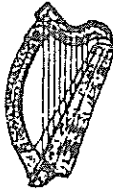


# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

JULY 1977

### The Weather in July

During the first four days southerly winds dominated. The weather was warm and while there was some rain on 1st and 2nd, especially in the west, it was dry on 3rd and 4th.

From 5th to 14th winds were northeasterly and it was warm and mostly dry. Thundery showers affected some areas between 5th and 8th.

The Atlantic influence prevailed from 15th to 31st. Winds were between southwest and northwest and air temperatures were about normal. The bulk of the month's rain fell between 15th and 24th. Two cool spells occurred between 18th and 21st and from 25th to 28th when winds were from a northwesterly direction. The last three days of July were dry with day-time temperatures rising gradually.

Rainfall for the month ranged from 30% to 65% of normal generally and exceeded 70% of normal only in some western and northwestern coastal counties. Soil moisture deficits were about 75mm (3 inches) in the east, south and midlands and grass growth was very slow. In the west and northwest soil moisture deficits were roughly 55 mm and grass growth was better.

Mean Daily Duration of Bright Sunshine was above normal except on parts of the west coast where it varied between 89% and 100% of normal. Elsewhere values amounted to between 105% and 125% of normal and exceeded 140% of normal at Clones and Mullingar due mainly to sunny conditions between 4th and 14th.

Mean Monthly Air Temperatures ranged from 0.1°C to 0.6°C above normal on coasts but were from 0.3°C to 1.1°C above normal inland. Soil temperatures at 10 mm ranged from 0.3°C to 1.3°C above normal except on parts of the southeast coast. The first half of the month was warm but the latter half was cool. Ground frost affected a few areas on 16th, 21st, 29th and 31st. At Clonroche between 2°C and 3°C of ground frost were recorded on both 29th and 31st.

Strong Winds gusting to between 35 Kts and 50 Kts affected many areas on 2nd, 17th and 23rd.

Summary. July was dry with above normal temperatures. Only two significant spells of potato blight weather occurred, on 16th and 17th and from 21st to 23rd.

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 I.

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10 cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Aft Frost	Degree Days Above 4.0°C	Degree Days Above 10.0°C	Lowest	Grass Minimum	Day					No. of Days with Ground Frost	Mean Daily
mm	%	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	hr	%	Kt			
Carlow (Oak Park) Co. Carlow	1-10	0.8	-	1	0	17.6	-	9.8	05	0	133	77	6.4	10	0	-	-	7.21	-	6	-
	11-20	11.4	-	3	3	15.7	-	8.7	16	0	114	58	4.5	16	0	-	-	4.89	-	6	-
	21-end	8.2	-	6	3	15.2	-	4.8	29	0	119	58	-0.7	29	1	-	-	4.35	-	6	-
	Month	20.4	-	10	6	16.1	-	4.8	29	0	366	193	-0.7	29	1	-	-	5.45	-	6	-
Shannon Airport Co. Clare	1-10	4.9	-	3	2	18.0	-	12.2	03	0	136	80	8.3	03	0	18.7	-	6.90	-	8	1
	11-20	19.7	-	3	3	16.5	-	9.8	16	0	121	65	4.1	16	0	19.0	-	5.44	-	8	1
	21-end	41.8	-	5	4	15.4	-	9.1	29	0	123	61	4.0	21	0	16.7	-	3.22	-	10	1
	Month	66.4	79	11	9	16.6	+1.1	9.1	29	0	380	206	4.0	21	0	18.1	+0.7	5.12	110	9	3
Fermoy (Moore Park) Co. Cork	1-10	3.2	-	1	1	17.3	-	9.5	07	0	129	73	5.2	05	0	-	-	6.28	-	5	-
	11-20	9.6	-	4	2	15.1	-	6.9	16	0	107	51	0.8	16	0	-	-	5.15	-	5	-
	21-end	11.6	-	5	1	14.7	-	5.9	21	0	114	52	0.2	21	0	-	-	3.90	-	7	-
	Month	24.4	-	10	4	15.7	-	5.9	21	0	350	176	0.2	21	0	-	-	5.07	-	6	-
Mallow Co. Cork	1-10	3.9	-	2	2	17.4	-	9.8	07	0	130	74	5.5	05	0	-	-	5.14	-	-	-
	11-20	11.2	-	5	3	15.6	-	7.6	16	0	112	56	0.9	16	0	-	-	3.77	-	-	-
	21-end	9.3	-	5	2	15.2	-	6.4	29	0	119	57	0.1	21	0	-	-	3.77	-	-	-
	Month	24.4	31	12	7	16.0	-	6.4	29	0	361	187	0.1	21	0	-	-	4.21	-	-	-
Roche's Point Co. Cork	1-10	7.3	-	3	1	15.9	-	11.1	03	0	115	59	9.2	05	0	17.7	-	6.82	-	10	0
	11-20	8.6	-	2	2	15.8	-	10.5	20	0	115	59	8.1	12	0	18.4	-	6.34	-	11	1
	21-end	11.0	-	5	2	15.6	-	9.4	21	0	123	62	5.6	21	0	17.2	-	5.92	-	12	2
	Month	26.9	38	10	5	15.8	+0.6	9.4	21	0	353	180	5.6	21	0	17.7	+0.6	6.35	113	11	3
Glencolumbkille Co. Donegal	1-10	38.6	-	5	5	16.1	-	9.0	10	0	117	61	4.0	10	0	-	-	5.15	-	5	-
	11-20	26.7	-	5	5	15.0	-	10.5	20	0	106	50	5.7	12	0	-	-	5.55	-	8	-
	21-end	38.5	-	10	8	13.6	-	10.0	21	0	102	40	4.3	31	0	-	-	1.36	-	8	-
	Month	103.8	-	20	18	14.9	-	9.0	10	0	325	151	4.0	10	0	-	-	3.94	-	7	-
Glenties Co. Donegal	1-10	32.7	-	4	4	16.8	-	7.7	05	0	120	64	2.0	05	0	-	-	5.12	-	-	-
	11-20	33.8	-	6	6	14.7	-	9.2	13	0	103	47	3.2	13	0	-	-	4.83	-	-	-
	21-end	46.2	-	8	8	13.3	-	5.2	29	0	99	37	-0.3	29	1	-	-	1.11	-	-	-
	Month	102.7	82	18	18	14.9	-	5.2	29	0	322	148	-0.3	29	1	-	-	3.60	-	-	-

See January issue of Bulletin for explanatory notes on the tables.

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest	Grass Minimum	Day					No. of Days with Ground Frost	Mean Daily
mm	%			°C	°C	°C					°C	°C	°C	°C	°C	Hr	%	Kt			
Malin Head Co. Donegal	1-10	13.1	-	4	4	15.2	-	10.7	03	0	113	57	7.2	03	0	17.6	-	5.97	-	8	1
	11-20	35.1	-	6	5	14.0	-	10.0	15	0	97	41	6.7	15	0	18.0	-	6.67	-	11	4
	21-end	30.7	-	7	4	14.1	-	10.5	29	0	107	45	7.0	29	0	15.7	-	2.53	-	13	3
	Month	78.9	77	17	13	14.4	+0.4	10.0	15	0	317	143	6.7	15	0	17.0	+1.5	4.97	109	11	8
Dublin Airport Co. Dublin	1-10	0.5	-	1	0	16.8	-	12.2	03	0	124	68	7.7	04	0	20.0	-	8.65	-	7	0
	11-20	13.7	-	4	1	15.1	-	9.8	16	0	104	48	6.1	11	0	18.7	-	5.70	-	9	1
	21-end	10.8	-	6	4	14.7	-	7.1	29	0	114	52	3.8	29	0	17.3	-	4.21	-	9	0
	Month	25.0	36	11	5	15.5	+0.4	7.1	29	0	342	168	3.8	29	0	18.6	+1.3	6.12	118	8	1
Kinsealy Co. Dublin	1-10	0	-	0	0	16.1	-	8.6	02	0	118	62	2.7	02	0	-	-	8.53	-	5	-
	11-20	15.8	-	6	2	14.8	-	9.1	11	0	105	49	4.7	11	0	-	-	5.69	-	8	-
	21-end	7.3	-	5	4	14.8	-	6.8	29	0	116	54	4.7	29	0	-	-	4.53	-	8	-
	Month	23.1	-	11	6	15.2	-	6.8	29	0	339	165	2.7	02	0	-	-	6.19	-	7	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	1.1	-	2	0	16.4	-	10.0	05	0	120	64	7.0	10	0	-	-	8.24	-	4	-
	11-20	11.7	-	7	4	14.9	-	7.8	11	0	105	49	5.3	11	0	-	-	5.78	-	6	-
	21-end	21.5	-	7	5	14.7	-	6.1	29	0	114	52	1.5	29	0	-	-	4.22	-	6	-
	Month	34.3	-	16	9	15.3	-	6.1	29	0	339	165	1.5	29	0	-	-	6.02	-	5	-
Galway (Univ. Coll.) Co. Galway	1-10	9.5	-	3	3	17.8	-	12.3	05	0	134	78	5.0	05	0	-	-	7.85	-		
	11-20	21.5	-	5	5	16.4	-	10.3	16	0	122	66	4.6	16	0	-	-	6.59	-		
	21-end	18.5	-	7	3	14.7	-	9.4	29	0	113	52	3.0	21	0	-	-	3.86	-	NA	
	Month	49.5	-	15	11	16.3	-	9.4	29	0	369	196	3.0	21	0	-	-	6.03	-		
Killarney (Muckross Hse) Co. Kerry	1-10	14.9	-	3	3	16.5	-	10.2	05	0	121	65	4.5	05	0	-	-	5.83	-		
	11-20	9.3	-	3	2	15.7	-	8.4	16	0	113	57	2.6	16	0	-	-	3.35	-		
	21-end	31.2	-	8	6	14.9	-	7.8	21	0	116	55	0.5	21	0	-	-	3.17	-		
	Month	55.4	-	14	11	15.7	-	7.8	21	0	350	177	0.5	21	0	-	-	4.09	-		
Gahiroiveen (Valentia Obay.) Co. Kerry	1-10	15.6	-	3	3	16.2	-	9.6	05	0	117	61	6.9	05	0	17.5	-	5.68	-	10	2
	11-20	15.4	-	4	4	15.5	-	10.5	13	0	112	56	6.8	16	0	18.4	-	4.59	-	7	0
	21-end	22.4	-	8	6	14.8	-	7.8	21	0	115	53	4.0	21	0	16.7	-	3.47	-	10	0
	Month	53.4	50	15	13	15.5	+0.5	7.8	21	0	344	170	4.0	21	0	17.5	+0.3	4.55	97	9	2

See January issue of Bulletin for explanatory notes on the tables.

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND				
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND		SOIL (10cm)			Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts			
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average	
mm	%	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	Hr	%	Kt						
Tralee (Caherweesheen) Co. Kerry	1-10	9.4	-	3	1	17.2	-	10.5	09	0	128	72	5.9	03	0	-	-	-	-	-	-	-
	11-20	15.2	-	5	3	15.8	-	8.5	13	0	115	59	5.0	12	0	-	-	-	-	-	-	-
	21-end	29.6	-	8	6	15.3	-	7.5	21	0	121	59	4.2	21	0	-	-	-	-	-	-	-
	Month	54.2	-	16	10	16.1	-	7.5	21	0	364	190	4.2	21	0	-	-	-	-	-	-	-
Lullymore Co. Kildare	1-10	0.7	-	2	0	16.3	-	8.6	05	0	119	63	4.0	10	0	-	-	-	7.58	-	7	-
	11-20	19.0	-	5	3	14.6	-	7.3	16	0	102	46	1.0	11	0	-	-	-	5.19	-	9	-
	21-end	12.2	-	7	4	14.0	-	3.4	31	0	105	44	-1.6	29	2	-	-	-	3.98	-	9	-
	Month	31.9	-	14	7	14.9	-	3.4	31	0	326	153	-1.6	29	2	-	-	-	5.53	-	8	-
Kilkenny Co. Kilkenny	1-10	2.6	-	3	1	17.5	-	8.8	03	0	131	75	5.7	03	0	19.9	-	-	7.52	-	5	0
	11-20	11.4	-	5	2	15.5	-	7.6	16	0	111	55	3.8	16	0	19.3	-	-	5.33	-	6	0
	21-end	14.6	-	5	4	15.2	-	5.7	21	0	119	57	1.1	21	0	17.2	-	-	4.12	-	6	0
	Month	28.6	40	13	7	16.0	+0.7	5.7	21	0	361	187	1.1	21	0	18.7	+0.7	-	5.61	113	6	0
Mooncoin (Silterspring) Co. Kilkenny	1-10	1.3	-	2	0	17.1	-	9.0	05	0	127	71	3.3	10	0	-	-	-	6.08	-	-	-
	11-20	7.9	-	2	1	15.4	-	7.2	16	0	110	54	2.8	16	0	-	-	-	5.02	-	-	-
	21-end	19.4	-	3	2	15.2	-	4.6	29	0	119	57	-0.6	21	2	-	-	-	4.54	-	-	-
	Month	28.6	-	7	3	15.8	-	4.6	29	0	356	182	-0.6	21	2	-	-	-	5.19	-	-	-
Ballinamore Co. Leitrim	1-10	8.2	-	4	2	17.1	-	8.3	05	0	127	71	4.1	03	0	-	-	-	7.68	-	5	-
	11-20	21.5	-	4	4	15.2	-	8.8	16	0	108	52	4.9	16	0	-	-	-	4.90	-	6	-
	21-end	15.6	-	6	5	14.0	-	7.4	29	0	105	44	0.6	29	0	-	-	-	2.77	-	7	-
	Month	45.3	-	14	11	15.3	-	7.4	29	0	340	167	0.6	29	0	-	-	-	5.04	-	6	-
Ardee (Beharnamoe) Co. Louth	1-10	0.2	-	1	0	16.3	-	9.3	07	0	119	63	5.7	07	0	-	-	-	-	-	-	-
	11-20	17.7	-	7	5	13.7	-	7.2	11	0	93	37	3.8	16	0	-	-	-	-	-	-	-
	21-end	13.3	-	7	4	14.6	-	4.7	29	0	113	51	1.1	29	0	-	-	-	-	-	-	-
	Month	31.2	-	15	9	14.9	-	4.7	29	0	325	151	1.1	29	0	-	-	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	19.1	-	6	4	16.7	-	9.2	05	0	123	67	4.2	05	0	-	-	-	6.31	-	6	-
	11-20	38.6	-	3	3	15.7	-	9.1	11	0	114	58	4.1	11	0	-	-	-	6.18	-	7	-
	21-end	16.7	-	7	6	14.6	-	6.5	29	0	112	50	1.8	29	0	-	-	-	3.00	-	6	-
	Month	74.4	-	16	13	15.6	-	6.5	29	0	349	175	1.8	29	0	-	-	-	5.09	-	6	-

See January issue of Bulletin for explanatory notes on the tables.

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR				GROUND			SOIL (10cm)			Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
mm	%	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	hr	%	kt					
Belmullet Co. Mayo	1-10	21.5	-	3	3	15.2	-	10.6	05	0	108	52	7.0	05	0	17.1	-	4.87	-	14	3
	11-20	15.7	-	6	4	14.6	-	9.8	15	0	102	46	6.0	15	0	17.7	-	5.35	-	13	1
	21-end	20.6	-	10	5	13.9	-	6.8	21	0	105	44	3.0	21	0	16.1	-	2.69	-	12	3
	Month	57.8	66	19	12	14.5	+0.1	6.8	21	0	315	142	3.0	21	0	16.9	+0.4	4.25	89	13	7
Claremorris Co. Mayo	1-10	20.1	-	5	4	16.7	-	8.4	05	0	123	67	5.5	05	0	17.8	-	7.28	-	7	0
	11-20	13.4	-	4	4	15.5	-	9.1	16	0	111	55	5.7	11	0	18.2	-	5.52	-	7	0
	21-end	19.3	-	7	6	14.2	-	6.3	21	0	108	46	1.4	21	0	16.0	-	2.72	-	7	0
	Month	52.8	54	16	14	15.4	+1.0	6.3	21	0	342	168	1.4	21	0	17.3	+1.3	5.09	125	7	0
Glenties Co. Mayo	1-10	24.7	-	3	1	15.4	-	8.0	05	0	110	54	4.4	05	0	-	-	4.36	-	-	-
	11-20	27.9	-	6	5	14.2	-	8.3	16	0	98	42	5.3	15	0	-	-	4.55	-	NA	-
	21-end	25.8	-	9	8	13.6	-	5.0	21	0	101	39	1.6	21	0	-	-	1.85	-	-	-
	Month	78.4	-	18	14	14.4	-	5.0	21	0	309	135	1.6	21	0	-	-	3.53	-	-	-
Dunsany (Grange) Co. Meath	1-10	0.1	-	0	0	16.3	-	9.0	05	0	119	63	4.5	05	0	-	-	8.30	-	NA	-
	11-20	14.0	-	5	4	14.3	-	7.0	16	0	101	45	1.9	11	0	-	-	5.37	-	-	-
	21-end	12.9	-	8	5	14.0	-	3.8	29	0	106	45	-1.8	29	2	-	-	3.81	-	-	-
	Month	27.0	34	13	9	14.8	-	3.8	29	0	326	153	-1.8	29	2	-	-	5.76	-	-	-
Clonee Co. Monaghan	1-10	14.3	-	4	3	17.4	-	10.5	03	0	130	74	7.7	03	0	17.6	-	8.90	-	7	0
	11-20	27.2	-	5	3	15.2	-	9.2	16	0	109	53	6.1	16	0	17.0	-	5.37	-	7	0
	21-end	11.3	-	8	4	14.2	-	8.5	29	0	108	46	5.2	29	0	15.2	-	3.64	-	9	0
	Month	52.8	58	17	10	15.5	+1.1	8.5	29	0	347	173	5.2	29	0	16.6	+0.1	5.89	151	8	0
Birr Co. Offaly	1-10	5.4	-	3	2	17.5	-	10.0	07	0	132	76	6.6	05	0	19.1	-	8.10	-	8	0
	11-20	15.4	-	4	3	14.9	-	7.6	11	0	105	49	3.9	16	0	18.7	-	5.13	-	8	1
	21-end	14.9	-	7	5	14.4	-	4.9	31	0	111	50	2.4	31	0	16.3	-	3.18	-	8	1
	Month	35.7	42	14	10	15.6	+0.5	4.9	31	0	348	175	2.4	31	0	18.0	+0.7	5.40	119	8	2
Thurles Co. Tipperary	1-10	6.0	-	4	2	-	-	-	-	-	-	-	-	-	-	-	-	8.23	-	-	-
	11-20	14.1	-	4	3	-	-	-	-	-	-	-	-	-	-	-	-	5.31	-	-	-
	21-end	6.7	-	2	2	-	-	-	-	-	-	-	-	-	-	-	-	4.40	-	-	-
	Month	26.8	33	10	7	-	-	-	-	-	-	-	-	-	-	-	-	5.93	-	-	-

See January issue of Bulletin for explanatory notes on the tables.

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE and WIND

July, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10 cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
mm	%	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	Hr	%	Kt					
Dungarvan (Ballygagin) Co. Waterford	1-10	2.7	-	1	1	17.4	-	9.7	03	0	130	74	6.7	03	0	-	-	7.29	-	3	-
	11-20	9.3	-	3	2	15.8	-	9.2	16	0	114	58	4.9	16	0	-	-	5.89	-	4	-
	21-end	13.7	-	6	3	15.9	-	6.7	21	0	127	65	3.5	21	0	-	-	5.23	-	4	-
	Month	25.7	-	10	6	16.3	-	6.7	21	0	371	197	3.5	21	0	-	-	6.11	-	4	-
Bullinger Co. Westmeath	1-10	14.8	-	4	3	16.9	-	9.9	05	0	124	68	6.7	03	0	17.7	-	9.11	-	8	1
	11-20	13.4	-	5	3	14.8	-	8.0	16	0	105	49	3.8	16	0	17.3	-	5.85	-	8	1
	21-end	10.6	-	7	3	13.9	-	4.8	31	0	104	43	3.0	31	0	15.8	-	4.24	-	8	1
	Month	38.8	42	16	9	15.1	+0.3	4.8	31	0	333	160	3.0	31	0	16.9	+0.3	6.33	142	8	3
Campile (Ballysop) Co. Wexford	1-10	2.3	-	2	1	17.0	-	9.7	05	0	126	70	7.1	04	0	-	-	7.62	-		
	11-20	9.0	-	2	2	15.6	-	8.4	16	0	112	56	4.4	16	0	-	-	5.11	-	NA	
	21-end	13.1	-	2	2	15.0	-	6.4	21	0	117	56	1.6	21	0	-	-	5.07	-		
	Month	24.4	-	6	5	15.9	-	6.4	21	0	355	182	1.6	21	0	-	-	5.91	-		
Clonroche Co. Wexford	1-10	4.0	-	3	2	17.0	-	10.5	05	0	126	70	4.0	10	0	-	-	7.77	-	5	
	11-20	12.3	-	2	2	15.2	-	8.1	16	0	108	52	-1.0	16	1	-	-	5.37	-	5	
	21-end	16.1	-	6	2	14.5	-	6.6	31	0	111	50	-2.6	31	3	-	-	4.99	-	5	
	Month	32.4	-	11	6	15.5	-	6.6	31	0	345	172	-2.6	31	4	-	-	6.01	-	5	
Johnstown Castle Co. Wexford	1-10	4.1	-	3	1	16.3	-	11.3	05	0	119	63	8.0	05	0	-	-	7.62	-	6	
	11-20	13.7	-	2	2	15.1	-	10.3	15	0	107	51	5.0	15	0	-	-	6.04	-	6	
	21-end	12.0	-	2	2	14.7	-	7.9	21	0	113	52	3.6	21	0	-	-	5.15	-	7	
	Month	29.8	37	7	5	15.3	-	7.9	21	0	339	166	3.6	21	0	-	-	6.23	-	6	
Rosslare Co. Wexford	1-10	2.6	-	1	1	15.4	-	11.6	05	0	110	54	7.9	05	0	18.8	-	7.81	-	12	2
	11-20	11.5	-	3	2	15.5	-	10.7	20	0	111	55	7.7	15	0	18.4	-	6.70	-	11	1
	21-end	15.9	-	2	2	14.9	-	9.0	21	0	116	54	6.5	21	0	17.3	-	5.83	-	10	2
	Month	30.0	45	6	5	15.3	+0.1	9.0	21	0	337	163	6.5	21	0	18.1	-0.3	6.75	105	11	5

See January issue of Bulletin for explanatory notes on the tables.

TABLE 2.

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

July, 1977

STATION	PERIOD	SOLAR RADIATION	P. E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
		Joule/cm <sup>2</sup>	mm	mm	mm	mm
Carlow (Oak Park) Co. Carlow	1-10	-	25	18	70	-
	11-20	-	30	5	75	-
	21-end	-	31	8	83	-
	Month	-	86	-	-	-
Kinsealy* Co. Dublin	1-10	20653	44	27	92	-
	11-20	16699	40	-	89	3
	21-end	16150	45	8	97	-
	Month	53502	129	-	-	-
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	17337	8	-	25	16
	11-20	16720	25	9	34	-
	21-end	16496	21	-	32	2
	Month	50553	54	-	-	-
Kilkenny e Co. Kilkenny	1-10	20323	-	-	-	-
	11-20	18847	-	-	-	-
	21-end	18025	-	-	-	-
	Month	57195	-	-	-	-
Ballinamore Co. Leitrim	1-10		23	8	64	-
	11-20	NA	27	-	59	5
	21-end		22	-	58	1
	Month		72	-	-	-
Glenamoy Co. Mayo	1-10	-	26	-	39	1
	11-20	-	24	-	33	6
	21-end	-	20	-	26	7
	Month	-	70	-	-	-
Birr e Co. Offaly	1-10	20277	-	-	-	-
	11-20	17502	-	-	-	-
	21-end	15692	-	-	-	-
	Month	53471	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	28	15	74	-
	11-20	-	39	6	80	-
	21-end	-	33	3	83	-
	Month	-	100	-	-	-

See January issue of Bulletin for explanatory notes on the tables. \*Solar Radiation values for Dublin Airport.