# Monthly Weather Bulletin

No. 208 **AUGUST 2003** 







Thousands die in European heatwave

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Summer 2003 16
Warmest summer

Produced by Met Éireann, Glasnevin Hill, Dublin 9. Annual subscription 60

since 1976 at Malin Head

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Notes on the tables and map showing location of stations appear in each January issue



The Bank Holiday weekend early in the month, like much of August, brought warm and sunny weather. Pictured here is a scene from Mullaghmore beach, Co. Sligo (Picture Evelyn Murphy)

## DRY, SUNNY AND VERY WARM

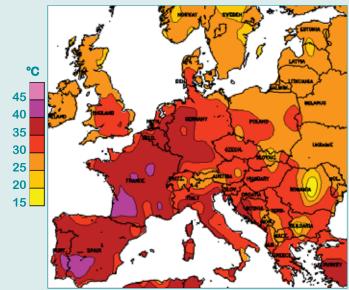
**Summary:** The weather of August was dominated by areas of high pressure near or over Ireland. This anticyclonic weather gave dry and sunny conditions generally, with temperatures rising above 20°C at one or more stations on all but a few days at the end of the month. Although mean air temperatures overall were around two degrees higher than normal in most places, at no station was it as warm as the record-breaking month of August 1995. The period between the 4th and 8th of the month was particularly hot, when

temperatures rose above 25°C in many places during the day and remained above 15°C at night. Both Belmullet and Claremorris recorded their highest August maxima in around 50 years of observations on the 8th with values of 27.7°C and 29.5°C respectively. Rainfall totals for the month were only around a quarter of normal generally. It was the driest August since 1976 at both Rosslare and Birr, while Kilkenny's total of just over 1mm was its lowest for August since records began there in 1957.

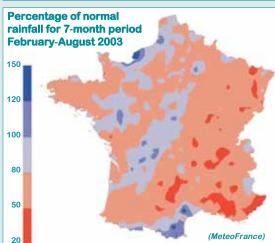
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# **European heatwave responsible for thousands of deaths**

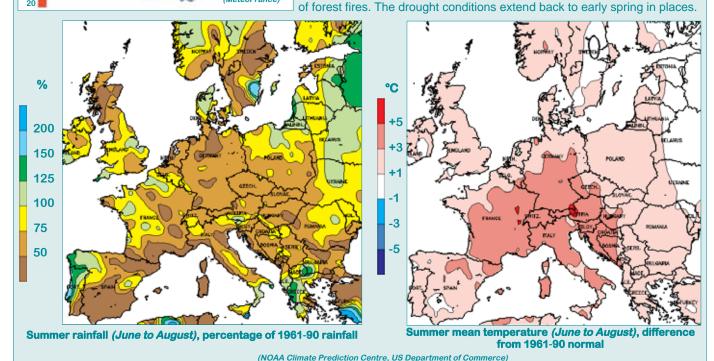




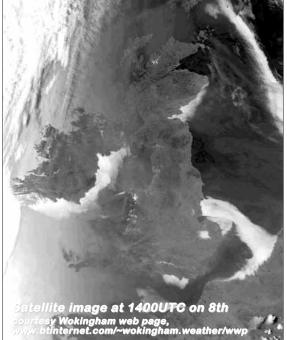
Maximum temperatures during the week of August 3rd-10th (NOAA Climate Prediction Centre, US Department of Commerce)



In contrast to the summer of 2002, which saw record-breaking floods over central Europe, this summer brought exceptionally hot and dry weather over most countries of western Europe. The intense heatwave of the first half of August claimed the lives of many thousands of people, many of whom were elderly. France, Portugal and Italy were the worst affected countries. By comparing mortality rates during the first half of this month with the same period last year, an estimated 15,000 people died in France alone due to the *canicule*, or heawave conditions. Maximum temperatures rose above 35°C on more than ten days during the month over central and southern France, with over 40°C recorded on six or more days in places. Critically, minimum temperatures of over 25°C between the 10th and 13th, in combination with increased levels of atmospheric pollution and little or no wind for ventilation, had significant effects on public health. The extreme heat and, apart from isolated thunderstorms, lack of rainfall worsened the continuing drought, leading to widespread problems with the supply of drinking water, electricity generation, agricultural production and outbreaks



# Right High pressure over the country during the early part of the month brought fine weather to most areas, but sea fog affected coastal areas of the south and east at times.

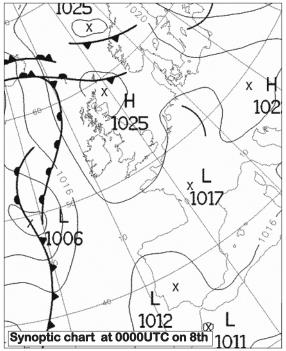


There were only between 3 and 7 wetdays during the month at the majority of stations (days with 1mm or more of rainfall). After a very dull July in many places, sunshine totals were well above normal everywhere this month; Valentia Observatory's total of 203 hours was its highest for August since 1968.

**1st to 3rd:** Warm and mainly dry with light southwesterly winds. A few light showers at times, with a frontal system near the southwest coast on the 3rd. Cloud amounts were variable with most sunshine in the south and southeast.

**4th to 8th:** Very warm and humid with temperatures reaching over 25°C in many places. Mostly dry but with isolated thunderstorms at times and more widespread thundery rain on the 5th. Sunny generally, but patches of coastal fog were persistent at times. Light variable winds.

**9th to 16th:** A cold front moving eastwards on the 9th introduced somewhat cooler and less humid conditions, but high pressure building from the southwest of the country continued to give generally dry weather with light southwesterly or variable winds. Sunny on most days.



**17th to 25th:** High pressure retreated southwards, allowing Atlantic frontal systems to cross the country. These brought cloudier conditions with rain at times, although amounts were generally small. Temperatures remained above normal.

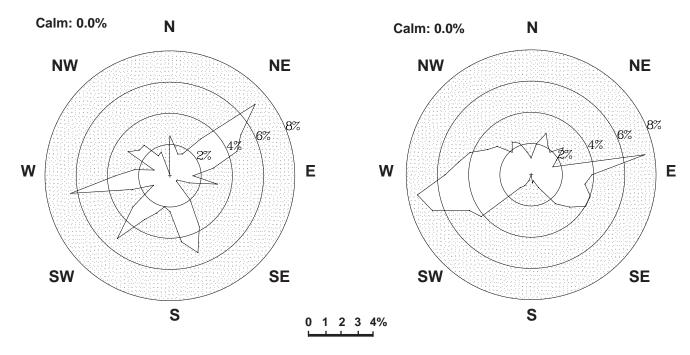
**16th to 31st:** Moderate easterly winds, later backing northerly, brought a drop in daytime temperatures, while minimum ground temperatures fell close to freezing at inland stations. A spell of rain affected Munster on the 26th; otherwise there were showers at times during the period, particularly in coastal areas, but many places were dry with clear spells.

Wind and elements: Mean windspeeds for the month were below normal everywhere. They varied between 6 and 9 knots (7 and 10m.p.h.) generally and were the lowest for August for 20 or more years at some stations. Gale gusts were mainly confined to coastal stations, with the highest gust, 43 knots (50m.p.h.), recorded at Malin Head on the 17th. Thunder was recorded in the periods 4th to 6th and 9th to 10th; these were mostly isolated but they were widespread and heavy on the 5th, causing disruption to power supplies in places. Fog was most widespread in the periods 6th to 9th and 20th to 24th.

			ELEMENTS													
County / Station	Mean Max. 10-min. mean speed dir. speed date/hour			Max. Gust dir. speed date/time			s with gale gusts	Hours with gale gusts	No. of Days with Snow Snow Lying Hail Thunder Fog							
	ა <b>ხ</b> ееи	uii. speeu	uatemoul	ull.	specu	uatertime	yaics	yaie yusis	yale gusts	JIIOW	Jilow Lyllig	Hall	Illulluci	Tog		
CO. CLARE			/			/								_		
SHANNON AIRPORT	6.8	240° 25	21/16	250°	34	21/1503	0	1	1	0	0	0	0	3		
CO. CORK																
CORK AIRPORT	7.6	240° 20	,	240°	30	21/1432	0	0	0	0	0	0	0	9		
		010° 20	29/10													
CO. DONEGAL																
MALIN HEAD	11.2	180° 28	17/13	170°	43	17/1235	0	4	29	0	0	0	1	3		
CO. DUBLIN																
CASEMENT AERODROME	6.4	250° 25	21/16	240°	33	21/1541	0	0	0	0	0	0	2	3		
DUBLIN AIRPORT	7.8	250° 25	21/17	240°	38	21/1552	0	1	6	0	0	0	1	5		
CO. KERRY																
VALENTIA OBSERVATORY	6.2	220° 18	21/11	220°	29	21/1013	0	0	0	0	0	0	0	0		
		100° 18	25/11	060°	29	24/2146						-				
CO. KILKENNY			- /			,										
KILKENNY	5.2	230° 20	21/17	230°	29	21/1606	0	0	0	n/a	0		n/a			
CO. MAYO	3.2	200 20	22,21	200		22/2000				11, 6			127 02			
BELMULLET	9.6	190° 27	21/01	190°	39	21/0152	0	4	11	0	0	0	1	4		
CONNACHT AIRPORT	7.0	170° 19	17/11	170°		17/0955	0	0	0	0	0	0	1	10		
OJIMIOHI MINIONI	7.0	260° 19	21/18	1,0	71	11/0000							-	10		
CO. MONAGHAN		200 17	21/10													
CLONES	5.6	200° 18	21/03	240°	28	21/1312	0	0	0	n/a	0		n/a			
CO. OFFALY	٥.٥	200 10	41/03	240	40	41/1314	"	U	0	11/ d			11/ a			
BIRR	5.2	230° 19	21/12	230°	29	21/1149	0	0	0	n/a	0		2/2			
	5.2	230 19	21/12	23U°	49	21/1149	0	U	U	11/d	"		n/a			
CO. WESTMEATH	F 0	0000 11	01/10	0000	0.6	01/1000				,			,			
MULLINGAR II	5.0	220° 16	21/10	220°	26	21/1028	0	0	0	n/a	0		n/a			
CO. WEXFORD						/										
ROSSLARE	9.3	040° 33	28/23	040°	42	28/2249	0	3	22	0	0	0	0	2		
		050° 33	29/01													

## **Valentia Observatory**

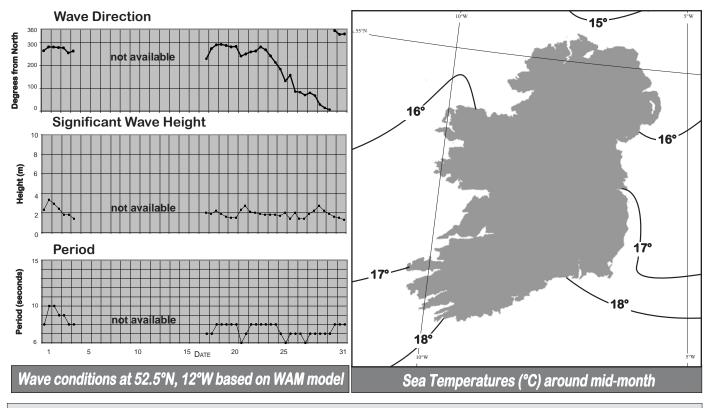
## **Dublin Airport**



FREQUENCY OF WIND DIRECTION

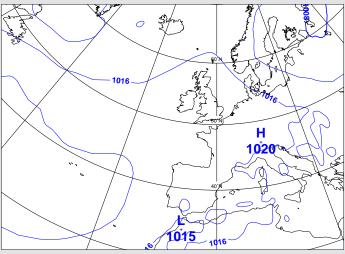
#### **SEA TEMPERATURES**

The higher than normal air temperatures during the summer were reflected in sea temperatures during this month, which were between one and two degrees above normal near most coasts and over two degrees above normal in the south. At mid-month they ranged from over 15°C off the north coast to over 18°C in the south. Malin Head's mean sea temperature of 16.0°C was over a degree higher than normal.

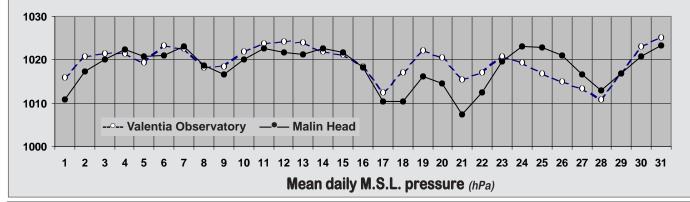


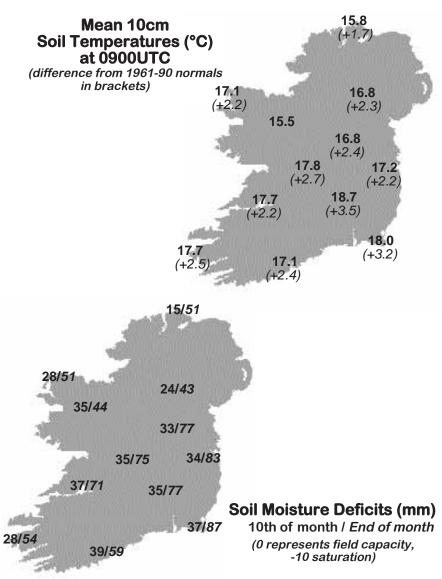
### MEAN ATMOSPHERIC PRESSURE

Mean sea level pressure values for the month of around 1019hPa were almost uniform across the country. They were above normal everywhere, by around 4hPa in the south and by 6hPa in the north. Pressure was fairly uniform throughout the month, with high pressure dominating during the first half and again near the end. The highest value, 1027.1hPa, was measured at Belmullet on the 31st. A depression well to the north of Ireland on the 21st brought the lowest values of the month, with the lowest pressure, 1004.2hPa, recorded at Malin Head on this day.



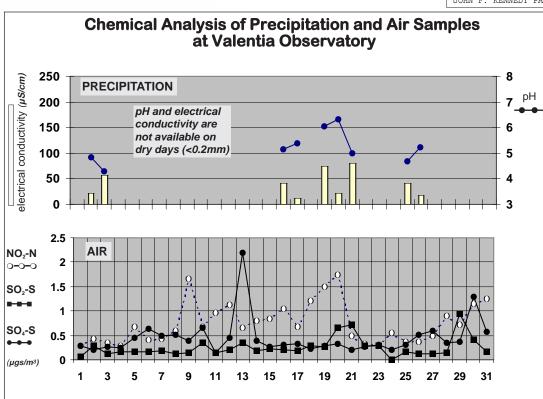
The above map is based on monthly means of 1200 UTC values





#### Soil Temperatures at 0900UTC

County/		°C	
Station	100mm	200mm	300mm
CO. CLARE			
SHANNON AIRPORT	17.7	18.2	18.5
CARRON	17.2		17.7
CO. CORK			
FERMOY (MOORE PARK)	17.5	17.2	17.8
CORK AIRPORT	17.1		17.5
SHERKIN ISLAND	17.5		17.9
BALLINCURRIG (PEAFIELD)	16.6	16.5	17.3
CO. DONEGAL			
MALIN HEAD	15.8	16.1	16.6
CO. DUBLIN		20.2	20.0
DUBLIN AIRPORT	16.6	17.1	17 6
CASEMENT AERODROME	17.2	17.1	
CO. KERRY	17.2	11.0	11.0
VALENTIA OBSERVATORY	17.7	17 7	18.7
	1/./	17.7	10.7
CO. KILKENNY	10.7	10 1	10 5
KILKENNY	18.7	19.1	19.5
CO. LEITRIM			
BALLINAMORE	16.2	16.7	17.3
CO. LIMERICK			
MOUNT RUSSELL	16.4	17.0	
CO. LOUTH			
ARDEE (BOHARNAMOE)	17.5	18.0	17.7
CO. MAYO			
BELMULLET	17.1	17.8	18.7
STRAIDE	16.8		
CONNACHT AIRPORT	15.5	16.0	16.7
CO. MEATH			
WARRENSTOWN	16.8	18.0	18.7
CO. MONAGHAN	-3.0		
CLONES	16.8	17.0	17.5
CO. OFFALY	1 -0.0	11.0	17.5
BIRR	17.8	1.2 /	18.4
CO. TIPPERARY	1/.0	10.4	10.4
	16 7	17 4	
FETHARD (PARSONSHILL)	16.7	17.4	
CO. WATERFORD		15 6	10 0
DUNGARVAN (CARRIGLEA)		17.6	18.0
CO. WESTMEATH			
MULLINGAR II	16.8	17.2	18.5
CO. WEXFORD			
JOHNSTOWN CASTLE	18.1	18.2	18.2
ROSSLARE	18.0	18.2	18.5
CLONROCHE	16.6	17.5	
JOHN F. KENNEDY PARK	18.1	18.3	18.5



Acid rain occurs when pollutants combine with moisture in the air to form sulphuric or nitric acid. pH is the simplest way of measuring the acidity of precipitation. Usually pH of 7.00 is considered neutral but this is not the case in rainfall samples. Pure water in the atmosphere has an equilibrium pH value of 5.65 at 20°C owing to carbon dioxide in the air dissolving to form carbonic acid. Any value below pH 5.65 is considered acid while any value above is considered alkaline.

Sulphur dioxide and sulphate in air contribute to the formation of sulphuric acid; nitrate in air contributes to the formation of nitric acid.

Conductivity measures the total ion activity in the rainfall, i.e. the higher the conductivity the greater the number of ions present.

10-DAY VALUES FOR		R	4 <i>INI</i>	FALL				TE	MPE	RA	ΤU	RE							Sunsi	HINE		
AGROMETEOROLO STATIONS  Station	period	amount	% of average	rain days wet days	теап тах.	mean min.	mean daily	diff. from average	lowest min.	date	days with air frost	degree days > 4.4°C	degree days > 10.0°C	owest "grass-min."	date	days with ground frost	nean 10cm at 0900h	mean 30cm at 0900h	otal no. of hours	% of average	mean wind speed (m/s) 2ma.g.l.	P.E. (Penman) (mm)
Co. Cork	1-10	0.0	-	0 0		<u>∈</u> 12.9		<del>-</del> = -	8.8	_ <del>-88</del>	0	135	80	<u> </u>	2		<u>∈</u> 18.3			%	2.1	
Fermoy	11-20	1.3	-	2 0	21.1		15.3	-	5.7	18	0	109	57		18		17.3		-	-	1.7	
1	21-end	2.2	-	2 1	20.6	12.0	16.3	-	4.6	30	0	131	72	0.0	30	0	16.9	17.3	_	-	2.8	
	month	3.5	5	4 1	21.5	11.5	16.5	1.7	4.6	30	0	376 2	208	0.0	30	0	17.5	17.8	-	-	2.2	-
Co. Donegal	1-10	22.8	_	5 3	22.4	13.4	17.9	_	9.9	2	0	135	79	7.9	2	0	_	_	_	_	-	_
Glenties	11-20	34.6	-	5 5	19.2	9.8	14.5	-	5.8	15	0	101	48	4.6	15	0	-	-	-	-	-	-
	21-end	10.1	-	5 2	19.3	10.1	14.7	-	4.9	30	0	113	56	3.3	30	0	-	-	-	-	-	-
	month	67.5	55	15 10	20.3	11.0	15.7	1.7	4.9	30	0	349 1	183	3.3	30	0	-	-	-	-	-	-
Co. Kerry	1-10	1.7	_	3 1	23.1	13.4	18.3	_	10.7	10	0	139	83	7.5	7	0	-	_	70.9	-	-	-
Ardfert	11-20	8.3	-	3 3	21.3	11.0	16.2	-	7.8	14	0	117	62	4.1	14	0	-	-	63.4	-	-	-
	21-end	4.2	-	4 3		12.2		-	5.7	29	0	139	80	1.1	30	0	-	-	66.9	-	-	-
	month	14.2	-	10 7	22.1	12.2	17.2	2.3	5.7	29	0	395 2	225	1.1	30	0	-	-	201.2		-	-
Co. Leitrim	1-10	1.5	-	2 1	23.9	13.8	18.9	-	10.5	2	0	145	89	7.5	2	0	6.0	17.7	62.3	-	-	-
Ballinamore	11-20	6.7	-	3 2	20.5		14.8	-	4.5	16	0	103	51		14		11.0		72.1	-	-	-
	21-end	11.0	-	4 2		11.3		-	6.0		0	120	60	0.2			16.3		51.9	-	-	-
	month	19.2	19	9 5	21.2	11.4	16.3	2.1	4.5	16	0	368 2	200	0.2	30	0	11.3	17.3	186.3	152	-	-
Co. Louth	1-10	5.6	-	5 1		16.6		-	16.6	1	0	163 1		7.2	2		18.6		-	-	-	-
Ardee	11-20	1.8	-	2 1		16.6		-	16.6	11	0	154	98	2.2			16.6		-	-	-	-
	21-end	2.0	-	3 1		11.5		-	5.5	30		129	70		30		16.8		-	-	-	-
	month	9.4	13	10 3	22.7	14.8	18.8	2.7	5.5	30	0	445 2	275	2.0	30	0	17.3	17.7	-	-	_	-
Co. Waterford	1-10	0.0	-	0 0		13.6		-	8.5	2	0	137	82	6.5	2	0	-	18.4	68.5	-	0.9	
Dungarvan	11-20	1.5	-	1 1		10.1		-	7.1		0	114	60		16	0	-	18.0	79.0	-	0.6	
	21-end	3.0	-	3 2		13.4		-	7.5			139	78		30	0	-	17.6	57.9	-	1.1	
	month	4.5	-	4 3	21.6	12.4	17.0	1.7	7.1	16	0	390 2	221	5.5	16	0	-	18.0	205.4	148	0.9	72
Co. Wexford	1-10	1.2	-	2 1		14.0		-	9.6	2		139	83	7.4	2		18.9		71.4	-	0.7	
Johnstown Castl	-	2.0	-	1 1		12.1		-	10.0			116	60	8.0			18.2		73.9	-	0.5	
	21-end	7.4	-	3 3		13.5		-	8.4		0	139	78		31		17.4		56.9	-	1.0	
	month	10.6	13	6 5	21.0	13.2	17.1	2.3	8.4	31	0	394 2	221	3.0	31	0	18.1	18.2	202.2	123	0.7	71
																					ĺ	

## MEASURED POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

	–				
County/ Station	Period	P.E. (mm) Amount		Soil Moisture Accumulated Deficit	
Co. Dublin					
Kinsealy	1-10 11-20 21-end month	26.8 37.0 30.2 <b>94.0</b>	18 21 3	63 84 87	- - -
Co. Kerry					
	1-10	4.1	-	0	6
Valentia Obs.	11-20	29.7	21	21	-
	21-end month	22.1 <b>55.9</b>	13	34	-
Co. Leitrim					
	1-10	20.5	19	19	-
Ballinamore	11-20	23.7	17	36	-
	21-end	13.2	2	38	-
	month	57.4			
Co. Wexford					
	1-10	19.8	19	23	-
Johnstown Castle	11-20	28.9	27	50	-
	21-end	41.6	25	75	-
	month	90.3			

#### SEE BACK PAGE OF JANUARY ISSUE FOR NOTES ON THE DATA

G	LOBAL S	<b>P.E.</b> (Penman)			
County/ Station				total for month	total for month(mm)
Co.Donegal Malin Head	143.94	148.55	169.82	462.31	80
<i>Co.Dublin</i> Dublin Airport	177.15	not	availab	ole	83
Co Kerry Valentia Obs.	189.56	171.61	143.51	504.68	77
Co.Kilkenny Kilkenny	181.28	174.71	153.47	509.46	84
Co.Mayo Belmullet	166.22	163.26	156.50	485.98	77
Co.Monaghan Clones	157.56	158.35	123.09	439.00	75
<b>Co.Offaly</b> Birr	175.82	167.97	132.49	476.28	74

**Friday 1st:** Mainly dry overnight apart from isolated showers or patches of rain or drizzle in some places. Scattered showers continued through the morning and early afternoon before dying out completely by evening. Dry in many parts throughout with sunny spells, mostly in the south. Winds were light southwesterly.

Rainfall: nil to 1mm, heaviest at Connacht Airport Temperature: max. 17°C to 20°C, min. 9°C to 13°C Sunshine: 2 to 12 hours, sunniest at Rosslare

**Saturday 2nd:** Dry overnight with light southwesterly winds. Continuing dry through the morning with some sunny spells. Isolated showers developed in the west and northwest during the afternoon, but dry and warm generally with spells of sunshine. A dry evening everywhere apart from patchy rain and drizzle in some western areas. Winds were light southwesterly.

Rainfall: nil to trace

**Temperature:** max. 18°C to 22°C, min. 9°C to 14°C **Sunshine:** 2 to 13 hours, sunniest at Rosslare

**Sunday 3rd:** Early rain and drizzle along a line from Dublin to Galway with some heavy bursts, gradually moving south and dying out. Western areas remaining cloudy during the day, while elsewhere there were sunny spells, particularly in the southeast. Very warm in the sunshine. Winds were light, southwesterly in direction.

Rainfall: nil to 6mm, heaviest at Valentia

Temperature: max. 17°C to 23°C, min. 10°C to 14°C

Sunshine: nil to 11 hours, sunniest at Rosslare, nil at Valentia and Belmullet

**Monday 4th:** A dry day almost everywhere, the exception being the west which experienced some light rain or drizzle. Long sunny spells in all but northwestern areas with temperatures reaching the mid-twenties at many stations. Winds were light and variable.

Rainfall: nil to <1mm, heaviest at Connacht Airport Temperature: max. 18°C to 26°C, min. 10°C to 16°C

Sunshine: 4 to 10 hours, sunniest at Malin Head, 4 hours at Belmullet

**Tuesday 5th:** Cloudy and warm during the night with thundery showers along the east and south coasts. Very warm and humid during the day with several hours of sunshine. During the afternoon most of the thundery activity was concentrated in the north and northeast, with some heavy falls of rain in these parts. Winds were light and variable in direction.

Rainfall: nil to 1mm generally, 11mm at Malin Head, 6mm at Clones

Temperature: max. 22°C to 29°C, min. 14°C to 16°C

Sunshine: 6 to 12 hours, sunniest at Kilkenny, 6 hours at Malin Head

**Wednesday 6th:** A warm day everywhere, especially in the south. Some mist and fog during the morning with patchy drizzle in places. Most sunshine was recorded in southern areas. Mist again in eastern areas during the afternoon and evening with fog along the north coast; fog and mist became widespread in many areas after dark. Winds were light southeast to southwesterly in direction.

Rainfall: nil

Temperature: max. 18°C to 25°C, min. 12°C to 16°C

Sunshine: 1 to 13 hours, sunniest at Cork Airport, 1 hour at Belmullet

**Thursday 7th:** Extensive mist and fog over the country during the night with some light drizzle also. The mist and fog was slow to clear some inland areas. Dry and sunny during the day and becoming very warm. Mist, fog and drizzle lingered in the far north through the period, keeping temperatures much lower here. Very light winds, variable in direction.

Rainfall: nil to <1mm

Temperature: max. 23°C to 29°C generally, 16° at Malin Head, min. 11°C to 16°C

Sunshine: 9 to 14 hours generally, nil at Malin Head

**Friday 8th:** The warm, fine spell continued. Fog along the east and south coast during the night lingered on the east coast during the morning and remained in many areas of the south throughout the period. Dry, warm and sunny in the rest of the country with temperatures reaching the high twenties during the afternoon in some inland and western areas. Light winds generally, a little stronger along northern coasts, southeasterly in direction.

Rainfall: nil to <1mm

**Temperature:** max. 18°C to 29°C, min. 13°C to 17°C **Sunshine:** 3 to 14 hours generally, nil at Rosslare

**Saturday 9th:** Very mild and humid overnight with mist, fog and patchy drizzle in places. It was a mostly dull and humid day with outbreaks of light rain or drizzle at times. Very little sunshine generally, but eastern areas had some spells early in the day. Thunder was reported in eastern areas in the evening. Winds were light and variable to begin, becoming mainly westerly during the day.

Rainfall: nil to 1mm

**Temperature:** max. 18°C to 25°C, min. 13°C to 16°C **Sunshine:** 0 to 3 hours, sunniest at Casement Aerodrome

**Sunday 10th:** Early rain along the east and southeast coasts cleared before dawn. The day was dry and warm throughout with long spells of sunshine across the country. Temperatures were near or above normal. Winds very light, northwesterly or variable.

Rainfall: nil to 2mm, heaviest at Rosslare

**Temperature:** max. 18°C to 23°C, min. 11°C to 16°C **Sunshine:** 9 to 14 hours, sunniest at Belmullet

**Monday 11th:** Pressure remained high over Ireland as the fine warm spell continued. Mild and dry during the night with light winds. Long periods of sunshine everywhere with temperatures above normal, but cooler in the north. Winds were light, variable or northwesterly in direction.

Rainfall: nil

Temperature: max.18°C to 24°C, min. 9°C to 15°C

Sunshine: 9 to 13 hours, sunniest at Shannon Airport, 9 hours at Casement

Aerodrome

**Tuesday 12th:** Mist or fog in some areas during the night, clearing during the morning. Mainly dry during the day, although drizzle or light rain affected the north and northwest, where it continued during the rest of the period. Still very warm with periods of sunshine, mainly in the south. Light variable winds, a little stronger along the north coast.

Rainfall: nil to 1mm, heaviest in northwest

**Temperature:** max.  $19^{\circ}\text{C}$  to  $25^{\circ}\text{C}$ , min.  $9^{\circ}\text{C}$  to  $15^{\circ}\text{C}$ 

Sunshine: trace to 13 hours, sunniest at Rosslare, trace at Valentia

**Wednesday 13th:** Some rain along the west coast at first, but mainly dry elsewhere with just the odd patch of drizzle. Generally dry and sunny during the day with only isolated light showers. Winds were light, north to northwesterly in direction.

Rainfall: nil to 1mm

Temperature: max.17°C to 24°C, min. 10°C to 15°C

Sunshine: 5 to 12 hours, sunniest at Mullingar, 5 hours at Cork Airport

**Thursday 14th:** Cooler than recent nights with some mist or fog patches and a few light showers in the extreme north. The day was dry, warm and sunny with afternoon temperatures slightly above normal. Continuing dry and clear for the evening. Winds were mostly light and variable but were moderate northerly at times on northern coasts.

Rainfall: nil to trace

Temperature: max. 18°C to 22°C, min. 5°C to 15°C

Sunshine: 9 to 14 hours, sunniest at Rosslare and Shannon Airport

**Friday 15th:** Dry and mostly clear overnight with some mist and fog patches towards morning. It was a dry and warm day with long sunny spells in most areas. Continuing dry and mild for the evening. Winds were light and variable throughout.

Rainfall: nil

Temperature: max. 17°C to 22°C, min. 6°C to 15°C

Sunshine: 7 to 14 hours, sunniest at Belmullet, 7 hours at Casement

Aerodrome

**Saturday 16th:** Another dry and warm day with a covering of high cloud allowing long sunny periods in most areas. Afternoon temperatures were slightly above normal. Remaining mild for the evening with more cloudy conditions moving in over the country from the Atlantic. Winds were generally light and variable throughout except for the extreme southeast, where they were moderate northeasterly for a time.

Rainfall: nil

Temperature: max. 16°C to 24°C, min. 6°C to 13°C

Sunshine: 6 to 13 hours, sunniest in east and south, 6 hours at Belmullet

**Sunday 17th:** A cold front crossed eastwards over Ireland. Cloudy and mild overnight with rain moving into the west from the Atlantic. The rain continued slowly eastwards during the day, reaching the east coast by mid-afternoon. Falls over western areas were moderate but amounts in the eastern half of the country were small. Mainly dry weather followed into western areas in the late afternoon and evening, with some sunny spells developing. Light southeasterly winds initially, strengthening during the day before veering southwesterly and easing by evening.

Rainfall: 1 to 8mm, heaviest at Valentia

**Temperature:** max. 16°C to 21°C, min. 10°C to 14°C **Sunshine:** nil to 4 hours, sunniest at Belmullet

**Monday 18th:** A fine, sunny day in most areas, the only exception being the west and northwest where there were isolated light showers. Long sunny spells in the east and south but more cloudy in the west. Warm with temperatures well up to normal. Winds were generally moderate, southwest to westerly in direction, although winds were stronger in the west and northwest with gale guests.

Rainfall: nil to 1mm, heaviest at Belmullet Temperature: max. 17°C to 21°C, min. 6°C to 13°C

Sunshine: <1 to 8 hours, sunniest at Dublin Airport, <1 hour at Belmullet

**Tuesday 19th:** A dry fine day overall except for the odd shower in the west. Cloudy generally but with some sunny spells, particularly in the east. Continuing fair during the evening with just occasional drizzle in the west and northwest. Temperatures near normal. Light southwesterly winds generally, but stronger in the northwest with gale gusts.

Rainfall: nil to 1mm, heaviest at Malin Head Temperature: max. 17°C to 21°C, min 11°C to 14°C Sunshine: 1 to 6 hours, sunniest at Clones, 1 hour at Rosslare

**Wednesday 20th:** Patches of mist, fog and drizzle during the night in some inland areas, otherwise dry. A dry day geneally with only isolated light showers. Some sunny periods in the south and east, otherwise mainly cloudy. Temperatures near normal. Continuing dry and fine during the evening. South to southwesterly winds were light to moderate, stronger in the north and northwest with occasional gale gusts.

Rainfall: nil to 1mm, heaviest at Connacht Airport Temperature: max. 17°C to 21°C, min. 11°C to 15°C

Sunshine: <1 to 8 hours, sunniest at Rosslare, <1 hour at Malin Head

**Thursday 21st:** It was a dull, breezy day generally with outbreaks of mostly light rain or drizzle. Slightly heavier and more persistent rain in the northwest moved southeastwards during the day. The rain gradually died out as it moved southwards and some southern and southeastern areas remained completely dry. Afternoon temperatures were above normal with most sunshine in the east. Southwesterly winds were moderate to strong and gusty at times.

Rainfall: nil to 5mm generally, 15mm at Connacht Airport Temperature: max. 17°C to 24°C, min. 11°C to 16°C Sunshine: <1 to 4 hours, sunniest at Rosslare

**Friday 22nd:** A weak rainbelt lying across the centre of the country produced mild and humid conditions with drizzle, light rain and low cloud for most of the day. This rain and drizzle moved away to the north during the evening. This rainbelt marked the boundary between cool, clear conditions to the north and warm and humid weather moving up from the south. Most sunshine was recorded in the extreme north and southeast of the country. Winds, generally light to moderate, were southwesterly in direction.

Rainfall: nil to 6mm, heaviest at Dublin Airport Temperature: max. 17°C to 24°C, min. 11°C to 17°C Sunshine: nil to 6 hours, sunniest at Rosslare and Malin Head

**Saturday 23rd:** Very mild and humid overnight with mist and fog and outbreaks of rain and drizzle. The fog was slow to lift in parts of the west in the morning. The northern half of the country had a dull day with outbreaks of rain and drizzle and little or no sunshine. Dry elsewhere with some sunny spells. Afternoon temperatures were well above normal, especially at inland stations. Light, mostly southwesterly winds were moderate at times on western coasts.

Rainfall: nil to 2mm generally, 8mm at Clones
Temperature: max. 16°C to 27°C, min. 14°C to 19°C

Sunshine: trace to 9 hours, sunniest at Rosslare, trace at Clones

**Sunday 24th:** Warm through the night with fog in a few places. The fog cleared quickly during the morning to give a very warm and sunny day almost everywhere; the only exception was some northern and eastern coasts where sea fog caused duller and cooler conditions. Continuing warm during the evening and into the night hours. Light easterly winds throughout.

Rainfall: nil to trace

Temperature: max. 18°C to 27°C, min. 14°C to 18°C

Sunshine: 3 to 11 hours, sunniest at Shannon Airport, 3 hours at Clones

**Monday 25th:** Dry, clear and very mild overnight with some mist in places. Sunny spells during the morning with light winds, but cloudier conditions in the south with some patchy drizzle. Becoming warm during the afternoon. Fine and sunny in most areas during the evening with clear spells after dark. Winds were light, generally from an easterly direction.

Rainfall: nil to <1mm

Temperature: max. 16°C to 23°C, min. 13°C to 17°C

Sunshine: <1 to 12 hours, sunniest at Belmullet, <1 hour at Cork Airport

**Tuesday 26th:** Dry through the night, but rain arrived in the south and southwest by morning. This rain remained mainly confined to the extreme south and was heavy at times in Cork and Kerry. Over the rest of the country it was another warm day with the northern half receiving most sunshine. The rain in the south died out during the early evening. Winds were east to northeasterly, moderate near the east and southeast coast, light elsewhere.

Rainfall: nil at all stations north of Shannon Airport, 15mm at Cork Airport,

6mm at Valentia

**Temperature:** max. 16°C to 21°C, min. 11°C to 15°C **Sunshine:** nil to 10 hours, sunniest at Belmullet, nil at Valentia

**Wednesday 27th:** Dry and mild overnight with some mist patches. It was a dry, warm and mostly sunny day with afternoon temperatures above normal. A few patches of mist in some coastal areas. Apart from some patchy light rain in the southeast it remained dry and mild again for the evening. Winds were light to moderate, northeasterly in direction.

Rainfall: nil to trace

Temperature: max. 17°C to 23°C, min. 8°C to 15°C

Sunshine: 3 to 13 hours, sunniest at Belmullet, 3 hours at Connacht Airport

**Thursday 28th:** Dry and cloudy during the morning with rain or showers in eastern and southern areas during the afternoon and evening. Dry in western and northern regions with periods of sunshine in these areas. Cooler overall with temperatures a few degrees lower than recent days. Winds from a north to northeasterly direction, light to moderate initially, increasing to moderate by afternoon, with some gale gusts.

Rainfall: nil to <1mm generally, 4mm at Dublin Airport Temperature: max. 16°C to 19°C, min. 7°C to 14°C

Sunshine: <1 to 11 hours, sunniest at Belmullet, <1 hour at Rosslare

**Friday 29th:** Apart from a few mostly light showers, it was a dry, warm and sunny day generally, with afternoon temperatures around normal. North to northeasterly winds became moderate and gusty for a time during the day, before easing off again by evening.

Rainfall: nil to 2mm, heaviest at Belmullet Temperature: max. 15°C to 19°C, min. 6°C to 12°C Sunshine: 6 to 12 hours, sunniest at Connacht Airport

**Saturday 30th:** Becoming cold inland overnight with a touch of ground frost. Continuing fine with sunny periods and just the odd shower, mainly in the western half of the country. North or northwesterly winds were mostly light but were moderate at times on northern coasts.

Rainfall: nil to 1mm, heaviest at Malin Head

Temperature: max. 16°C to 19°C, min. 3°C to 11°C, ground temperatures

down to -2°C at Kilkenny

Sunshine: 2 to 11 hours, sunniest at Kilkenny, 2 hours at Connacht Airport

**Sunday 31st:** Generally dry during the day with just a few showers in the north and northwest. Relatively cool in the northerly airstream but with some sunshine in western areas. Dry and fine during the evening. Light north to northwesterly winds, a little stronger in the extreme north.

Rainfall: nil generally, <1 to 1mm in northwest Temperature: max. 15°C to 19°C, min. 7°C to 12°C Sunshine: 1 to 6 hours, sunniest at Valentia and Malin Head

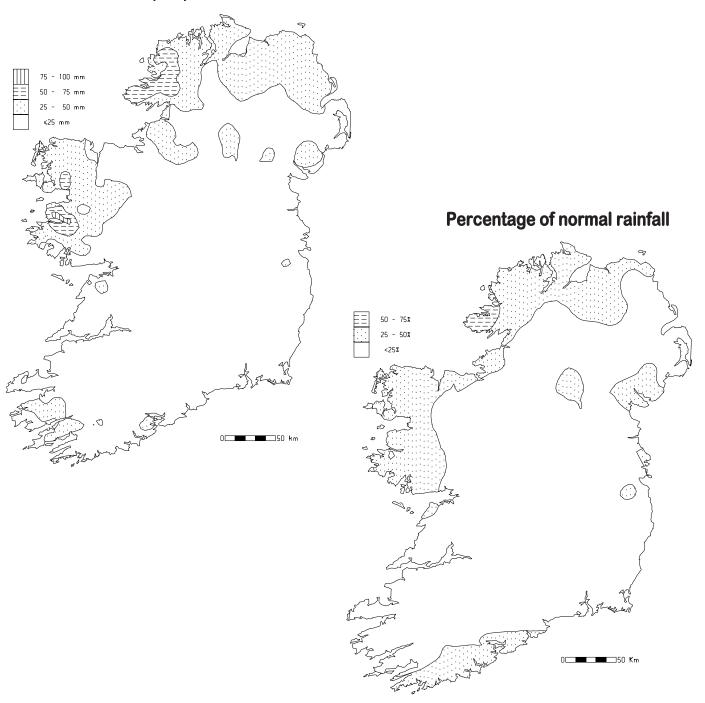
## Driest August since 1995; driest on record at Kilkenny

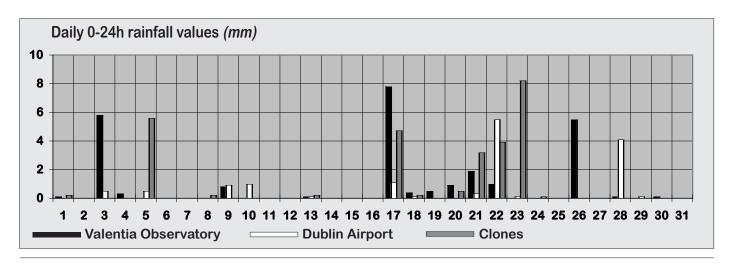
Less than a quarter of the normal August rainfall was recorded over most of the country. It was the driest August since 1995 at most stations, the driest since 1976 at both Rosslare and Birr, and the driest at Kilkenny since records began there in 1957. Totals ranged from 1mm, or just 2% of normal, at Kilkenny to 68mm, or 55% of normal, at Glenties, Co. Donegal.

With the exception of some showery rain in the period 3rd to 5th, the first half of the month was almost completely dry. More widespread rain was recorded on the 17th and 20th/21st, with a spell of heavy rain in southern areas on the 26th. The highest daily fall of the month, 22.1mm, was recorded at Maam Valley, Co. Galway, on the 20th. Between 3 and 7 wetdays were recorded during the month at the majority of stations (*days with 1mm or more of rainfall*), but Glenties recorded 10 such days.

	T	0/ 5			Nicosia	
County/	Total	% of			Numbe	
Station		1961-90	Most		Raindays	
	(mm)	average	a day /	date	(>0.2mm)	(≥1mm)
CO. CLARE						
SHANNON AIRPORT	11.1	14	3.8	17	8	4
CARRON	34.3	25	12.0	21	13	8
CO. CORK						
FERMOY (MOORE PARK)	3.5	5	1.9	26	4	1
CORK AIRPORT	23.1	26	12.8	26	6	3
SHERKIN ISLAND	26.7	30	20.6	26	4	3
BALLINCURRIG (PEAFIELD)	8.4		5.7	17	4	2
CO. DONEGAL						
MALIN HEAD	23.0	25	10.7	5	13	5
BALLYSHANNON (CATHLEEN'S FALL)	28.9	29	6.6	22	12	8
GLENTIES	67.5	55	19.2	5	15	10
CO. DUBLIN						
DUBLIN (PHOENIX PARK)	12.9	18	4.9	28	8	4
DUBLIN AIRPORT	14.4		4.5	22	8	5
CASEMENT AERODROME	11.2	16	4.3	28	7	3
DUBLIN (MERRION SQUARE)	14.9	23	5.5	28	5	4
CO. GALWAY						
GALWAY (UNIV.COLL.)	24.6	24	10.0	21	14	6
MAAM VALLEY	60.0		22.1	20	10	7
CONNEMARA NATIONAL PARK	39.2	30	8.2	17	13	9
BALLYGAR	13.7	15	4.3	21	9	4
CO. KERRY						
VALENTIA OBSERVATORY	25.3	23	7.8	17	11	7
ARDFERT (LISCAHANE)	14.2		5.6	12	10	7
CO. KILKENNY			3.0			,
KILKENNY	1.1	2	0.8	17	2	0
CO. LEITRIM		-	0.0	±,	_	
BALLINAMORE	19.2	19	5.1	22	9	5
CO. LIMERICK	17.2	10	J.1	22		
MOUNT RUSSELL	12.0		3.7	26	11	3
CO. LOUTH	12.0		3.7	20	11	
ARDEE (BOHARNAMOE)	9.4	13	4.5	5	10	3
CO. MAYO	7.4	13	4.5	5	10	3
BELMULLET	25.0	26	4.9	20	15	9
STRAIDE	22.9		7.1		14	-
CONNACHT AIRPORT	34.5	23	14.2		15	7
CO. MEATH	34.3		14.2	21	15	'
WARRENSTOWN	17.2	22	4.7	Е	8	4
CO. MONAGHAN	17.2	22	4.7	5	0	4
CLONES	27.0	31	8.0	23	9	6
CO. OFFALY	27.0	31	0.0	43	9	0
BIRR	0 0	11	2 0	21	9	,
DERRYGREENAGH	8.2	9	2.8		7	3 4
CO. SLIGO	7.3	9	2.4	21	/	4
	21 0		4.0	17	12	7
ARDTARMON	21.0		4.0	17	13	7
CO. TIPPERARY	7.0		2.4	1 77		
FETHARD (PARSONSHILL)	7.9		3.4	17	6	4
CO. WATERFORD	_ ,	11	_ ,	0.0		
WATERFORD (TYCOR)	8.4	11	2.4		6	4
DUNGARVAN (CARRIGLEA)	4.5		1.5	17	4	3
CO. WESTMEATH				0.5	_	,
MULLINGAR II	13.2	16	5.3	21	8	4
CO. WEXFORD	10.	4.0		0.0		_
JOHNSTOWN CASTLE	10.6		4.1		6	5
ROSSLARE	5.0		1.7		3	3
CLONROCHE	10.7		2.7		6	5
JOHN F. KENNEDY PARK	11.0	13	2.8	17 22	5	4

## Total rainfall (mm)

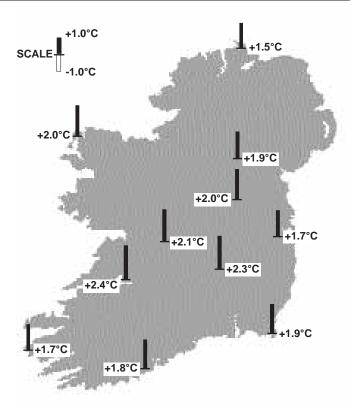




# Warmest August for at least 6 years

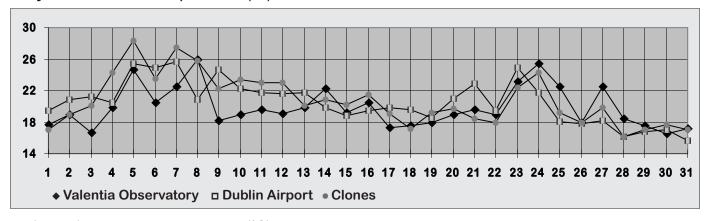
Mean air temperatures were around two degrees higher than normal everywhere, ranging from 15.7°C at both Connacht Airport and Glenties, Co. Donegal, to 18.0°C at Shannon Airport. It was the warmest August for between 6 and 8 years generally but at no station was it as warm as the exceptionally hot August of 1995.

Almost all stations recorded their warmest weather of the month during the period 4th to 8th, when daytime temperatures approached 30°C in midland and western areas, especially on the 7th and 8th. A temperature of 30.3°C was measured at Belderrig, Co. Mayo, on the 8th, the highest value of the month. Claremorris' maximum of 29.5°C on the same day was its highest for August since records began there in 1950. Minimum air temperatures were around 15°C generally during the same period. In contrast, minimum air and ground temperatures fell well below normal towards the end of the month. A value of 2.9°C recorded at Birr on the 30th was the lowest air temperature of the month, while Kilkenny measured the lowest grass minimum value of the month on the same day, -1.7°C.

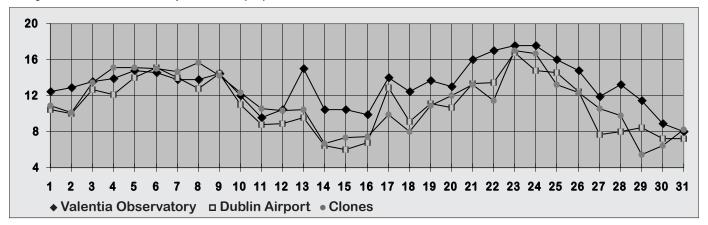


**Mean Temperature** (difference from 1961-90 normals)

Daily 0-24h maximum temperatures (°C)



Daily 0-24h minimum temperatures (°C)



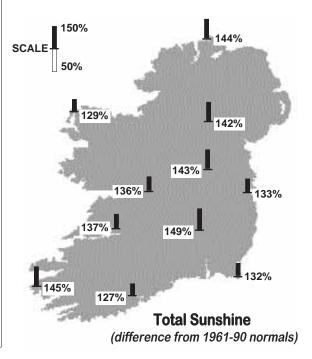
					(	,C						
County/			Mean/ de	eviation								
Station	Mean	Mean	from 19		Highe		Low		Lowe		Days	
	max.	min.	avera	ye	max./d	ale	min./	uale	yrass ii	nin./date	all liust y	round frost
CO. CLARE												
SHANNON AIRPORT	22.3	13.6	18.0	2.4	29.0	5	8.0	30	0.8	30	0	0
CARRON	20.2	12.0	16.1	2.0	27.8	5	8.4	30	2.9	14	0	0
CO. CORK						_						
FERMOY (MOORE PARK)	21.5	11.5	16.5 16.4	1.7	27.7 25.2	7 6	4.6	30 30	0.0	30	0	0
CORK AIRPORT SHERKIN ISLAND	20.1	13.6	17.0	1.8	28.5	6 7	7.4	31	6.0	30 30 31	0	0
BALLINCURRIG (PEAFIELD)	21.0	11.6	16.3	2.0	27.1	7	5.2	30	2.9	30 31	0	0
CO. DONEGAL	21.0	11.0	10.5		27.1	,	3.2	30	2.5	50		O
MALIN HEAD	18.0	13.2	15.6	1.5	25.4	8	8.8	16	7.5	16	0	0
BALLYSHANNON (CATHLEEN'S FALL)	19.8	13.1	16.5	2.0	28.0	8	8.4	30			0	
GLENTIES	20.3	11.0	15.7	1.7	26.5	24	4.9	30	3.3	30	0	0
CO. DUBLIN												
DUBLIN (PHOENIX PARK)	21.4	11.8	16.6	1.8	27.1	7	6.0	30	2.4	30	0	0
DUBLIN AIRPORT	20.6	11.5	16.1		25.7	7	6.0	15	1.2	14	0	0
CASEMENT AERODROME	21.3	11.7	16.5	1.7	27.4	5 7	5.9	30	3.2	16	0	0
DUBLIN (MERRION SQUARE)	20.5	14.6	17.6	1.7	26.1	7	9.0	30			0	
CO. GALWAY												
GALWAY (UNIV.COLL.)	21.5	12.5	17.0	1.8	29.3	8	6.4	14	1.8	30	0	0
MAAM VALLEY	21.0	12.7	16.9		29.2	8	8.5	15	3.1	16	0	0
CONNEMARA NATIONAL PARK	20.5	12.2	16.4	2.2	28.0	8	7.8	30	4 0	14 20	0	0
BALLYGAR  CO. KERRY	21.7	12.0	16.9		29.0	5 8	5.7	14	4.2	14 30	0	0
VALENTIA OBSERVATORY	20.0	13.4	16.7	1.7	26.0	8	8.0	31	6.3	30	0	0
ARDFERT (LISCAHANE)	22.1	12.2	17.2	2.3	28.4	7	5.7	29	1.1		0	0
CO. KILKENNY	22.1	12.2	17.2	2.5	20.1	,	3.7	2,5		50		O
KILKENNY	22.6	11.8	17.2	2.3	29.0	7	5.3	30	-1.7	30	0	1
CO. LEITRIM												
BALLINAMORE	21.2	11.4	16.3	2.1	28.5	7	4.5	16	0.2	30	0	0
CO. LIMERICK												
MOUNT RUSSELL	21.0	12.3	16.7		28.5	7	6.0	30	1.1	30	0	0
CO. LOUTH												
ARDEE (BOHARNAMOE)	22.7	11.5	17.1	2.7	29.2	7	5.5	30	2.0	30	0	0
CO. MAYO	100	10.0	16.0	0 0	0.5.5			1.5		1.5		•
BELMULLET	19.8	12.8	16.3	2.0	27.7	8	8.2 4.5		5.3		0	0
STRAIDE CONNACHT AIRPORT	21.0 19.4	11.3	16.2 15.7	1.8	29.0 27.9	8	8.2		4.7	14 29	0	0
CO. MEATH	19.4	11.9	15.7		21.9	0	0.2	30	4.7	14	0	U
WARRENSTOWN	21.3	11.8	16.6	2.0	28.0	5	5.6	14 30	3.6	14	0	0
CO. MONAGHAN												-
CLONES	20.8	11.6	16.2	1.9	28.3	5	5.5	29	0.7	29	0	0
CO. OFFALY												
BIRR	21.6	11.9	16.8	2.1	28.5	8	2.9	30	-0.8	30	0	1
DERRYGREENAGH	21.8	11.6	16.7	2.4	28.9	5	5.0	30	-0.4	14	0	1
CO. SLIGO												
ARDTARMON	20.5	13.1	16.8		27.5	8	9.2	30	4.4	15 29	0	0
CO. TIPPERARY						_						
FETHARD (PARSONSHILL)	21.5	11.3	16.4		28.0	7	5.6	30	3.7	30	0	0
CO. WATERFORD	22.7	12 2	17 -	2 2	27 ^	7	7 4	2.0				
WATERFORD (TYCOR) DUNGARVAN (CARRIGLEA)	22.7	12.3	17.5	2.3	27.0 27.1	7	7.4		5.5	16	0	0
CO. WESTMEATH	21.6	12.4	17.0	1.7	∠/.⊥	7	/.1	TΩ	3.5	ΤΩ		U
MULLINGAR II	21.0	11.5	16.3	2.0	29.1	5	5.5	14	-0.4	3.0	0	1
CO. WEXFORD		11.5	10.5	2.0	27.1	5	3.3		"	50		-
JOHNSTOWN CASTLE	21.0	13.2	17.1	2.3	25.6	9	8.4	31	3.0	31	0	0
ROSSLARE	19.8	14.4	17.1	1.9	24.9		9.9		5.4		0	0
CLONROCHE	21.9	12.1	17.0	2.3	28.0	7	6.9		0.0		0	0
JOHN F. KENNEDY PARK	21.3	12.4	16.9	1.9	26.0	7	7.2	30	4.5	18 19	0	0

County/ Station	Daily mean (hours/day)		% of possible	Mosi a day	
CO. CLARE					
SHANNON AIRPORT	6.10	137	41	14.0	14
CO. CORK					
CORK AIRPORT	6.51	127	45	13.8	14
SHERKIN ISLAND	5.94	121	41	13.3	7
BALLINCURRIG (PEAFIELD)	6.89		42	13.4	14
CO. DONEGAL					
MALIN HEAD	6.18	144	41	13.6	8
BALLYSHANNON (CATHLEEN'S FALL)	5.94	136	40	13.5	13
CO. DUBLIN					
DUBLIN AIRPORT	6.55	130	44	13.4	14
CASEMENT AERODROME	6.35	133	43	12.5	16
CO. GALWAY					
GALWAY (UNIV.COLL.)	6.40	141	43	12.9	10 15
CO. KERRY					
VALENTIA OBSERVATORY	6.54	145	45	13.9	7
ARDFERT (LISCAHANE)	6.49		40	13.1	7 14
CO. KILKENNY					
KILKENNY	6.72	149	46	13.7	14
CO. LEITRIM					
BALLINAMORE	6.01	152	40	11.6	15
CO. MAYO					
BELMULLET	5.96	129	40	13.6	10 15
STRAIDE	6.16			12.9	8
CONNACHT AIRPORT	6.20		42	14.2	7
CO. MONAGHAN					
CLONES	5.79	142	39	11.9	13 29
CO. OFFALY					
BIRR	5.65	136	38	13.3	8
CO. WATERFORD					
DUNGARVAN (CARRIGLEA)	6.63	148	40	12.8	14
CO. WESTMEATH					
MULLINGAR II	6.27	143	42	13.4	8
CO. WEXFORD					
JOHNSTOWN CASTLE	6.52	123	44	13.0	14
ROSSLARE	7.70	132	52	14.0	14
CLONROCHE	7.36	146	50	12.6	7
JOHN F. KENNEDY PARK	6.95	152	47	12.3	7

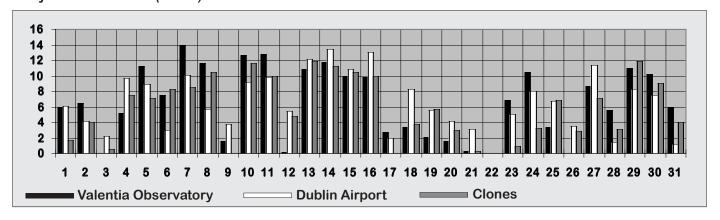
## A very sunny month everywhere

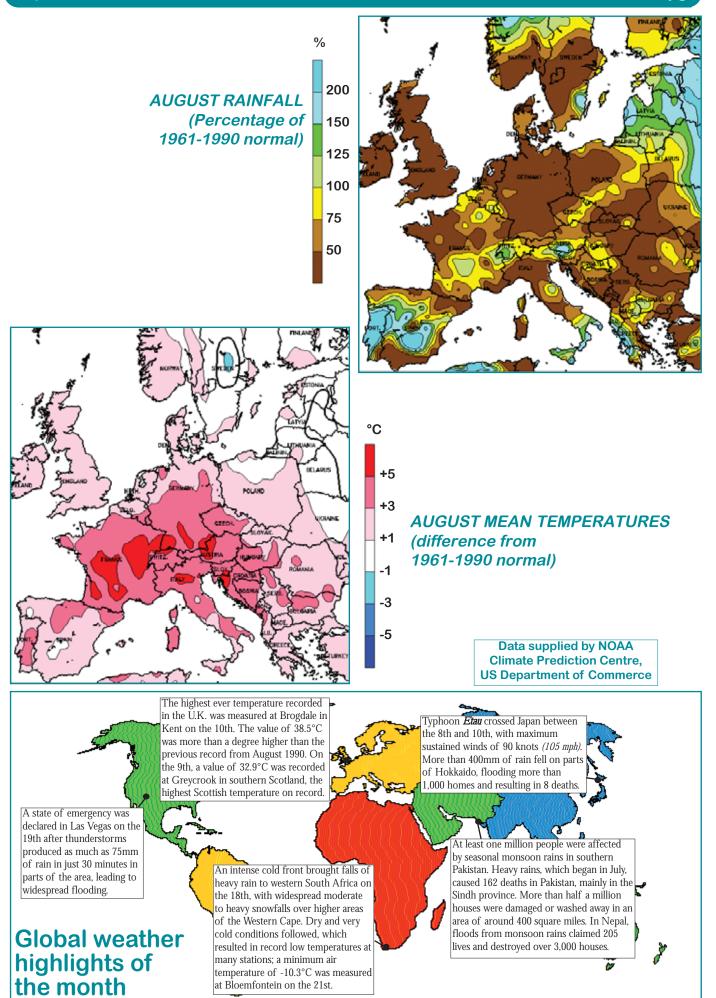
August sunshine totals were above normal everywhere, with between 25% and 50% more sunshine than average at almost all stations. Totals ranged from 175 hours at Birr to 239 hours at Rosslare. It was the sunniest August since 1995 at the majority of stations and the sunniest since 1968 at Valentia Observatory.

As the chart of daily values below indicates, the sunniest days were during the first half of the month. Daily values of over 10 hours were widely recorded on most days in the period 7th to 16th. Connacht Airport recorded the month's highest daily value on the 7th, 14.2 hours. Global solar radiation totals for the month were also well above normal, ranging from 112% of normal at Valentia Observatory to 126% at Belmullet.



#### Daily sunshine values (hours)



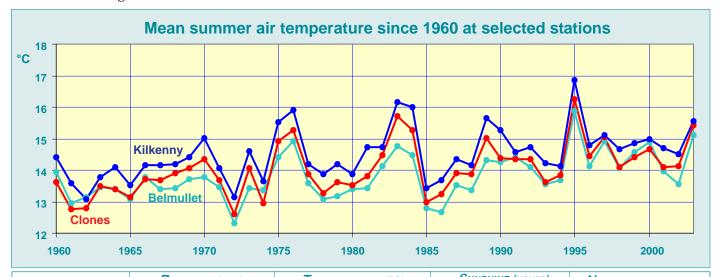


#### The Weather of June, July and August

# Warm and sunny; very dry in east

It was the warmest summer since 1995 at most stations (see chart below) and the warmest since 1976 at Malin Head. Mean air temperatures for the season were over a degree higher than normal except in the south and southwest, where dull weather during July kept temperatures closer to average values. Each of the summer months was warm, particularly August, which was around two degrees warmer than normal in many places. Most stations measured their highest daily values during early August, with maximum values of over 25°C in the period 4th to 8th. These were the highest daytime temperatures at most stations since August 1995.

Rainfall totals for the season were variable due to spells of thundery rain at times, but many areas were drier than normal overall, especially the east, where less than three quarters of the normal summer rainfall was measured. While it was the wettest summer since 1998 at both Valentia Observatory and Clones, it was the driest since 1995 at a number of stations. August was particularly dry, with totals of less than 25mm generally. There were between 20 and 36 wetdays during the season (days with 1mm or more rainfall) compared with the normal range for summer of 25 to 40 wetdays. Summer sunshine totals were higher than normal everywhere. Both June and August were sunny months but July was very dull, especially in the southwest where only just over half the monthly normal was measured.



	F	RAINF	ALL (mr	n)	TEMPERATURE (°C) SUNSHINE (HOURS)						urs)	No. of days with:							
County/ Station	Total	% of average		in a day date(s)	Mean	diff. from average	Extre Highest	emes Lowest	Daily mean	% of average	Most amount	in a day date(s)	Rain	Snow	Air frost	Hail	Thunder	Fog	Gale gusts
CO. CLARE																			
SHANNON AIRPORT	193.2	96	29.8	9 Jun	16.7	1.6	29.0	8.0	4.89	105	14.0	14 Aug	44	0	0	0	0	4	2
CO. CORK																			
CORK AIRPORT	225.7	101	39.0	9 Jun	15.1	1.0	25.2	6.5	5.83	108	13.8	14 Aug	33	0	0	0	2	26	2
CO. DONEGAL																			
MALIN HEAD	183.9	80	26.7	27 Jun	15.0	1.6	25.4	8.6	5.54	116	16.0	29 Jun	51	0	0	1	5	5 2	13
CO. DUBLIN																			
DUBLIN AIRPORT	144.3	n/a	34.0	30 Jun	15.5	n/a	25.7	6.0	5.74	104	13.6	14 Jun	39	0	0	0	3	7	5
CASEMENT AERODROME	114.7	68	33.6	30 Jun	15.9	1.6	27.4	5.9	5.51	107	14.4	14 Jun	36	0	0	0	5	4	1
CO. KERRY																			
VALENTIA OBSERVATORY	298.0	113	63.7	9 Jun	15.3	1.0	26.0	7.4	4.95	106	14.8	25 Jun	51	0	0	0	0	1	2
CO. KILKENNY																			
KILKENNY	178.2	102	23.6	30 Jun	15.9	1.5	29.0	5.2	5.43	114	13.8	14 Jun	40	n/a	0		n/a		3
CO. MAYO																			
BELMULLET	207.6	91	18.2	29 Jul	15.3	1.7	27.7	8.2	4.90	105	15.1	25 Jun	55	0	0	0	3	4 2	16
CONNACHT AIRPORT	214.9	n/a	25.4	19 Jul	14.3	n/a	27.9	5.9	4.93	n/a	14.2	7 Aug	56	0	0	0	1	38	2
CO. MONAGHAN																			
CLONES	239.8	112	42.3	17 Jul	15.6	1.7	28.3	5.5	4.85	110	11.9	13 Aug	48	n/a	0		n/a		2
CO. OFFALY																			
BIRR	146.7	76	22.5	30 Jun	15.7	1.4	28.5	2.9	4.68	107	14.1	14 Jun	50	n/a	0		n/a		2
CO. WESTMEATH																			
MULLINGAR II	151.8	72	21.7	30 Jun	15.3	1.3	29.1	4.5	5.32	113	13.4	8 Aug	44	n/a	0		n/a		5
CO. WEXFORD																			
ROSSLARE	163.6	95	17.4	9 Jun	16.0	1.6	24.9	8.4	7.24	114	15.5	24 Jun	33	0	0	0	2	8 3	.1