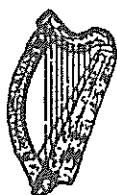


# METEOROLOGICAL SERVICE



JULY 1987

## AGROMETEOROLOGICAL BULLETIN

### The Weather of July

July on the whole turned out to be a generally dry and warm month with two very good spells. During the first week pressure to the east of the country was sufficiently high to keep away any significant amounts of rainfall away as westerly to southwesterly winds prevailed. Sunday the 5th saw most of the country receiving 12 to 15 hours sunshine except in the northwest where it was generally dull with sunshine appearing only from time to time. Conditions changed on the 9th and it became close and humid. The 10th of the month saw rain affecting all areas with Belmullet receiving 44.9mm and some of our stations reporting thunder. Between the 11th and 13th the winds changed and backed from westerly to southerly as a centre of high pressure developed over southern England. An active front brought rain to the west on the 14th and as this complex area of low pressure moved eastwards the rest of the country also received rain. Kilkenny with a recorded rainfall amount of 32mm on the 16th also reported hail and thunder. Thunder was also reported on the 17th at this station. Conditions improved after this with the 20th - 24th being the best. On the 26th northern coasts in a humid westerly airflow also received rainfall and it was this westerly airflow that was to see us out of July.

#### Precipitation:

Amounts for the month in general were below normal and varied from 140% of normal at Malin Head to 21% of normal at J.F.K PARK. Rainfall amounts were high on coasts of west Ulster and north Connaught but there was a decrease as one progressed away from these areas. Wettest days were 9th, 10th, 15th, 16th and 17th.

#### Temperature:

Mean air temperature was above normal. Temperature deviation was from  $-0.2^{\circ}\text{C}$  below at Dublin Airport to  $1.0^{\circ}\text{C}$  above at Galway.

#### Sunshine and Radiation:

Sunshine hours were somewhat below normal. Amounts varied from 102% of normal at Roche's Point to 56% of normal at Belmullet. Sunniest days were Saturday the 4th Sunday the 5th and Wednesday the 22nd. Global radiation varied from 105% of normal at Valentia to 96% of normal at Birr.

#### Wind:

Strong winds with gale gusts occurred on the 19th and the 26th. The highest gust of the month was 49 knots recorded at Malin Head on the 31st.

#### Summary:

Dry and warm.

The data contained in this Bulletin are provisional. Some of the material in Table 1 will be published in its final form later in the Monthly Weather Report; final values of Solar Radiation at stations in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

JULY 1987

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	8.6	-	2	1	20.3	10.2	15.2	-	6.0	2	0	108	-	55	-	2.6	2	0	-	-	63.4	-	2.4	-	-
	11-20	52.1	-	6	5	18.5	11.2	14.9	-	8.5	18	0	105	-	49	-	4.4	19	0	-	-	30.0	-	2.6	-	-
	21-END	1.9	-	4	1	20.1	12.4	16.3	-	9.8	25	0	130	-	69	-	9.8	25	0	-	-	38.8	-	N/A	-	-
	MONTH	62.6	116	12	7	19.7	11.3	15.5	-	6.0	2	0	343	-	173	-	2.6	2	0	-	-	132.2	-	N/A	-	N/A
Shannon Airport Co. Clare	1-10	7.6	-	4	2	21.2	12.1	16.6	-	9.7	2	0	123	-	67	-	3.3	2	0	19.0	-	57.5	-	3.0	0	-
	11-20	32.1	-	6	4	19.5	12.9	16.2	-	9.7	17	0	118	-	62	-	5.6	17	0	17.3	-	37.1	-	4.2	0	-
	21-END	2.0	-	4	1	19.5	13.3	16.4	-	11.3	22	0	132	-	71	-	7.9	25	0	17.9	-	30.7	-	5.1	1	-
	MONTH	41.7	63	14	7	20.1	12.8	16.4	+0.9	9.7	2	0	373	105	199	114	3.3	2	0	18.1	+0.7	125.3	87	4.2	1	87
Cork Airport Co. Cork	1-10	13.9	-	3	2	19.1	10.9	15.0	-	8.0	1	0	106	-	51	-	4.2	2	0	17.7	-	78.2	-	4.4	0	-
	11-20	28.1	-	6	4	18.1	11.5	14.8	-	9.4	18	0	104	-	48	-	6.9	16	0	16.7	-	39.3	-	5.5	1	-
	21-END	0.0	-	0	0	19.9	12.6	16.2	-	10.4	25	0	130	-	69	-	8.2	25	0	17.6	-	50.6	-	6.7	2	-
	MONTH	42.0	58	9	6	19.0	11.7	15.4	+0.6	8.0	1	0	340	103	167	112	4.2	2	0	17.4	+0.8	168.1	100	5.6	3	95
Fermoy (Coolnakille) Co. Cork	1-10	11.0	-	4	3	18.7	9.9	14.3	-	7.8	8	0	99	-	45	-	2.3	8	0	-	-	70.2	-	3.1	-	-
	11-20	34.0	-	5	3	17.4	11.0	14.2	-	8.5	18	0	98	-	43	-	7.5	18	0	-	-	29.4	-	4.4	-	-
	21-END	2.7	-	5	0	18.2	11.6	14.9	-	9.2	25	0	116	-	54	-	7.9	25	0	-	-	39.5	-	6.3	-	-
	MONTH	47.7	-	14	6	18.1	10.9	14.5	-	7.8	8	0	313	-	142	-	2.3	8	0	-	-	139.1	-	4.6	-	75
Fermoy (Moore Park) Co. Cork	1-10	8.0	-	3	3	20.0	10.0	15.0	-	5.5	8	0	106	-	54	-	0.1	8	0	-	-	65.1	-	2.1	-	-
	11-20	34.3	-	3	3	18.8	11.8	15.3	-	7.8	18	0	109	-	53	-	3.5	18	0	-	-	26.9	-	2.8	-	-
	21-END	0.9	-	2	0	19.6	12.6	16.1	-	10.0	21	0	129	-	67	-	5.7	21	0	-	-	33.2	-	4.2	-	-
	MONTH	43.2	72	8	6	19.5	11.5	15.5	-	5.5	8	0	344	-	174	-	0.1	8	0	-	-	125.2	-	3.1	-	73
Roches Point Co. Cork	1-10	8.9	-	3	2	17.7	11.4	14.6	-	8.5	1	0	102	-	46	-	4.0	3	0	18.0	-	75.9	-	3.3	0	-
	11-20	18.4	-	6	3	18.3	12.3	15.3	-	10.8	18	0	109	-	53	-	6.7	17	0	16.9	-	48.0	-	5.1	1	-
	21-END	0.0	-	0	0	20.6	13.4	17.0	-	11.0	25	0	138	-	77	-	6.9	25	0	18.4	-	53.3	-	6.6	1	-
	MONTH	27.3	46	9	5	18.9	12.4	15.7	+0.6	8.5	1	0	349	102	176	111	4.0	3	0	17.8	+0.7	177.2	102	5.1	2	95
Glencolumbkille Co. Donegal	1-10	47.0	-	7	3	17.5	11.3	14.4	-	9.5	2	0	100	-	44	-	5.0	6	0	-	-	N/A	-	2.7	-	-
	11-20	49.6	-	9	6	17.7	11.5	14.6	-	8.7	16	0	102	-	46	-	3.6	16	0	-	-	N/A	-	3.1	-	-
	21-END	48.0	-	9	8	15.6	11.7	13.7	-	10.0	25	0	102	-	40	-	6.5	22	0	-	-	N/A	-	4.0	-	-
	MONTH	144.6	-	25	17	16.9	11.5	14.2	-	8.7	16	0	304	-	130	-	3.6	16	0	-	-	N/A	-	3.3	-	N/A



TABLE 1 (CONTINUED)

JULY 1987

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (mm)		
		AMOUNT	% OF AVERAGE	RAIN DAYS		AIR							GROUND			SOIL (10cm)		TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS					
				RAIN	WET	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
				DAYS	DAYS																					
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	12.7	-	4	3	18.8	11.7	15.2	-	7.0	8	0	108	-	53	-	4.2	8	0	18.6	-	61.1	-	4.3	0	-
	11-20	41.8	-	7	3	18.2	13.0	15.6	-	11.7	17	0	112	-	56	-	7.7	17	0	17.6	-	44.9	-	5.5	1	-
	21-END	4.0	-	6	1	17.9	12.8	15.4	-	10.6	22	0	121	-	59	-	6.6	22	0	18.1	-	40.6	-	4.2	0	-
	MONTH	58.5	68	17	7	18.3	12.5	15.4	+0.6	7.0	8	0	341	103	169	113	4.2	8	0	18.1	+1.0	146.6	101	4.6	1	77
Ardfert (Liscahane) Co. Kerry	1-10	13.9	-	3	3	19.9	10.7	15.3	-	7.2	7	0	109	-	55	-	3.4	7	0	-	-	67.0	-	-	-	-
	11-20	29.8	-	7	5	18.7	12.2	15.5	-	9.9	17	0	111	-	55	-	6.8	17	0	-	-	47.0	-	-	-	-
	21-END	11.4	-	7	5	17.2	11.5	14.3	-	0.0	24	0	111	-	53	-	6.6	21	0	-	-	24.1	-	-	-	-
	MONTH	55.1	-	17	13	18.5	11.5	15.0	-	0.0	24	0	330	-	162	-	3.4	7	0	-	-	138.1	-	-	-	-
Lullymore Co. Kildare	1-10	18.5	-	1	1	20.5	9.2	14.8	-	5.7	2	0	104	-	52	-	0.1	3	0	-	-	52.8	-	2.8	-	-
	11-20	22.5	-	7	5	18.7	10.6	14.7	-	6.8	18	0	103	-	49	-	1.3	18	0	-	-	31.8	-	3.1	-	-
	21-END	5.5	-	6	4	19.5	10.7	15.1	-	8.0	25	0	118	-	58	-	0.6	25	0	-	-	32.7	-	4.4	-	-
	MONTH	46.5	73	14	10	19.6	10.2	14.9	-	5.7	2	0	325	-	159	-	0.1	3	0	-	-	32.7	-	3.4	-	48
Kilkenny Co. Kilkenny	1-10	11.2	-	2	1	20.7	9.6	15.2	-	5.1	2	0	108	-	56	-	0.4	2	0	18.2	-	63.7	-	2.0	0	-
	11-20	48.9	-	6	4	19.2	10.9	15.0	-	7.5	18	0	106	-	51	-	4.3	18	0	17.0	-	28.9	-	2.6	0	-
	21-END	0.4	-	1	0	20.4	12.8	16.6	-	8.5	25	0	134	-	73	-	3.2	25	0	18.1	-	43.8	-	4.1	2	-
	MONTH	60.5	103	9	5	20.1	11.2	15.6	+0.4	5.1	2	0	348	102	180	108	0.4	2	0	17.8	-0.2	136.4	94	2.9	2	77
Mooncoin (Silverspring) Co. Kilkenny	1-10	3.7	-	3	2	19.9	8.6	14.2	-	4.4	2	0	98	-	47	-	-1.1	2	2	-	-	65.7	-	-	-	-
	11-20	13.3	-	5	4	19.4	11.2	15.3	-	7.8	18	0	109	-	54	-	2.4	18	0	-	-	40.0	-	-	-	-
	21-END	0.4	-	1	0	20.6	12.9	16.8	-	9.1	25	0	136	-	74	-	4.1	25	0	-	-	47.1	-	-	-	-
	MONTH	17.4	29	9	6	20.0	10.9	15.5	-	4.4	2	0	343	-	175	-	-1.1	2	2	-	-	152.8	-	-	-	-
Ballinamore Co. Leitrim	1-10	7.9	-	3	2	19.5	9.8	14.7	-	5.7	7	0	103	-	50	-	-2.0	7	1	-	-	N/A	-	1.9	-	-
	11-20	18.7	-	4	3	18.8	11.4	15.1	-	6.1	16	0	107	-	52	-	-1.1	16	1	-	-	N/A	-	2.4	-	-
	21-END	10.1	-	6	3	18.7	11.7	15.2	-	9.5	22	0	119	-	57	-	2.4	22	0	-	-	50.1	-	3.5	-	-
	MONTH	36.7	45	13	8	19.0	11.0	15.0	-	5.7	7	0	328	-	159	-	-2.0	7	2	-	-	N/A	-	2.6	-	N/A
Ardee (Boharnamoe) Co. Louth	1-10	24.5	-	2	1	21.6	8.5	15.1	-	5.3	2	0	107	-	56	-	-0.2	2	1	-	-	-	-	-	-	-
	11-20	26.1	-	8	5	19.5	10.6	15.1	-	7.1	18	0	107	-	53	-	1.3	18	0	-	-	-	-	-	-	-
	21-END	N/A	-	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	2.0	26	0	-	-	-	-	-	-	-
	MONTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	-0.2	2	1	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

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TABLE 1 (CONTINUED)

JULY 1987

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (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
Ballinrobe (Creagh) Co. Mayo	1-10	14.7	-	3	2	18.5	10.9	14.7	-	6.1	7	0	103	-	48	-	0.5	7	0	-	-	16.8	-	2.7	-	-
	11-20	30.8	-	6	4	18.8	11.9	15.4	-	8.4	17	0	110	-	55	-	3.0	17	0	-	-	34.8	-	2.7	-	-
	21-END	2.6	-	4	1	18.7	12.3	15.5	-	9.1	22	0	122	-	61	-	8.6	22	0	-	-	39.3	-	3.4	-	-
	MONTH	48.1	65	13	7	18.7	11.7	15.2	-	6.1	7	0	335	-	164	-	0.5	7	0	-	-	90.9	-	2.9	-	60
Belmullet Co. Mayo	1-10	57.1	-	7	6	16.4	12.0	14.2	-	9.8	7	0	98	-	42	-	5.0	7	0	16.1	-	22.7	-	6.7	0	-
	11-20	34.2	-	5	5	17.5	12.1	14.8	-	10.5	17	0	104	-	48	-	8.1	12	0	16.5	-	46.2	-	6.4	2	-
	21-END	6.5	-	6	3	16.2	12.4	14.3	-	10.8	22	0	109	-	48	-	8.0	22	0	16.3	-	8.6	-	5.7	0	-
	MONTH	97.8	136	18	14	16.7	12.2	14.4	+0.3	9.8	7	0	311	100	138	106	5.0	7	0	16.3	-0.1	77.5	56	6.3	2	59
Claremorris Co. Mayo	1-10	9.1	-	2	2	18.9	10.8	14.8	-	4.6	7	0	104	-	51	-	1.4	7	0	16.2	-	16.9	-	3.5	0	-
	11-20	27.4	-	7	3	19.0	11.4	15.2	-	9.3	16	0	108	-	52	-	5.3	17	0	16.1	-	27.6	-	3.6	0	-
	21-END	2.7	-	5	1	18.1	12.1	15.1	-	10.3	22	0	117	-	56	-	7.7	22	0	16.7	-	25.7	-	4.6	1	-
	MONTH	39.2	52	14	6	18.6	11.4	15.0	+0.7	4.6	7	0	330	104	159	114	1.4	7	0	16.3	+0.2	70.2	58	3.9	1	57
Glenamoy Co. Mayo	1-10	60.3	-	5	4	16.8	12.0	14.4	-	9.4	7	0	100	-	44	-	7.4	8	0	-	-	20.6	-	3.7	-	-
	11-20	27.8	-	5	5	17.5	11.8	14.6	-	10.2	16	0	102	-	46	-	7.2	17	0	-	-	N/A	-	3.0	-	-
	21-END	17.6	-	7	6	16.1	12.6	14.4	-	11.3	22	0	110	-	48	-	9.4	22	0	-	-	5.5	-	2.9	-	-
	MONTH	105.7	117	17	15	16.8	12.1	14.5	-	9.4	7	0	312	-	138	-	7.2	17	0	-	-	N/A	-	3.2	-	N/A
Dunsany (Grange) Co. Meath	1-10	17.1	-	2	1	20.4	9.8	15.1	-	6.0	2	0	107	-	54	-	0.4	0	0	-	-	57.2	-	-	-	-
	11-20	24.6	-	7	5	18.9	11.4	15.2	-	7.7	18	0	108	-	53	-	4.1	16	0	-	-	28.7	-	-	-	-
	21-END	5.8	-	6	3	19.3	11.6	15.4	-	8.0	25	0	121	-	60	-	6.9	21	0	-	-	32.6	-	-	-	-
	MONTH	47.5	71	15	9	19.5	11.0	15.2	-	6.0	2	0	336	-	167	-	0.4	0	0	-	-	118.5	-	-	-	-
Clones Co. Monaghan	1-10	20.8	-	3	3	19.3	10.8	15.0	-	7.2	2	0	106	-	52	-	0.8	2	0	16.4	-	36.1	-	1.8	0	-
	11-20	13.0	-	4	2	18.9	11.7	15.3	-	7.5	16	0	109	-	54	-	1.6	16	0	16.3	-	31.9	-	2.5	0	-
	21-END	10.8	-	8	4	18.9	12.1	15.5	-	10.3	22	0	122	-	60	-	4.2	22	0	16.5	-	41.0	-	3.3	1	-
	MONTH	44.6	62	15	9	19.0	11.6	15.3	+0.9	7.2	2	0	338	106	167	118	0.8	2	0	16.4	+0.0	109.0	87	2.5	1	67
Birr Co. Offaly	1-10	8.2	-	3	2	20.5	10.9	15.7	-	6.5	2	0	113	-	59	-	3.4	2	0	18.4	-	51.5	-	1.9	0	-
	11-20	16.0	-	7	4	19.3	11.4	15.4	-	8.6	18	0	110	-	54	-	4.6	18	0	17.2	-	29.2	-	2.4	0	-
	21-END	1.0	-	2	0	19.4	12.0	15.7	-	8.3	25	0	124	-	63	-	4.8	25	0	18.0	-	27.9	-	3.3	0	-
	MONTH	25.2	37	12	6	19.8	11.4	15.6	+0.8	6.5	2	0	347	104	176	112	3.4	2	0	17.9	+0.5	108.6	81	2.6	0	71

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

JULY 1987

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	10.4	-	3	2	20.6	9.9	15.2	-	5.8	2	0	108	-	56	-	0.8	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	20.0	-	5	4	19.1	10.9	15.0	-	7.9	18	0	106	-	51	-	4.2	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	N/A	-	N/A	N/A	N/A	12.2	N/A	-	10.0	23	0	N/A	-	N/A	-	6.0	25	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	N/A	-	N/A	N/A	N/A	11.0	N/A	-	5.8	2	0	N/A	-	N/A	-	0.8	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dungarvan (Carriglea) Co. Waterford	1-10	5.2	-	3	1	20.7	9.5	15.1	-	6.4	2	0	107	-	54	-	4.4	2	0	-	-	-	-	75.8	-	1.7	-	-	-	-	-	-	-	-	-		
	11-20	19.1	-	5	3	20.0	11.5	15.7	-	7.5	18	0	113	-	58	-	5.0	18	0	-	-	-	-	37.2	-	2.2	-	-	-	-	-	-	-	-	-	-	
	21-END	0.5	-	1	0	21.4	13.2	17.3	-	9.5	25	0	142	-	80	-	6.7	25	0	-	-	-	-	50.4	-	3.0	-	-	-	-	-	-	-	-	-	-	
	MONTH	24.8	37	9	4	20.7	11.4	16.1	-	6.4	2	0	362	-	193	-	4.4	2	0	-	-	-	-	163.4	-	2.3	-	-	-	-	-	-	-	-	-	-	-
Mullingar Co. Westmeath	1-10	20.4	-	2	1	19.8	10.3	15.1	-	5.9	2	0	107	-	53	-	3.0	2	0	17.7	-	-	-	56.5	-	2.4	0	-	-	-	-	-	-	-	-	-	
	11-20	13.0	-	7	4	18.8	11.0	14.9	-	6.5	16	0	105	-	51	-	3.6	16	0	16.6	-	-	-	31.2	-	3.1	0	-	-	-	-	-	-	-	-	-	-
	21-END	8.2	-	5	3	19.0	11.9	15.5	-	8.6	25	0	122	-	60	-	6.5	25	0	17.3	-	-	-	39.6	-	3.6	0	-	-	-	-	-	-	-	-	-	-
	MONTH	41.6	58	14	8	19.2	11.1	15.2	+0.9	5.9	2	0	333	101	164	108	3.0	2	0	17.2	+0.5	-	-	127.3	92	3.1	0	72	-	-	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	3.9	-	2	2	18.9	10.3	14.6	-	6.6	1	0	102	-	48	-	-2.1	1	2	-	-	-	-	65.5	-	2.9	-	-	-	-	-	-	-	-	-	-	
	11-20	10.0	-	5	3	18.8	11.7	15.2	-	7.8	18	0	108	-	53	-	5.0	16	0	-	-	-	-	40.9	-	N/A	-	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	N/A	12.7	N/A	-	8.5	25	0	N/A	-	N/A	-	2.7	25	0	-	-	-	-	45.9	-	N/A	-	-	-	-	-	-	-	-	-	-	
	MONTH	13.9	21	7	5	N/A	11.6	N/A	-	6.6	1	0	N/A	-	N/A	-	-2.1	1	2	-	-	-	-	152.3	-	N/A	-	N/A	-	-	-	-	-	-	-	-	
Clonroche Co. Wexford	1-10	2.7	-	2	1	19.7	11.2	15.4	-	7.3	3	0	110	-	56	-	1.5	3	0	-	-	-	-	70.0	-	1.3	-	-	-	-	-	-	-	-	-		
	11-20	21.2	-	6	5	18.8	11.6	15.2	-	7.6	17	0	108	-	53	-	1.0	18	0	-	-	-	-	45.3	-	1.4	-	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	21.1	13.1	17.1	-	11.5	23	0	140	-	78	-	6.0	23	0	-	-	-	-	53.7	-	2.2	-	-	-	-	-	-	-	-	-	-	
	MONTH	23.9	31	8	6	19.9	12.0	15.9	-	7.3	3	0	358	-	187	-	1.0	18	0	-	-	-	-	169.0	-	1.6	-	-	-	-	-	-	-	-	-	-	
Johnstown Castle Co. Wexford	1-10	3.0	-	2	1	18.3	10.6	14.5	-	7.7	1	0	101	-	46	-	-0.4	1	1	-	-	-	-	72.9	-	2.6	-	-	-	-	-	-	-	-	-		
	11-20	24.4	-	4	4	17.8	11.5	14.7	-	9.4	17	0	103	-	47	-	3.2	17	0	-	-	-	-	49.8	-	2.4	-	-	-	-	-	-	-	-	-	-	
	21-END	0.4	-	1	0	20.1	12.7	16.4	-	9.5	25	0	132	-	70	-	5.0	25	0	-	-	-	-	66.5	-	3.0	-	-	-	-	-	-	-	-	-	-	
	MONTH	27.8	40	7	5	18.8	11.6	15.2	-	7.7	1	0	335	-	164	-	-0.4	1	1	-	-	-	-	189.2	-	2.6	-	-	-	-	-	-	-	-	-	-	-
Rosslare Co. Wexford	1-10	3.4	-	1	1	18.1	11.6	14.8	-	9.0	1	0	104	-	49	-	5.2	2	0	18.7	-	-	-	81.3	-	3.6	0	-	-	-	-	-	-	-	-	-	
	11-20	11.2	-	5	3	17.4	12.1	14.8	-	9.7	18	0	104	-	48	-	7.3	18	0	17.8	-	-	-	56.2	-	4.4	1	-	-	-	-	-	-	-	-	-	
	21-END	0.9	-	2	0	19.4	14.2	16.8	-	11.4	25	0	136	-	75	-	9.7	25	0	18.8	-	-	-	57.1	-	5.3	1	-	-	-	-	-	-	-	-	-	
	MONTH	15.5	26	8	4	18.3	12.7	15.5	+0.4	9.0	1	0	344	102	171	110	5.2	2	0	18.5	+0.3	-	-	194.6	100	4.5	2	95	-	-	-	-	-	-	-		

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	142.75
	11-20	150.55
	21-end	126.51
	Month	419.81
Dublin Airport Co. Dublin	1-10	193.53
	11-20	138.91
	21-end	168.96
	Month	501.40
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	203.26
	11-20	172.46
	21-end	152.66
	Month	528.38
Kilkenny Co. Kilkenny	1-10	201.36
	11-20	140.72
	21-end	173.52
	Month	515.60
Belmullet Co. Mayo	1-10	129.28
	11-20	150.04
	21-end	118.01
	Month	397.33
Clones Co. Monaghan	1-10	158.38
	11-20	137.28
	21-end	154.65
	Month	450.31
Birr Co. Offaly	1-10	188.30
	11-20	144.59
	21-end	134.45
	Month	467.34

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	30.5	22	37	
	11-20	20.0	-	3	
	21-end	25.3	23	26	
	Month	75.8	-	-	
Kinsealy Co. Dublin	1-10	7.8	26	45	
	11-20	20.2	-1	44	
	21-end	2.9	28	72	
	Month	30.9	-	-	
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	11.6	14	14	33
	11-20	46.4	-	-	
	21-end	5.8	+16	16	
	Month	63.8	-	-	
Ballinamore Co. Leitrim	1-10	31.2	23	23	
	11-20	22.9	4	27	
	21-end	22.1	12	39	
	Month	76.2	-	-	
Glenamoy Co. Mayo	1-10	61.3	-	-	42
	11-20	27.8	-	-	14
	21-end	17.2	-	-	6
	Month	106.3	-	-	-
Johnstown Castle Co. Wexford	1-10	28.6	27	27	
	11-20	18.3	-	21	
	21-end	28.2	28	49	
	Month	75.1	-	-	

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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	19.0	17.3	14.5	-0.9
	11-20	18.3	16.3	13.8	-0.3	80	73
	21-end	18.2	16.7	15.0	-0.3	123	104
Mineral	1-10	19.8	17.0	14.6	-0.5	202	169
	11-20	18.8	16.2	14.0	-0.2	116	103
	21-end	19.6	17.0	14.8	-0.4	347	182

special topic

POTATO BLIGHT CONDITIONS

The table below gives the levels of potato blight infection reported at the end of July by Department of Agriculture Inspectors from five widely separated districts over the past four years. Disease levels in the Dublin district were found to be considerably less than 1985 and 1986 and similar to those of 1984. The situation in Wexford to date seems to be much more serious than either the 1985 and 1986 reports would indicate. Disease levels reported from Buncrana, Co Donegal, are greater than 1986 but less than 1985 whereas in east Galway infection is spreading less rapidly than either 1985 or 1986 but much more rapidly than 1984. The reports from Tullamore show that although the disease has advanced, levels are considerably lower than the high values of 1985 and 1986.

It is difficult to discern any useful correlation between the accumulation of EBH and year to year changes in the levels of infection except perhaps in the Dublin district. Also despite the higher level of infection reported from Wexford compared with the two previous years, EBH accumulation ( at Rosslare) was lower this year. However, the latter greatly exceeded the other districts shown in the table.

As the number of EBH for most of May was extremely low the following Figure shows the position for the period May 29 - July 11. Accumulations of Ehb were well above average except for a region extending from the mid-west to inland areas of the east. Up to 252% of average occurred at Kilkenny and many stations exceeded 150%. The lowest percentage accumulation (40%) occurred at Casement Aerodrome. The rapid drop-off in percentage values across the middle of the country suggests a sharp dividing line between areas most affected and those least affected.

Table: Percentage of the crop (0-100%) observed (last report of July) at the stated % of blighted foliage ( 0 - 50% )

(based on British Mycological Society rating scale)

District	Year	0%	0.1%	1%	5%	25%	50%	EBH
Dublin	1984	95	5	0	0	0	0	41
	1985	0	5	29	40	12	14	105
	1986	5	80	10	5	0	0	67
	1987	95	5	0	0	0	0	59
Wexford	1984	94	5	1	0	0	0	49
	1985	20	72	6	2	0	0	221
	1986	40	50	8	2	0	0	190
	1987	40	45	10	4.5	0.5	0	157
Buncrana	1984	30	70	0	0	0	0	216
	1985	10	70	20	0	0	0	120
	1986	95	5	0	0	0	0	107
	1987	50	25	20	5	0	0	207
Galway	1984	98	2	0	0	0	0	106
	1985	0	88	10	2	0	0	92
	1986	3	83	12	2	0	0	231
	1987	45	50	3	2	0	0	58
Tullamore	1984	93	5	0	0	0	0	19
	1985	0	40	40	20	0	0	30
	1986	20	55	20	5	0	0	63
	1987	30	70	0	0	0	0	22

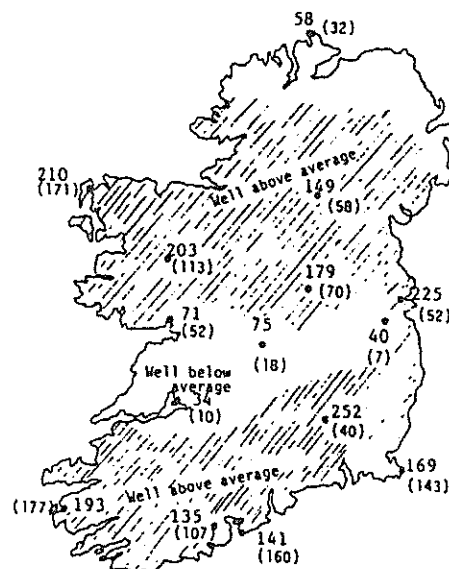


Fig. 2 Number of blight hours recorded from May 29-July 11 expressed as a percentage of average. Total in hours of blight weather for the same period in brackets ( ).