

METEOROLOGICAL SERVICE

METEOROLOGICAL OFFICE,
ROSSLARE,
CO. WEXFORD.



AGMETBL (02) 460

AGROMETEOROLOGICAL BULLETIN

JULY 1980

The Weather of July

The first week was dominated by changeable conditions. Outbreaks of rain and showers occurred in all regions. Rain was heavy in many areas on the 3rd, particularly in the west and northwest. Temperatures were below normal. A northwesterly airflow set in on the 8th and the period from the 8th to the 15th was cool and showery. Some of the showers were thundery. The heaviest falls of this period occurred on the 8th in eastern regions and on the 13th in southern and southeastern regions.

A moderate westerly airflow, occasionally fresh and gusty, dominated from the 16th to 21st. This period was dull with frequent outbreaks of rain or drizzle in all regions. A southwesterly airflow prevailed from the 22nd to 28th, in which there were prolonged periods of rain or drizzle in all areas. Heaviest falls occurred on the 22nd, 25th and on 27th/28th, especially in western and southwestern regions.

From the 29th to the end of the month the weather was warm and humid. Thunderstorms were widespread on the 29th and long spells of heavy and thundery rain occurred in most places. Drying conditions were generally good on the 30th and 31st however, although scattered showers continued to occur.

Monthly Amounts of Precipitation were above normal in most regions, well above normal in the south and southwest, and below normal in the midlands and east. Amounts varied from 21% of normal at Mallow to 63% at Dunsany. Many places had falls in excess of 25 mm on the 29th. Conditions suitable to the spread of potato blight were above normal in all regions apart from in the midlands and the northwest where they were below normal. Throughout the first three weeks spells of blight conditions were frequent, although of short duration, but the longer and more significant spells, accounting for more than half the monthly accumulation, occurred in the last decade. The unsettled weather favoured the spread of Septoria and Mildew in cereal crops; the drier conditions in eastern and north-midland regions tended to be more conducive to Mildew where it was reported at high levels.

Mean Monthly Air Temperature was below normal in all regions, varying from 1.4°C below normal at stations in the south-midlands and southeast to 0.6°C below normal in parts of the north-midlands. Soil temperatures (at 100 mm) varied from 2.4°C below normal at Kilkenny to 0.2°C below normal at Malin Head.

Mean Duration of Bright Sunshine varied from between 70% and 80% of normal at coastal and north-midland stations to some 55% of normal in the south midlands. The first decade of the month tended to be duller, especially in the midlands and mid-west, and the last decade tended to be brightest, especially in the south-midlands and eastern regions.

Strong and gusty breezes occurred on the 3rd/4th, 17th, 20th and on the 30th.

Summary. The month was cool and dull, and the weather was unsettled throughout. Sharp ground frost occurred in the southeast on the 21st. There was a surplus in soil moisture in all regions except in the east and midlands.

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; marked "e" in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

JULY 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND			
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR								GROUND		SOIL(10 CM)		MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS				
						MEAN MAJ.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST					MEAN DAILY	DIFFERENCE FROM AVERAGE		
																								MEAN DAILY (HRS.)	% OF AVERAGE
Carlow (Oak Park) Co. Carlow	1-10	8.7	/	3	2	16.3	8.6	12.4	/	7.0	01	0	88	32	4.0	02	0	/	/	/	/	/	/	3	/
	11-20	16.8	/	6	5	16.6	9.8	13.2	/	5.8	13	0	89	33	4.3	13	0	/	/	/	/	/	/	3	/
	21-end	35.4	/	8	6	19.2	11.8	15.5	/	4.6	21	0	122	66	1.0	21	0	/	/	/	/	/	/	3	/
	Month	60.9	/	17	13	17.4	10.1	13.8	/	4.6	21	0	299	131	1.0	21	0	/	/	/	/	/	/	4	3
Shannon Airport Co. Clare	1-10	14.1	-	5	3	16.8	10.8	13.8	-	8.8	01	0	94	38	4.9	01	0	15.4	-	2.76	-	4	0		
	11-20	36.8	-	6	6	16.9	11.2	14.0	-	9.0	15	0	97	41	7.6	16	0	15.1	-	3.20	-	5	0		
	21-end	49.5	-	9	9	18.9	13.7	16.3	-	10.0	21	0	131	75	5.8	21	0	16.3	-	3.32	-	6	1		
	Month	100.4	143	20	18	17.6	12.0	14.8	-0.7	8.8	01	0	322	154	4.9	01	0	15.6	-1.8	3.10	67	5	1		
Fermoy (Moore Park) Co. Cork	1-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	11-20	/	/	/	/	/	/	NOT	/	AVAILABLE	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Mallow Co. Cork	1-10	14.7	-	4	4	16.5	9.0	12.7	/	5.5	05	0	84	28	4.0	05	0	/	/	/	/	/	/	/	/
	11-20	47.9	-	7	6	16.8	10.8	13.8	/	8.5	20	0	94	38	5.0	20	0	/	/	/	/	/	/	/	/
	21-end	73.6	-	10	9	18.0	12.3	15.1	/	5.5	21	0	119	63	3.0	21	0	/	/	/	/	/	/	/	/
	Month	136.2	213	21	19	17.1	10.8	13.9	/	5.5	05	0	297	129	3.0	21	0	/	/	/	/	/	/	/	/
Roche's Point Co. Cork	1-10	7.2	-	6	2	16.1	10.2	13.1	-	8.9	05	0	88	32	5.0	05	0	14.6	-	4.81	-	5	2		
	11-20	29.8	-	6	5	16.8	11.4	14.1	-	9.0	16	0	97	41	4.5	16	0	14.6	-	3.27	-	6	1		
	21-end	56.1	-	9	7	16.7	12.8	14.7	-	8.8	21	0	114	58	3.5	21	0	15.8	-	3.89	-	6	2		
	Month	93.1	131	21	14	16.5	11.5	14.0	-1.2	8.8	21	0	299	131	3.5	21	0	15.0	-2.1	3.99	71	6	5		
Glencolumbkille Co. Donegal	1-10	19.6	/	7	7	14.8	10.1	12.5	/	8.4	06	0	81	25	5.0	08	0	/	/	/	/	/	/	3	/
	11-20	47.9	/	8	6	15.2	10.2	12.7	/	7.3	14	0	83	27	-0.5	14	1	/	/	/	/	/	/	4	/
	21-end	86.9	/	10	7	18.0	12.5	15.3	/	9.5	21	0	120	64	3.2	21	0	/	/	/	/	/	/	4	/
	Month	154.4	/	25	20	16.1	11.0	13.5	/	7.3	14	0	284	116	-0.5	14	1	/	/	/	/	/	/	4	/
Glenties Co. Donegal	1-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	11-20	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	/	/	/	/	/	/	NOT	/	AVAILABLE	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

JULY 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND	
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10 CM)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (MS ⁻¹)	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.0°C	DEGREE DAYS ABOVE 10.0°C	LOWEST *GRASS-MIN. °	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE				
Malin Head e Co. Donegal	1-10	20.4	-	6	4	13.7	10.5	12.1	-	8.8	06	0	77	21	6.6	03	0	15.1	-	2.69	-	6	2
	11-20	37.4	-	7	6	14.5	10.6	12.6	-	9.7	15	0	82	26	4.4	14	0	15.4	-	5.20	-	7	1
	21-end	52.6	-	10	9	17.6	12.8	15.2	-	10.7	21	0	119	63	7.5	21	0	15.5	-	3.53	-	7	1
	Month	110.4	130	23	19	15.3	11.3	13.3	-0.7	8.8	06	0	278	110	4.4	14	0	15.4	-0.2	3.80	83	7	4
Casement Aerodrome Co. Dublin	1-10	21.5	-	4	3	15.7	8.7	12.2	-	6.5	03	0	78	22	3.1	10	0	13.6	-	1.75	-	4	0
	11-20	14.4	-	5	3	16.1	9.1	12.6	-	6.9	16	0	82	26	4.0	13	0	14.1	-	3.12	-	5	1
	21-end	7.8	-	5	1	19.9	12.1	16.0	-	6.0	21	0	128	72	6.2	26	0	16.7	-	5.43	-	5	1
	Month	43.7	81	14	7	17.3	10.1	13.7	-1.5	6.0	21	0	288	120	3.1	10	0	14.8	-	3.50	72	5	2
Dublin Airport e Co. Dublin	1-10	10.6	-	5	3	16.3	9.4	12.8	-	7.4	10	0	84	28	4.5	02	0	15.3	-	3.81	-	4	0
	11-20	14.2	-	6	4	16.5	9.9	13.2	-	7.3	13	0	88	32	4.5	16	0	15.4	-	3.17	-	5	1
	21-end	14.6	-	4	3	19.1	12.5	15.8	-	6.5	21	0	126	70	4.0	21	0	17.0	-	5.12	-	5	0
	Month	39.4	65	15	10	17.3	10.6	14.0	-1.1	6.5	21	0	298	130	4.0	21	0	15.9	-1.5	4.07	79	5	1
Kinsealy Co. Dublin	1-10	9.0	/	5	2	16.6	8.6	12.6	/	6.5	03	0	82	26	1.9	03	0	/	/	3.79	/	3	/
	11-20	10.4	/	4	3	17.0	9.6	13.3	/	6.4	16	0	89	33	2.0	17	0	/	/	3.04	/	4	/
	21-end	10.4	/	3	3	18.7	12.2	15.5	/	9.3	26	0	122	66	4.0	21	0	/	/	4.40	/	4	/
	Month	29.8	/	12	8	17.5	10.2	13.8	/	6.4	16	0	293	125	1.9	03	0	/	/	3.76	/	4	/
Galway Co. Galway	1-10	6.6	-	5	2	15.8	10.4	13.1	-	9.1	05	0	87	31	6.2	02	0	15.1	-	3.35	-	5	0
	11-20	24.2	-	6	4	16.4	10.2	13.3	-	6.5	13	0	89	33	4.0	13	0	15.5	-	3.32	-	6	2
	21-end	63.3	-	10	6	18.4	12.9	15.7	-	7.0	21	0	124	68	3.6	21	0	16.6	-	4.00	-	6	0
	Month	94.1	-	21	12	16.9	11.2	14.1	-	6.5	13	0	300	132	3.6	21	0	15.7	-	3.57	-	6	2
Killarney (Muokross Hse) Co. Kerry	1-10	26.7	/	6	4	15.6	9.8	12.7	/	5.6	02	0	83	27	0.2	02	0	/	/	1.97	/	/	/
	11-20	35.7	/	7	5	16.3	11.7	14.0	/	9.5	15	0	96	40	2.5	15	0	/	/	2.24	/	/	/
	21-end	50.4	/	11	9	17.7	12.3	15.0	/	6.2	21	0	117	61	1.5	21	0	/	/	3.32	/	/	/
	Month	112.8	/	24	18	16.6	11.3	13.9	/	5.6	02	0	296	128	0.2	02	0	/	/	2.54	/	/	/
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	8.2	-	6	3	15.5	10.1	12.8	-	5.3	02	0	85	29	3.0	02	0	15.9	-	4.51	-	5	0
	11-20	43.4	-	6	5	15.9	11.6	13.8	-	8.7	16	0	94	38	6.2	16	0	16.0	-	4.07	-	6	1
	21-end	110.6	-	10	10	17.8	12.7	15.3	-	6.8	21	0	120	64	4.7	21	0	16.1	-	2.25	-	6	1
	Month	162.2	173	22	18	16.5	11.5	14.0	-1.0	5.3	02	0	299	131	3.0	02	0	16.0	-1.1	3.57	76	6	2

Notes on the tables in January issue

TABLE 1 (Continued)

JULY 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND																
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR						GROUND				SOIL (10 CM)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS															
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE					MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS											
																												MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE
Tralee Lisdara Co. Kerry	1-10 11-20 21-end Month	/	/	/	/	/	/	NOT AVAILABLE	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Lullymore Co. Kildare	1-10 11-20 21-end Month	10.5 19.6 22.5 52.6	- - - 71	5 7 8 20	3 5 6 14	16.1 15.9 N/A -	8.2 8.3 11.5 9.4	12.2 12.1 N/A -	6.2 4.1 3.7 3.7	01 14 21 21	0 0 0 0	78 78 N/A -	22 23 N/A -	-3.2 -1.2 -2.0 -3.2	01 14 21 01	1 2 1 4	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	6 7 8 7	/
Kilkenny e Co. Kilkenny	1-10 11-20 21-end Month	9.3 24.0 32.5 65.8	- - - 104	3 6 8 17	2 5 7 14	16.8 16.9 18.6 17.5	8.9 10.1 11.9 10.3	12.8 13.5 15.3 13.9	- - - -1.4	7.2 6.7 3.7 3.7	05 13 21 21	0 0 0 0	84 91 120 295	28 35 64 127	5.3 4.9 1.5 1.5	03 16 21 21	0 0 0 0	15.3 15.0 16.4 15.6	- - - -2.4	2.27 2.17 3.58 2.70	- - - 54	- - - -	4 4 4 4	0 1 0 1	/	/	/	/	/	/	/	/	/					
Moonscoin (Silverspring) Co. Kilkenny	1-10 11-20 21-end Month	4.3 33.0 46.9 84.2	- - - 122	2 5 9 16	1 5 8 14	16.9 17.4 18.1 17.5	9.1 10.1 12.9 10.8	13.0 13.8 15.5 14.1	/	7.2 5.7 6.6 5.7	01 16 24 16	0 0 0 0	86 94 122 302	30 38 66 134	3.9 -0.1 0.2 -0.1	03 16 21 16	0 1 0 1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.93 2.64 3.74 3.12	/	
Ballinamore Co. Leitrim	1-10 11-20 21-end Month	23.4 30.4 59.3 113.1	- - - 123	10 6 10 26	6 5 7 18	15.8 16.5 19.2 17.2	9.3 9.5 11.9 10.3	12.6 13.0 15.5 13.8	/	7.9 6.5 5.9 5.9	07 14 21 21	0 0 0 0	82 86 123 291	26 30 67 123	4.4 1.9 2.2 1.9	02 14 21 14	0 0 0 0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.85 3.50 2.62 2.98	3 3 2 3	
Ardee (Boharnamoe) Co. Louth	1-10 11-20 21-end Month	13.9 16.3 15.9 46.1	/	3 4 6 13	2 3 4 9	16.2 16.4 19.7 17.5	8.4 7.1 10.8 8.8	12.3 11.7 15.3 13.2	/	5.7 3.5 4.0 3.5	10 14 21 14	0 0 0 0	79 74 120 273	23 18 64 105	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Ballinrobe (Creagh) Co. Mayo	1-10 11-20 21-end Month	9.1 27.7 107.9 144.7	/	5 5 9 19	5 4 8 17	N/A 18.3 19.0 -	9.5 8.7 11.6 10.0	- 13.5 15.3 -	/	7.6 4.1 7.9 4.1	02 13 21 13	0 0 0 0	- 91 120 -	- 35 64 -	3.8 1.1 3.4 1.1	01 13 21 13	0 0 0 0	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2.41 3.60 2.52 2.83	3 3 4 3

Notes on the tables in January issue

TABLE 1 (Continued)

JULY 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND	
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						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST °GRASS-MIN. °	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE				
Belmullet e Co. Mayo	1-10	6.9	-	4	3	15.1	10.0	12.6	-	8.1	07	0	82	26	4.5	07	0	16.1	-	3.71	-	6	0
	11-20	39.9	-	6	5	15.2	9.9	12.6	-	6.4	16	0	82	26	2.8	16	0	16.1	-	4.40	-	7	1
	21-end	56.6	-	9	6	17.6	12.1	14.8	-	6.4	24	0	115	59	4.5	24	0	15.9	-	2.61	-	7	2
	Month	103.4	132	19	14	16.0	10.7	13.4	-1.0	6.4	16	0	279	111	2.8	16	0	16.0	-0.4	3.54	74	7	3
Claremorris e Co. Mayo	1-10	16.3	-	8	4	15.3	9.5	12.4	-	8.0	01	0	81	25	5.1	01	0	14.2	-	1.91	-	3	0
	11-20	18.8	-	7	5	16.5	9.0	12.7	-	3.7	13	0	84	28	2.5	13	0	14.8	-	3.21	-	5	1
	21-end	81.8	-	10	9	18.2	12.1	15.2	-	6.0	21	0	118	62	2.1	21	0	15.4	-	2.47	-	5	2
	Month	116.9	142	25	18	16.7	10.3	13.5	-0.9	3.7	13	0	283	115	2.1	21	0	14.8	-1.3	2.53	62	4	3
Glenamoy Co. Mayo	1-10	9.3	-	4	3	15.5	9.7	12.6	/	7.4	06	0	82	26	5.0	08	0	/	/	2.94	/	/	/
	11-20	52.1	-	6	5	15.5	9.9	12.7	/	7.7	14	0	83	27	4.8	14	0	/	/	3.77	/	/	/
	21-end	68.2	-	9	8	18.1	11.6	14.8	/	5.7	21	0	116	60	4.9	21	0	/	/	2.89	/	N/A	/
	Month	129.6	136	19	16	16.4	10.4	13.4	/	5.7	21	0	281	113	4.8	14	0	/	/	3.19	/	/	/
Dunsany (Grange) Co. Meath	1-10	13.4	-	5	3	15.4	7.5	11.5	/	6.0	10	0	71	15	2.0	10	0	/	/	2.02	/	/	/
	11-20	18.5	-	7	3	15.8	7.7	11.7	/	4.3	13	0	74	18	-0.5	13	2	/	/	3.07	/	/	/
	21-end	13.0	-	6	4	18.9	11.5	15.2	/	4.3	21	0	119	63	-2.0	21	1	/	/	4.17	/	N/A	/
	Month	44.9	63	18	10	16.8	9.0	12.9	/	4.3	13	0	264	96	-2.0	21	3	/	/	3.12	/	/	/
Clones e Co. Monaghan	1-10	14.6	-	7	2	15.4	9.3	12.3	-	8.0	01	0	79	23	5.0	01	0	13.6	-	2.38	-	3	0
	11-20	24.7	-	6	5	16.1	9.4	12.7	-	6.3	14	0	84	28	0.7	14	0	14.1	-	3.38	-	4	0
	21-end	30.0	-	9	7	18.9	12.1	15.5	-	5.3	21	0	122	66	-0.9	21	1	15.3	-	2.93	-	4	0
	Month	69.3	87	22	14	16.8	10.3	13.6	-0.8	5.3	21	0	285	117	-0.9	21	1	14.4	-2.0	2.90	74	4	0
Birr e Co. Offaly	1-10	25.1	-	6	5	16.3	9.7	13.0	-	7.3	01	0	86	30	4.3	01	0	15.1	-	1.99	-	4	1
	11-20	18.4	-	6	6	16.2	9.6	12.9	-	5.6	13	0	85	30	3.3	13	0	14.8	-	2.05	-	4	0
	21-end	59.7	-	10	8	18.8	12.7	15.8	-	5.7	21	0	125	69	1.7	21	0	16.4	-	3.30	-	5	0
	Month	103.2	139	22	19	17.1	10.7	13.9	-1.2	5.6	13	0	296	129	1.7	21	0	15.5	-1.9	2.47	54	4	1
Thurles Co. Tipperary	1-10																	/	/	/	/	/	/
	11-20																	/	/	/	/	/	/
	21-end																	/	/	/	/	/	/
	Month																	/	/	/	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

JULY 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C													BRIGHT SUNSHINE		WIND		
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10 CM)			MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY					DIFFERENCE FROM AVERAGE
Dungarvan (Ballygagin) Co. Waterford	1-10	6.6	-	4	3	17.0	9.6	13.3	/	7.1	02	0	89	33	2.0	02	0	/	/	4.18	/	/	/
	11-20	42.8	-	6	6	17.3	11.1	14.2	/	7.2	16	0	97	41	1.6	16	0	/	/	3.08	/	/	/
	21-end	80.9	-	10	10	17.8	12.0	14.9	/	6.1	21	0	115	59	2.1	21	0	/	/	N/A	/	/	/
	Month	130.3	194	20	19	17.4	10.9	14.1	/	6.1	21	0	301	133	1.6	16	0	/	/	-	/	/	/
Mullingar e Co. Westmeath	1-10	17.4	-	5	4	15.8	9.2	12.5	-	7.9	05	0	81	25	6.0	01	0	14.1	-	2.99	-	4	1
	11-20	18.9	-	5	4	16.2	9.4	12.8	-	6.0	13	0	84	28	3.2	14	0	14.6	-	3.46	-	4	1
	21-end	20.6	-	10	6	18.7	12.2	15.5	-	5.0	21	0	122	66	2.3	21	0	15.5	-	3.25	-	5	1
	Month	56.9	69	20	14	17.0	10.3	13.6	-0.6	5.0	21	0	287	119	2.3	21	0	14.7	-2.0	3.23	72	4	3
Campile (Ballysoop) Co. Wexford	1-10	9.8	-	4	3	16.3	8.9	12.6	/	6.1	05	0	82	26	-1.2	05	1	/	/	2.67	/	/	/
	11-20	33.4	-	7	5	16.9	9.8	13.4	/	6.8	16	0	90	34	-1.2	16	1	/	/	2.84	/	/	/
	21-end	63.6	-	8	7	17.6	11.8	14.7	/	5.8	21	0	113	57	-2.1	21	1	/	/	3.59	/	/	/
	Month	106.8	157	19	15	16.9	10.2	13.6	/	5.8	21	0	285	117	-2.1	21	3	/	/	3.05	/	/	/
Clonroche Co. Wexford	1-10	14.3	/	4	2	16.1	8.6	12.3	/	7.1	03	0	80	24	1.7	05	0	/	/	3.12	/	2	/
	11-20	41.9	/	8	6	16.3	9.2	12.8	/	5.6	16	0	84	28	-1.7	16	2	/	/	3.17	/	2	/
	21-end	56.7	/	9	8	17.4	11.5	14.4	/	4.9	21	0	111	55	-3.0	21	2	/	/	3.99	/	2	/
	Month	112.9	/	21	16	16.6	9.8	13.2	/	4.9	21	0	275	107	-3.0	21	4	/	/	3.45	/	2	/
Johnstown Castle Co. Wexford	1-10	16.2	-	4	3	16.1	9.2	12.6	/	6.6	05	0	83	27	3.4	05	0	/	/	5.08	/	3	/
	11-20	39.6	-	7	6	16.2	10.2	13.2	/	7.9	16	0	88	32	4.1	16	0	/	/	3.54	/	4	/
	21-end	43.9	-	8	6	17.3	11.6	14.5	/	5.8	21	0	111	55	-1.1	21	1	/	/	4.35	/	4	/
	Month	99.7	140	19	15	16.6	10.3	13.5	/	5.8	21	0	282	114	-1.1	21	1	/	/	4.33	/	4	/
Rosslare e Co. Wexford	1-10	3.7	-	3	2	15.9	10.3	13.1	-	7.9	05	0	87	31	5.9	05	0	16.3	-	5.97	-	5	0
	11-20	33.5	-	6	5	16.1	11.1	13.6	-	9.5	20	0	92	36	5.6	13	0	15.1	-	3.46	-	5	1
	21-end	23.5	-	8	5	17.0	12.5	14.7	-	6.7	21	0	114	58	1.6	21	0	16.8	-	4.86	-	5	0
	Month	60.7	110	17	12	16.3	11.3	13.8	-1.4	6.7	21	0	293	125	1.6	21	0	16.1	-2.1	4.77	74	5	1

Notes on the tables in January issue

TABLE 2

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

JULY 1980

STATION	PERIOD	SOLAR RADIATION	P.E. (mm)	SOIL MOISTURE (mm)		
		Amount Joule/cm ²	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10		20	11	27	-
	11-20		20	3	30	-
	21-end	-	20	-	15	-
	Month		60	-	-	-
Kinsealy* Co. Dublin	1-10	13808	10	-	26	1
	11-20	13096	28	18	44	-
	21-end	16354	17	4	48	-
	Month	43258	55	-	-	-
Cahiriveen ^e (Valentia Obsy.) Co. Kerry	1-10	16568	19	13	13	-
	11-20	15487	19	-	0	26
	21-end	11822	6	-	0	103
	Month	43877	44	-	-	-
Kilkenny ^e Co. Kilkenny	1-10	14058				
	11-20	13543	-	-	-	-
	21-end	14369				
	Month	41970				
Ballinamore Co. Leitrim	1-10		16	-	0	7
	11-20		16	-	0	15
	21-end		18	-	0	42
	Month		50	-	-	-
Glenamoy/ ^f Co. Mayo	1-10		21	14	25	-
	11-20		25	-	0	29
	21-end		15	-	0	53
	Month		61	-	-	-
Birr ^e Co. Offaly	1-10	14644				
	11-20	12773				
	21-end	15022	-	-	-	-
	Month	42439				
Johnstown Castle Co. Wexford	1-10		27	11	35	-
	11-20		15	-	9	26
	21-end		23	-	0	14
	Month		65	-	-	-

* , /, See notes in January issue.