



AUGUST 1986

## AGROMETEOROLOGICAL BULLETIN

The Weather of August

As a deepening depression approached from the southwest and crossed over the country moving northeastwards, widespread heavy rain and strong winds affected Ireland on 1st/2nd. A strong westerly airflow in the wake of the depression on the 2nd gave way to slack trough conditions on 3rd/4th. The next depression on the 5th, moving in a similar direction, proved to be more vigorous. Widespread heavy rain and gale force winds with storm gusts occurred overnight into the 6th especially in southern and southwestern areas where extensive flooding took place. The depression centre crossed over the country on the 6th and strong northwesterly winds set in on the 7th and later decreased.

A high pressure area with its centre drifting away northwards was dominant from 8th to 11th although weak troughs also affected the country. As pressure declined a complex trough system drifted in from the west giving outbreaks of rain on 13th. The parent depression centre moved in over northern areas on 14th. Ridges of high pressure on 17th, 20th and 24th were separated by troughs on 18th/19th and a more active depression which crossed over southern areas into Britain on 21st/22nd.

The second major depression of the month was already issuing from the former "Hurricane Charlie" in mid-Atlantic on the 24th and deepened rapidly as it approached the southwest of Ireland. Moving on a more southerly track than that of the 5th, the depression centre passed along the southern coasts of Ireland into Britain. Extensive strong gale to storm force easterly winds affected in particular the east and south. Widespread heavy rain occurred and extensive flooding and damage to crops was caused. Following this storm, strong northerly winds set in for a time and in subsequent days there were good drying conditions between showers. A ridge on 30th was followed by a frontal trough from the west on the 31st.

Precipitation: (See Special Topic on page 8)

Temperature:

Well below daytime maxima and night-time minima resulted in monthly mean temperature being over 2.0°C below normal in almost all areas. Partly because of the low temperature and also because of the changeable conditions, the number of occasions when weather favoured the spread of potato blight was below normal and mainly occurred on 6th, 21st/22nd and 25th. Ground frost occurred extensively on 31st, however, the lowest ground temperature of -4.5°C was recorded at Lullymore on the 24th.

Sunshine and Radiation:

Sunshine in many places was again below normal for the fourth successive month, although the month did not prove to be nearly as dull as July. Brightest areas were in the west. Amounts varied from 108% of normal at Shannon Airport to 78% at Claremccris. Global radiation was 105% of average at Valentia Observatory and 88% at Dublin Airport.

Wind:

Strong winds with gale gusts occurred on 1st/2nd, 5th/6th, 14th/15th and 25th/26th. In particular gales with storm gusts occurred in southern areas on 5th/6th and in southern and eastern areas on 25th/26th.

Summary:

Extremely wet, coldest August on record at many stations, and for many areas (except parts of the west) it was dull.

Summer Summary:

Over the three months it was very wet (apart from the extreme north), cold and extremely dull (60-70% of normal sunshine). In particular it was a wet June, dull July, and wet and cold August.

TABLE 1

AUGUST 1986

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND					
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)			
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST *GRASS-MIN*	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE	
Carlow (Oak Park) Co. Carlow	1-10	55.5	-	6	6	16.3	8.6	12.4	-	5.2	1	0	80	-	30	-	2.2	1	0	-	-	29.4	-	3.5	-	-	-
	11-20	11.1	-	5	3	17.6	9.1	13.3	-	4.0	20	0	89	-	37	-	1.2	20	0	-	-	49.0	-	3.0	-	-	-
	21-END	59.0	-	6	5	14.9	7.5	11.2	-	3.5	31	0	75	-	20	-	0.0	31	0	-	-	40.8	-	6.5	-	-	-
	MONTH	125.6	193	17	14	16.2	8.3	12.3	-	3.5	31	0	244	-	87	-	0.0	31	0	-	-	119.2	-	4.3	-	-	56
Shannon Airport Co. Clare	1-10	58.7	-	7	5	16.8	10.1	13.4	-	6.7	8	0	90	-	36	-	2.0	8	0	14.5	-	40.1	-	4.7	4	-	-
	11-20	11.7	-	5	4	18.1	10.5	14.3	-	7.8	18	0	99	-	44	-	3.9	20	0	15.7	-	61.8	-	3.9	2	-	-
	21-END	44.0	-	9	7	15.9	8.9	12.4	-	5.7	31	0	88	-	31	-	-1.4	31	1	13.0	-	55.3	-	4.8	2	-	-
	MONTH	114.4	138	21	16	16.9	9.8	13.3	-2.0	5.7	31	0	277	78	111	64	-1.4	31	1	14.4	-2.3	157.2	108	4.5	8	72	-
Cork Airport Co. Cork	1-10	108.0	-	7	5	15.3	9.5	12.4	-	7.4	8	0	80	-	26	-	5.0	3	0	14.3	-	34.3	-	6.6	5	-	-
	11-20	25.9	-	4	3	16.3	9.5	12.9	-	7.8	14	0	85	-	32	-	3.5	14	0	14.7	-	43.7	-	4.9	2	-	-
	21-END	93.1	-	7	6	14.8	8.0	11.4	-	5.3	31	0	77	-	22	-	3.0	31	0	13.0	-	57.4	-	6.4	2	-	-
	MONTH	227.0	252	18	14	15.5	9.0	12.2	-2.4	5.3	31	0	242	74	80	54	3.0	31	0	14.0	-1.8	135.4	83	6.0	9	65	-
Fermoy (Coolnackilla) Co. Cork	1-10	107.4	-	8	6	14.8	8.7	11.8	-	6.6	8	0	74	-	22	-	3.4	3	0	-	-	29.9	-	5.1	-	-	-
	11-20	19.0	-	4	3	16.1	8.9	12.5	-	7.2	18	0	81	-	28	-	3.5	20	0	-	-	48.5	-	3.9	-	-	-
	21-END	83.7	-	9	6	14.4	7.4	10.9	-	4.9	31	0	71	-	18	-	2.6	31	0	-	-	57.2	-	5.4	-	-	-
	MONTH	210.1	-	21	15	15.1	8.3	11.7	-	4.9	31	0	226	-	68	-	2.6	31	0	-	-	135.6	-	4.8	-	-	47
Fermoy (Moore Park) Co. Cork	1-10	99.7	-	7	6	16.7	8.6	12.6	-	4.0	8	0	82	-	32	-	0.4	8	0	-	-	28.0	-	3.3	-	-	-
	11-20	18.2	-	3	2	17.5	8.7	13.1	-	3.8	20	0	87	-	35	-	0.9	20	0	-	-	48.9	-	2.6	-	-	-
	21-END	81.1	-	7	6	16.0	7.5	11.8	-	2.2	31	0	82	-	27	-	-2.0	31	1	-	-	52.5	-	3.6	-	-	-
	MONTH	199.0	265	17	14	16.7	8.3	12.5	-	2.2	31	0	251	-	95	-	-2.0	31	1	-	-	129.4	-	3.2	-	-	55
Roches Point Co. Cork	1-10	101.0	-	7	6	15.5	10.2	12.8	-	7.8	3	0	84	-	30	-	1.7	3	0	14.3	-	42.5	-	6.9	5	-	-
	11-20	29.3	-	4	4	16.6	10.4	13.5	-	8.3	14	0	91	-	36	-	3.0	14	0	14.9	-	44.3	-	4.9	1	-	-
	21-END	108.0	-	6	5	15.4	9.6	12.5	-	7.2	31	0	89	-	30	-	3.6	31	0	13.5	-	61.8	-	7.4	4	-	-
	MONTH	238.3	309	17	15	15.8	10.0	12.9	-2.2	7.2	31	0	265	77	96	59	1.7	3	0	14.2	-2.2	148.6	90	6.4	10	71	-
Glencolumbkille Co. Donegal	1-10	71.5	-	8	7	15.1	8.9	12.0	-	6.7	9	0	76	-	23	-	-0.2	10	1	-	-	N/A	-	3.0	-	-	-
	11-20	46.8	-	10	5	15.9	9.5	12.7	-	6.4	20	0	83	-	30	-	-1.5	20	1	-	-	N/A	-	3.2	-	-	-
	21-END	36.0	-	8	7	14.0	8.3	11.1	-	5.0	24	0	74	-	17	-	-3.0	24	3	-	-	N/A	-	3.5	-	-	-
	MONTH	154.3	-	26	19	14.9	8.9	11.9	-	5.0	24	0	233	-	70	-	-3.0	24	5	-	-	N/A	-	3.2	-	-	N/A

- 2 -

TABLE 1 (CONTINUED)

AUGUST 1986

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (MENHARD) (mm)														
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS															
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE												
Glenties Co. Donegal	1-10	66.8	-	7	7	15.2	8.6	11.9	-	5.9	5	0	75	-	23	-	2.4	5	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	53.6	-	9	8	16.1	7.9	12.0	-	3.5	14	0	76	-	27	-	0.9	14	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	44.4	-	9	5	14.1	6.0	10.1	-	1.3	24	0	64	-	15	-	-1.4	24	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	164.8	143	25	20	15.1	7.4	11.3	-	1.3	24	0	216	-	66	-	-1.4	24	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malin Head Co. Donegal	1-10	43.1	-	6	5	13.9	10.4	12.1	-	7.3	9	0	77	-	22	-	4.8	9	0	14.0	-	39.7	-	6.5	4	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	30.9	-	8	5	15.1	10.8	13.0	-	7.3	14	0	86	-	30	-	4.2	14	0	14.6	-	41.5	-	5.9	3	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	9.9	-	6	3	13.1	10.0	11.5	-	8.4	31	0	79	-	18	-	3.0	24	0	13.1	-	54.3	-	9.1	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	83.9	95	20	13	14.0	10.4	12.2	-1.9	7.3	9	0	241	77	71	54	3.0	24	0	13.9	-1.2	135.5	93	7.3	13	65	-	-	-	-	-	-	-	-	-	-	-	-
Casement Aerodrome Co. Dublin	1-10	34.6	-	6	4	16.6	8.7	12.7	-	4.2	1	0	83	-	31	-	1.0	9	0	14.6	-	36.2	-	5.3	4	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	7.0	-	6	3	17.7	8.9	13.3	-	5.2	20	0	89	-	37	-	1.5	20	0	15.0	-	57.6	-	4.4	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	117.9	-	7	5	14.1	6.9	10.5	-	2.7	31	0	68	-	15	-	-1.0	31	2	12.3	-	36.3	-	5.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	159.5	228	19	12	16.1	6.1	12.1	-2.5	2.7	31	0	240	72	83	52	-1.0	31	2	13.9	-	130.1	84	4.9	8	60	-	-	-	-	-	-	-	-	-	-	-	-
Dublin Airport Co. Dublin	1-10	61.6	-	6	4	16.5	9.7	13.1	-	6.9	1	0	87	-	33	-	3.6	9	0	14.6	-	39.3	-	4.7	3	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	9.2	-	5	4	16.8	9.1	13.0	-	6.3	20	0	86	-	33	-	6.1	17	0	15.2	-	54.2	-	3.8	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	88.2	-	7	6	14.4	7.7	11.1	-	4.1	31	0	73	-	18	-	2.4	31	0	13.1	-	46.8	-	5.6	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	159.0	212	18	14	15.9	8.8	12.3	-2.5	4.1	31	0	246	73	84	54	2.4	31	0	14.3	-2.2	140.3	87	4.7	7	65	-	-	-	-	-	-	-	-	-	-	-	-
Kinsealy Co. Dublin	1-10	46.3	-	5	5	16.1	8.6	12.3	-	5.1	9	0	79	-	28	-	N/A	N/A	-	-	-	39.1	-	4.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	11.7	-	5	4	16.9	8.6	12.7	-	5.6	20	0	83	-	31	-	-1.6	20	1	-	-	50.7	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	73.0	-	8	6	14.4	7.3	10.9	-	3.4	31	0	71	-	17	-	-4.6	31	2	-	-	46.2	-	4.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	131.0	190	18	15	15.7	8.1	11.9	-	3.4	31	0	234	-	76	-	N/A	N/A	-	-	-	136.0	-	3.7	-	56	-	-	-	-	-	-	-	-	-	-	-	
Galway Co. Galway	1-10	82.8	-	6	4	16.3	9.2	12.7	-	6.2	1	0	83	-	31	-	3.0	8	0	14.9	-	36.4	-	4.1	4	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	21.3	-	6	5	17.5	9.8	13.7	-	5.6	20	0	93	-	39	-	4.0	20	0	15.4	-	61.9	-	3.7	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	41.9	-	7	6	14.9	8.1	11.5	-	3.8	31	0	79	-	23	-	1.0	24	0	13.4	-	50.1	-	4.7	2	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	146.0	151	19	15	16.2	9.0	12.6	-2.2	3.8	31	0	255	-	93	-	1.0	24	0	14.5	-	148.4	96	4.2	8	64	-	-	-	-	-	-	-	-	-	-	-	-
Killerney (Muckross House) Co. Kerry	1-10	145.9	-	6	6	15.7	8.7	12.2	-	5.9	3	0	78	-	26	-	0.8	10	0	-	-	22.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	26.6	-	5	3	16.8	9.6	13.2	-	6.4	17	0	88	-	35	-	-0.4	18	2	-	-	36.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	60.4	-	10	7	15.3	9.2	12.2	-	5.6	24	0	86	-	28	-	-1.7	24	3	-	-	45.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	232.9	248	21	16	15.9	9.1	12.5	-	5.6	24	0	252	-	89	-	-1.7	24	5	-	-	104.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

1  
3  
1

TABLE 1 (CONTINUED)

AUGUST 1986

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)		
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	119.3	-	6	4	16.3	9.1	12.7	-	7.7	8	0	83	-	31	-	3.0	10	0	14.9	-	35.2	-	5.2	4	-
	11-20	21.0	-	4	4	16.7	10.0	13.4	-	6.2	17	0	90	-	35	-	3.0	17	0	15.8	-	56.5	-	4.4	2	-
	21-END	66.4	-	11	8	15.5	9.4	12.5	-	3.3	31	0	89	-	31	-	-0.2	31	1	14.2	-	52.6	-	5.8	3	-
	MONTH	206.7	211	21	16	16.1	9.5	12.8	-2.2	3.3	31	0	262	77	97	61	-0.2	31	1	14.9	-1.6	144.3	98	5.1	9	65
Ardfert (Liscahane) Co. Kerry	1-10	100.9	-	5	4	16.5	8.7	12.6	-	5.6	8	0	82	-	31	-	N/A	N/A	-	-	37.6	-	-	-	-	-
	11-20	33.1	-	6	5	17.1	9.9	13.5	-	6.1	18	0	91	-	37	-	N/A	N/A	-	-	63.2	-	-	-	-	-
	21-END	49.6	-	9	6	15.5	8.6	12.1	-	4.1	24	0	84	-	27	-	N/A	N/A	-	-	66.0	-	-	-	-	-
	MONTH	183.6	-	20	15	16.3	9.1	12.7	-	4.1	24	0	257	-	95	-	N/A	N/A	-	-	167.6	-	-	-	-	-
Lullymore Co. Kildare	1-10	50.6	-	6	6	16.1	7.4	11.8	-	3.0	1	0	74	-	26	-	-1.7	1	4	-	29.1	-	3.8	-	-	-
	11-20	18.1	-	6	5	16.8	7.8	12.3	-	3.5	20	0	79	-	29	-	-2.5	20	2	-	55.8	-	3.2	-	-	-
	21-END	68.4	-	7	6	14.4	5.9	10.1	-	0.8	24	0	64	-	15	-	-4.5	24	4	-	44.7	-	4.4	-	-	-
	MONTH	137.1	176	19	17	15.7	7.0	11.3	-	0.8	24	0	218	-	70	-	-4.5	24	10	-	129.6	-	3.8	-	48	-
Kilkenny Co. Kilkenny	1-10	66.9	-	7	6	16.7	7.7	12.2	-	4.1	3	0	78	-	30	-	0.0	1	0	14.6	-	29.1	-	3.7	4	-
	11-20	17.5	-	6	5	17.9	8.9	13.4	-	3.6	20	0	90	-	38	-	-0.8	20	1	15.1	-	41.6	-	2.7	1	-
	21-END	68.9	-	8	7	15.5	7.9	11.7	-	2.9	31	0	81	-	26	-	-1.0	31	1	13.2	-	46.9	-	3.9	2	-
	MONTH	153.3	232	21	18	16.7	8.2	12.4	-2.5	2.9	31	0	249	74	94	58	-1.0	31	2	14.3	-2.6	117.6	79	3.5	7	57
Mooncoin (Silverspring) Co. Kilkenny	1-10	90.7	-	8	6	16.7	8.3	12.5	-	4.3	3	0	81	-	31	-	-0.5	3	2	-	36.6	-	-	-	-	-
	11-20	28.2	-	7	6	17.6	8.9	13.3	-	3.9	20	0	89	-	37	-	-1.8	20	3	-	46.8	-	-	-	-	-
	21-END	84.9	-	8	5	15.4	8.3	11.8	-	3.9	31	0	82	-	26	-	-2.2	31	2	-	52.3	-	-	-	-	-
	MONTH	203.8	265	23	17	16.5	8.5	12.5	-	3.9	20	0	252	-	95	-	-2.2	31	7	-	135.7	-	-	-	-	-
Ballinamore Co. Leitrim	1-10	108.6	-	8	7	15.7	8.2	12.0	-	2.9	1	0	76	-	26	-	-1.0	1	1	-	19.3	-	1.8	-	-	-
	11-20	26.2	-	9	4	16.8	7.8	12.3	-	2.0	14	0	79	-	30	-	-1.0	14	1	-	40.6	-	2.1	-	-	-
	21-END	46.8	-	7	6	14.3	6.8	10.6	-	3.4	31	0	68	-	15	-	-1.6	24	2	-	29.4	-	3.0	-	-	-
	MONTH	181.6	187	24	17	15.6	7.6	11.6	-	2.0	14	0	224	-	70	-	-1.6	24	4	-	89.3	-	2.3	-	41	-
Ardee (Boharnamoe) Co. Louth	1-10	44.1	-	5	4	16.8	6.4	11.6	-	3.7	1	0	72	-	26	-	-2.2	1	3	-	-	-	-	-	-	-
	11-20	19.5	-	6	6	18.0	7.7	12.9	-	3.2	20	0	85	-	35	-	-1.8	20	4	-	-	-	-	-	-	-
	21-END	59.3	-	7	5	14.7	6.2	10.4	-	1.1	31	0	68	-	16	-	-4.3	31	4	-	-	-	-	-	-	-
	MONTH	122.9	162	18	15	16.4	6.7	11.6	-	1.1	31	0	225	-	77	-	-4.3	31	11	-	-	-	-	-	-	-



TABLE 1 (CONTINUED)

AUGUST 1986

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND														
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)												
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE										
Dundrum (Knockavilla) Co. Tipperary	1-10	59.2	-	6	5	16.6	8.0	12.3	-	3.3	3	0	79	-	29	-	1.0	1	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	21.8	-	5	3	17.3	8.8	13.0	-	3.0	20	0	87	-	35	-	-1.0	20	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	80.7	-	9	7	15.7	7.7	11.7	-	2.9	31	0	81	-	26	-	-2.1	31	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	161.7	-	20	15	16.5	8.2	12.3	-	2.9	31	0	247	-	90	-	-2.1	31	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dungarvan (Carriglea) Co. Waterford	1-10	111.0	-	7	5	16.9	9.1	13.0	-	4.5	3	0	86	-	35	-	4.2	3	0	-	-	49.9	-	2.9	-	-	-	-	-	-	-	-	-	-	-	
	11-20	25.1	-	5	4	18.1	9.1	13.6	-	5.3	14	0	92	-	40	-	4.4	20	0	-	-	46.4	-	2.0	-	-	-	-	-	-	-	-	-	-	-	
	21-END	111.1	-	5	4	16.0	8.4	12.2	-	4.7	31	0	86	-	30	-	2.0	31	0	-	-	46.3	-	2.8	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	247.2	287	17	13	17.0	8.9	12.9	-	4.5	3	0	264	-	104	-	2.0	31	0	-	-	142.6	-	2.6	-	-	-	-	-	-	-	-	-	-	-	54
Mullingar Co. Westmeath	1-10	62.9	-	7	5	15.8	7.9	11.8	-	3.3	1	0	75	-	25	-	0.5	1	0	14.0	-	30.8	-	3.8	3	-	-	-	-	-	-	-	-	-	-	
	11-20	27.8	-	6	5	17.0	8.3	12.7	-	3.2	20	0	83	-	32	-	0.6	20	0	14.5	-	57.7	-	3.1	1	-	-	-	-	-	-	-	-	-	-	-
	21-END	73.1	-	7	7	14.2	7.0	10.6	-	2.1	31	0	69	-	16	-	-1.7	31	1	12.2	-	37.2	-	4.1	2	-	-	-	-	-	-	-	-	-	-	-
	MONTH	163.8	207	20	17	15.6	7.7	11.7	-2.2	2.1	31	0	227	70	73	49	-1.7	31	1	13.5	-2.5	125.7	89	3.7	6	51	-	-	-	-	-	-	-	-	-	-
J.F.K. Park Co. Wexford	1-10	71.0	-	6	5	15.9	9.1	12.5	-	6.2	8	0	81	-	29	-	-0.4	8	1	-	-	32.6	-	4.9	-	-	-	-	-	-	-	-	-	-	-	
	11-20	19.6	-	5	4	16.9	9.9	13.4	-	6.0	20	0	90	-	37	-	-0.1	20	1	-	-	39.0	-	3.0	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	110.0	-	6	4	14.8	8.3	11.5	-	4.6	31	0	79	-	23	-	-1.8	31	2	-	-	43.9	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	200.6	239	17	13	15.8	9.0	12.4	-	4.6	31	0	249	-	89	-	-1.8	31	4	-	-	115.5	-	3.7	-	-	-	-	-	-	-	-	-	-	-	53
Clonroche Co. Wexford	1-10	76.4	-	6	5	16.2	7.0	11.6	-	4.0	1	0	72	-	25	-	N/A	N/A	-	-	39.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	14.6	-	7	4	16.8	8.5	12.7	-	4.0	13	0	83	-	32	-	0.5	14	0	-	-	41.4	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	155.3	-	7	7	15.5	7.5	11.5	-	2.6	31	0	79	-	24	-	-4.2	31	2	-	-	48.2	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	246.3	254	20	16	16.2	7.7	11.9	-	2.6	31	0	234	-	80	-	N/A	N/A	-	-	128.8	-	2.1	-	-	-	-	-	-	-	-	-	-	-	48	
Johnstown Castle Co. wexford	1-10	31.2	-	7	4	15.8	9.4	12.6	-	7.3	4	0	82	-	29	-	-0.2	1	1	-	-	36.9	-	4.4	-	-	-	-	-	-	-	-	-	-	-	
	11-20	16.5	-	6	4	16.3	10.2	13.2	-	7.1	20	0	88	-	34	-	1.4	14	0	-	-	42.7	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	95.9	-	5	4	14.9	8.7	11.8	-	6.8	31	0	82	-	24	-	0.6	31	0	-	-	53.6	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	143.6	167	18	12	15.6	9.4	12.5	-	6.8	31	0	252	-	88	-	-0.2	1	1	-	-	133.2	-	4.0	-	-	-	-	-	-	-	-	-	-	-	57
Rosslare Co. Wexford	1-10	26.7	-	5	4	15.8	10.8	13.3	-	8.1	8	0	89	-	34	-	3.1	1	0	15.4	-	44.4	-	5.9	4	-	-	-	-	-	-	-	-	-	-	-
	11-20	9.9	-	4	3	16.2	11.0	13.6	-	8.7	16	0	92	-	37	-	3.5	20	0	16.1	-	50.4	-	4.1	2	-	-	-	-	-	-	-	-	-	-	-
	21-END	75.0	-	7	5	14.9	9.9	12.4	-	7.4	27	0	88	-	29	-	4.5	29	0	13.8	-	55.1	-	6.4	2	-	-	-	-	-	-	-	-	-	-	-
	MONTH	111.6	153	16	12	15.6	10.6	13.1	-2.1	7.4	27	0	269	78	100	61	3.1	1	0	15.1	-2.2	149.9	82	5.5	8	70	-	-	-	-	-	-	-	-	-	

9 1

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m <sup>2</sup>
Malin Head Co. Donegal	1-10	122.66
	11-20	137.50
	21-end	141.50
	Month	401.66
Dublin Airport Co. Dublin	1-10	128.25
	11-20	129.66
	21-end	120.11
	Month	378.02
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	132.15
	11-20	175.79
	21-end	150.32
	Month	458.26
Kilkenny Co. Kilkenny	1-10	126.97
	11-20	141.62
	21-end	135.40
	Month	403.99
Belmullet Co. Mayo	1-10	146.22
	11-20	148.19
	21-end	115.06
	Month	409.47
Clones Co. Monaghan	1-10	119.98
	11-20	137.21
	21-end	117.14
	Month	374.33
Birr Co. Offaly	1-10	117.56
	11-20	136.77
	21-end	131.16
	Month	385.49

Notes on the tables in January issue

TABLE 3 POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

STATION	PERIOD	P.E. (mm)		SOIL MOISTURE (mm)		
		Amount	Deficit	Accumulated Deficit	Surplus	
Carlow (Oak Park) Co. Carlow	1-10	14.6	-	0	41	
	11-23	23.3	4	4	-	
	27-end	7.3	5	9	-	
	Month	45.2	-	-	-	
Kinsealy Co. Dublin	1-10	21.6	-	0	25	
	11-23	21.6	5	5	-	
	27-end	9.9	6	11	-	
	Month	53.1	-	-	-	
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	29.2	-	0	87	
	11-20	25.0	14	14	-	
	21-end	17.4	-	-	64	
	Month	71.6	-	-	-	
*Overflow from 4th to 7th Ballinamore Co. Leitrim	1-10	9.4	-	0	21	
	11-19	12.2	-	0	9	
	20-end	20.0	-	0	32	
	Month	41.6	-	-	-	
Glenamoy Co. Mayo	1-10	28.4	-	0	46	
	11-20	19.6	-	0	17	
	21-end	18.4	-	0	15	
	Month	66.4	-	-	-	
Johnstown Castle * Co. Wexford	1-10	22.3	-	0	9	
	11-23	22.1	-	0	7	
	27-end	7.6	6	6	-	
	Month	52.0	-	-	-	

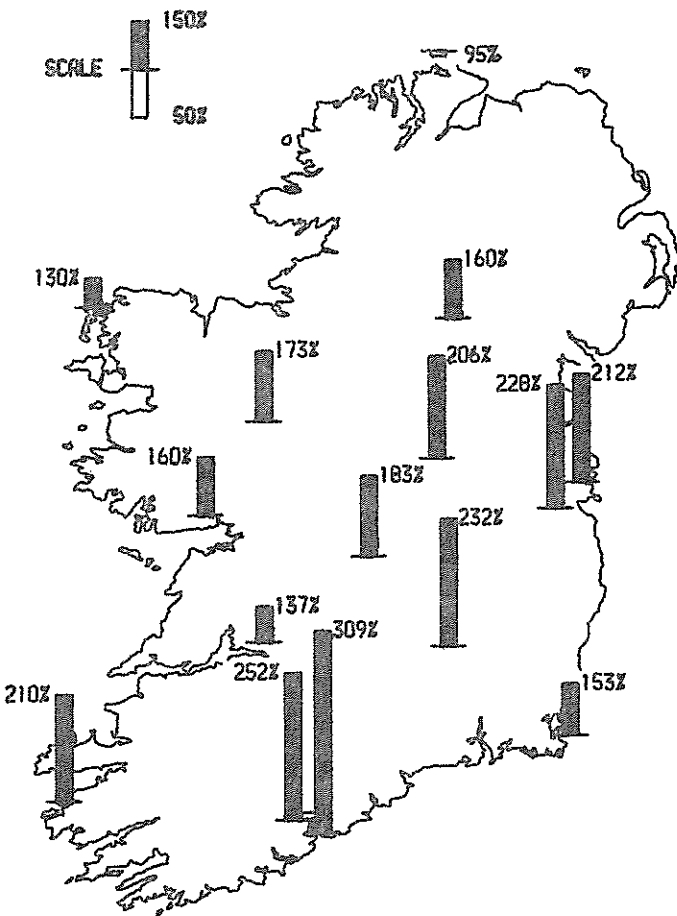
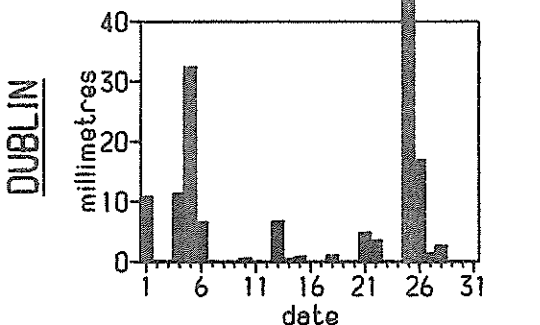
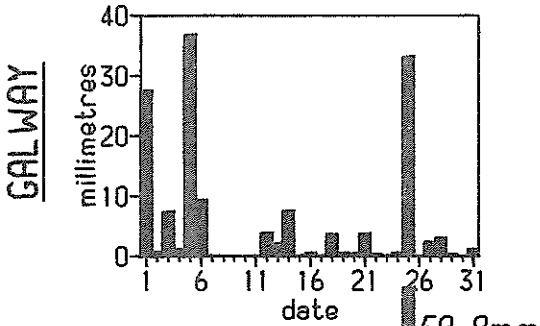
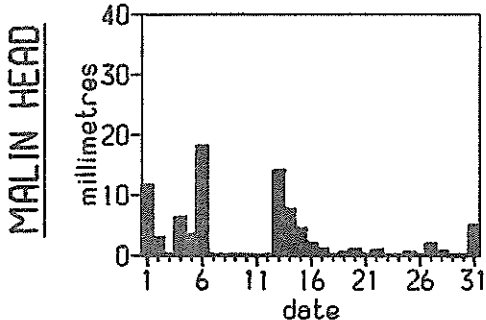
\*Days missing due to overflow

TABLE 4 SOIL CLIMATE (MULLINGAR)

BARE SOIL TYPE	PERIOD	MEAN TEMPERATURE (°C at 100mm)			TEMPERATURE GRADIENT (to 200mm)	SOIL WATER POTENTIAL (hPa) (at depths)	
		Max.	Daily	Min.		75mm	200mm
		Peat	1-10	15.8	13.6	11.6	-0.2
	11-20	16.6	13.9	11.6	-0.3	73	69
	21-end	14.0	11.8	10.0	+0.4	55	58
Mineral	1-10	16.5	13.9	11.4	-0.1	52	43
	11-20	17.3	14.4	11.6	-0.2	70	60
	21-end	15.0	12.3	10.1	+0.1	48	43

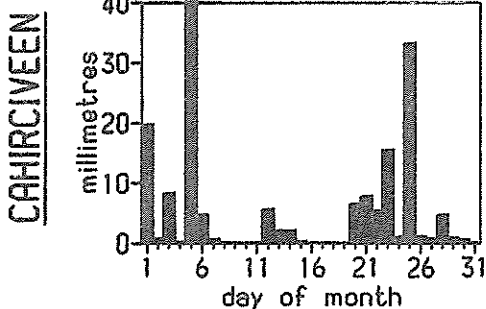
### AUGUST PRECIPITATION

Amounts were well above normal in all areas apart from the extreme north. In particular, the monthly amounts in southern areas were extremely large and at Roche's Point the total rainfall was 238.3mm. In percentage terms, the monthly totals varied from 309% at Roche's Point to 95% at Malin Head. Much of the rain was associated with the two major depressions of the month i.e. 5th/6th particularly in the west and south and on 25th/26th notably in the south and east. Up to 190mm were recorded (from 0900h GMT on 25th to 0900h GMT on 26th) in the Wicklow Mountains. Because of the exceptional rain, daily rainfall amounts at synoptic stations are shown in the form of histograms below.

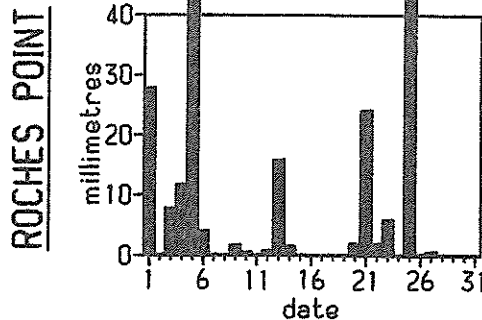


Rainfall percentage of (1951-1980) normals

85.6mm



84.4mm



47.4mm

P Carrigan  
B O'Donnell  
Meteorological Service