	14.5	15.5
CO. MEATH												
WARRENSTOWN	19	14	0	0						16.3	16.7	17.8
CO. MONAGHAN												
CLONES	24	14	0	0		0				16.0	16.2	17.0
CO. OFFALY												
BIRR	18	12	0	0		0				16.0	16.9	17.8
DERRYGREENAGH	19	13	0	1								
CO. SLIGO												
ARDTARMON	22	19	0	0								
CO. TIPPERARY												
FETHARD (PARSONSHILL)	21	14	0	0						15.1	16.2	
CO. WATERFORD												
WATERFORD (TYCOR)	17	13	0									
DUNGARVAN (CARRIGLEA)	20	12	0	0							16.8	17.2
CO. WESTMEATH												
MULLINGAR II	22	18	0	0		0				15.9	16.5	17.8
CO. WEXFORD												
JOHNSTOWN CASTLE	17	14	0	0						16.3	16.2	16.7
ROSSLARE	18	13	0	0	0	0	0	3	3	16.9	16.8	17.8
CLONROCHE	17	16	0	3						15.1	16.4	16.9
JOHN F. KENNEDY PARK	16	15	0	0						16.3	16.5	17.4

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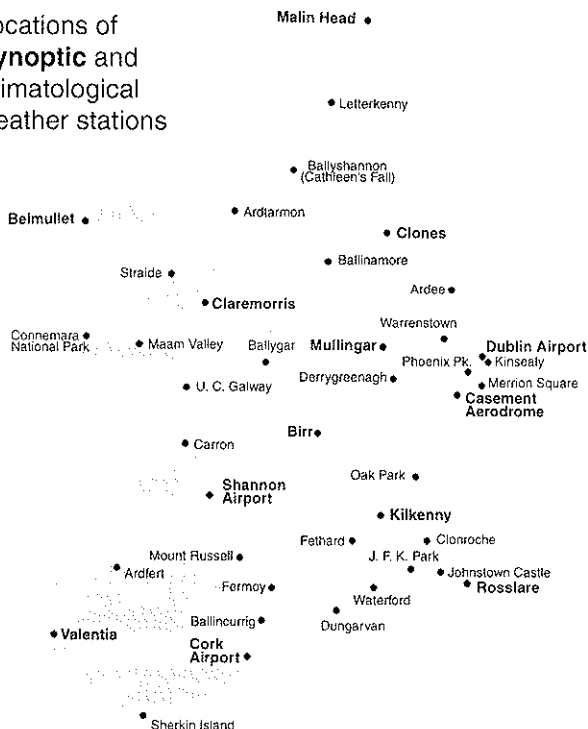
TABLES

County / Station	WIND (KNOTS)											
	Mean	Max. 10-min.	mean		Max. Gust		Days with	Hours with			Valentia	Belmullet
	speed	dir.	speed	date/hour	dir.	speed	date/time	gales	gale gusts	gale gusts		
CO. CLARE												
SHANNON AIRPORT	6.9	200°	21	1/13	270°	30	31/1537	0	0	0		
CO. CORK												
CORK AIRPORT	8.0	210°	25	1/17	210°	39	1/1619	0	1	4		
CO. DONEGAL												
MALIN HEAD	10.2	180°	28	31/04	180°	42	31/0329	0	3	16		
CO. DUBLIN												
CASEMENT AERODROME	7.2	200°	24	9/10	200°	35	31/0754	0	1	1		
DUBLIN AIRPORT	7.8	210°	23	9/12	210°	34	9/1118	0	1	1		
CO. KERRY												
VALENTIA OBSERVATORY	7.4	210°	22	1/12	200°	32	1/1254	0	0	0		
CO. KILKENNY												
KILKENNY	5.4	180°	22	1/16	190°	31	1/1544	0	0	0		
CO. MAYO												
BELMULLET	10.6	200°	31	8/23	200°	52	8/2250	0	5	28		
CONNAUGHT AIRPORT	7.1	200°	22	31/04	170°	32	1/1449	0	0	0		
					200°	32	31/0318					
CO. MONAGHAN												
CLONES	5.7	300°	19	2/17	110°	29	25/2029	0	0	0		
CO. OFFALY												
BIRR	5.6	180°	17	1/16	180°	28	1/1520	0	0	0		
CO. WESTMEATH												
MULLINGAR II	5.3	190°	16	1/14	190°	25	1/1517	0	0	0		
CO. WEXFORD												
ROSSLARE	8.6	210°	23	1/17	240°	34	2/0259	0	1	1		
		40°	23	25/10								

Daily mean wind speeds and maximum significant gusts (34 knots or more)



Locations of Synoptic and Climatological weather stations



The **Monthly Weather Bulletin** is produced by the Climatology and Observations Division of Met Éireann. The annual subscription to the bulletin costs £36. Further climatological information is available from the Climate Enquiries Office, Glasnevin Hill, Dublin 9, telephone 01-8064250, fax 01-8064216.

NOTES ON THE TABLES

A. General

1. Rainfall amounts are given in millimetres, temperature in degrees Celsius, sunshine duration in hours and wind speed in knots.
(1 knot=1.15 m.p.h.)
2. At all stations daily rainfall totals refer to the 24-hour period ending at 0900UTC the following day. The term rainfall includes all forms of precipitation, such as snow and hail, and deposition from dew or frost, measured as equivalent rain.
3. 'Raindays' and 'weldays' are days during which the total rainfall is not less than 0.2mm and 1.0mm respectively.
4. A 'day' for the purposes of this publication refers to the period from 0900UTC on a particular day to 0900UTC on the following day. (This is because climatological stations make their daily observations at 0900UTC.)
5. The mean daily air temperature over a period is taken as the mean of the daily maxima and daily minima (averaged separately over the period).
6. Days with air frost are those during which the minimum air temperature was below 0°C. Similarly days with ground frost indicate days when the grass minimum temperature was below 0°C. (Grass minimum temperatures are measured by a thermometer placed horizontally on pegs just above the tips of short grass.)
7. Mean soil and earth temperatures are based on readings taken at 0900UTC.
8. A gale is a mean wind over a 10 minute period of 34 knots or more. A gale gust is a gust of 34 knots or more. All wind speeds refer to the wind at an effective height of 10 metres above the ground.
9. 'e' denotes that the value is calculated using one or more estimated readings.
10. Data from Northern Ireland is kindly provided by the Belfast Weather Centre.

B. Agmet

11. Calculated Potential Evapotranspiration (P.E.) values are based on values of temperature, sunshine, wind speed and vapour pressure using the Panman formula. Because of formula limitations, negative values can occur in winter; these are replaced in the table by zero. Measured P.E. values are those measured by means of soil-filled tanks sunk into the ground with their upper grass-covered ends at surface level.
12. Soil moisture deficits and surpluses are computed from the differences between rainfall and actual evapotranspiration (A.E.). Estimates of A.E. are derived from measured values of P.E. (See Agmet. Memo No. 1, 1968). Soil moisture surpluses are assumed to be removed by drainage and surface run-off and are not therefore carried forward from one period to the next. Soil moisture deficits are regarded as being cumulative. Where heavy rain occurs near the end of the fixed period, the date of cut-off may be adjusted to avoid error due to insufficient run-off time.
13. Degree day totals are calculated using the method set out by McVicker in the Journal of the Institution of Heating and Ventilating Engineers (Vol. 14 No. 38, Nov-Dec 1946).
14. Global solar radiation values are given in MJ/sq.m. correct to two decimal places (3.6MJ=1kWh).
15. Daily samples of air and precipitation are taken at Valentia Observatory at 1000UTC each day. Monthly precipitation samples at other stations are taken at 1200UTC on the 1st of each month.
16. Air sample data are given in microgrammes per cubic metre, electrical conductivity in micro-Siemens per centimetre and pH in pH units.

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