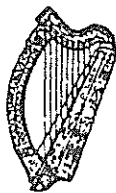


# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

DECEMBER 1977

### The Weather in December

From 1st to 8th southeasterly or easterly winds dominated and day-time temperatures were about or below normal. However, except on 1st there was no air frost. Near the south coast it was very wet but near the north coast there was less than normal rainfall. Snow fell over high ground in parts of the north and east on 7th. Between 9th and 21st southerly or southeasterly winds brought mild conditions. Between 13th and 26th many areas, especially in the northern half of the country, had mainly dry weather.

Wind directions ranged between southwest and northwest between 21st and 31st. Only 27th and 28th were cold. Some snow showers fell on these days, chiefly in the north and northwest. Otherwise temperatures were normal or above. It was wet on 22nd and 23rd especially in the south but between 28th and 31st amounts of rain were small.

Mean Monthly Rainfall Amounts varied from about 55% of normal near the northwest coast to roughly 130% of normal near the south coast. The south, southeast and the west midlands had above normal rainfall; elsewhere amounts were below normal.

Mean Monthly Air Temperatures ranged from 0.7°C to 2.1°C above normal, being about 1.5°C above normal in most areas. The mildness was due mainly to the night-time temperatures which were considerably higher than normal. On 1st air temperatures of between -5°C and -7°C were recorded but otherwise air frosts were infrequent and slight. Ground frost affected many areas on 1st, 9th, 19th and in the period 27th to 29th.

Soil temperatures at 10cm were below normal at the beginning of the month. Between 11th and 26th they were more than 2°C above normal and caused a resumption of grass growth. At the end of the month values were still more than 1°C above normal.

Mean Daily Duration of Sunshine varied from 0.4 hours at Claremorris to 1.2 hours at Dublin Airport. Except at Malin Head (101%) it was well below normal. Only near northern, northwestern and eastern coasts did it exceed 60% of normal and at Claremorris was as low as 32% of normal.

Strong Winds were recorded between 2nd and 4th, on 9th, 23rd, 24th and 27th. The general range of gusts was from 40 to 60 knots but a few gusts of between 60 and 70 knots occurred on 23rd.

Summary. December was mild and very dull. Rainfall amounts ranged from well below normal in the northwest to well above normal in southern coastal counties.

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.

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

DECEMBER, 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 Abr. 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	°C	°C	°C	°C	Hr	%	Kt					
Carlow (Oak Park) Co. Carlow	1-10	55.4	-	9	9	6.1	-	-1.0	01	1	18	0	-4.0	01	3	-	-	0.16	-	9	-
	11-20	10.3	-	3	3	7.6	-	3.0	15	0	32	0	-1.0	15	1	-	-	1.04	-	5	-
	21-end	43.7	-	8	5	7.0	-	1.2	20	0	30	1	-1.2	28	2	-	-	1.66	-	10	-
	Month	109.4	-	20	17	6.9	-	-1.0	01	1	80	1	-4.0	01	6	-	-	0.98	-	8	-
Shannon Airport Co. Clare	1-10	24.5	-	9	8	7.4	-	-1.5	01	1	31	0	-6.0	01	1	6.5	-	0.63	-	12	4
	11-20	21.1	-	3	3	8.6	-	5.2	11	0	42	0	2.5	11	0	8.0	-	0.41	-	7	0
	21-end	25.8	-	8	4	8.1	-	2.0	27	0	41	1	-1.1	28	2	7.2	-	1.14	-	11	3
	Month	71.4	67	20	15	8.0	+1.9	-1.5	01	1	114	1	-6.0	01	3	7.2	+1.5	0.74	52	10	7
Fermoy (Moore Park) Co. Cork	1-10	85.2	-	10	10	7.4	-	-2.4	01	1	32	1	-5.5	01	5	-	-	0.04	-	9	-
	11-20	16.9	-	3	2	8.1	-	2.6	15	0	38	0	-3.9	15	1	-	-	0.40	-	5	-
	21-end	57.2	-	8	5	7.5	-	0.7	25	0	35	2	-4.8	28	6	-	-	1.35	-	9	-
	Month	159.3	-	21	17	7.7	-	-2.4	01	1	105	3	-5.5	01	12	-	-	0.62	-	8	-
Mallow Co. Cork	1-10	102.8	-	10	10	7.4	-	-1.5	01	1	31	0	-4.0	01	4	-	-	0.35	-	-	-
	11-20	20.4	-	3	2	7.6	-	2.1	15	0	33	0	-1.1	15	4	-	-	0.44	-	-	-
	21-end	63.3	-	9	7	7.3	-	0.7	29	0	35	1	-6.4	28	5	-	-	0.99	-	-	-
	Month	186.5	163	22	19	7.4	-	-1.5	01	1	99	1	-6.4	28	13	-	-	0.60	-	-	-
Roche's Point Co. Cork	1-10	67.4	-	10	10	8.4	-	2.6	01	0	39	0	-1.0	01	1	7.5	-	0.36	-	17	8
	11-20	14.6	-	3	2	9.1	-	6.5	19	0	48	0	-0.5	19	1	8.4	-	0.64	-	10	1
	21-end	49.3	-	8	6	8.2	-	2.7	28	0	42	1	-0.1	28	1	7.5	-	1.58	-	17	8
	Month	131.3	130	21	18	8.5	+1.2	2.6	01	0	129	1	-1.0	01	3	7.8	+1.1	0.88	53	15	17
Glencolumbkille Co. Donegal	1-10	35.4	-	8	7	5.6	-	-1.0	01	1	14	0	-7.5	01	5	-	-	0.13	-	14	-
	11-20	16.6	-	5	4	7.8	-	2.5	18	0	34	0	-3.6	18	2	-	-	0.27	-	7	-
	21-end	51.3	-	11	9	7.6	-	2.8	28	0	35	0	-2.0	27	3	-	-	0.40	-	11	-
	Month	103.3	-	24	20	7.0	-	-1.0	01	1	83	0	-7.5	01	10	-	-	0.27	-	11	-
Glenties Co. Donegal	1-10	33.0	-	7	6	3.7	-	-6.5	01	4	6	0	-9.0	01	4	-	-	0.21	-	-	-
	11-20	14.7	-	7	4	6.9	-	-0.2	19	1	20	0	-4.0	19	5	-	-	0.43	-	-	-
	21-end	62.5	-	11	10	6.7	-	2.0	27	0	26	0	-1.5	27	3	-	-	0.52	-	-	-
	Month	110.2	62	25	20	5.6	-	-6.5	01	5	52	0	-9.0	01	12	-	-	0.39	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

DECEMBER, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days		AIR					GROUND			SOIL (10cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
				No. of Wet Days	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	Hr	%	Kt				
Malin Head Co. Donegal	1-10	13.6	-	5	3	6.0	-	-2.3	01	1	18	0	-4.1	01	2	4.2	-	1.07	-	22	8
	11-20	4.7	-	5	2	8.0	-	3.1	18	0	36	1	0.9	19	0	6.8	-	1.33	-	11	2
	21-end	46.0	-	10	10	7.2	-	3.3	27	0	31	0	2.1	28	0	5.8	-	0.64	-	19	8
	Month	64.3	54	20	15	7.1	+0.7	-2.3	01	1	85	1	-4.1	01	2	5.6	+0.1	1.00	101	17	18
Dublin Airport Co. Dublin	1-10	37.7	-	8	4	6.5	-	1.9	01	0	22	0	-7.4	01	2	5.4	-	0.32	-	15	4
	11-20	3.5	-	4	2	8.3	-	4.3	19	0	40	0	-2.3	19	1	7.1	-	1.74	-	8	0
	21-end	23.9	-	8	4	7.4	-	1.8	28	0	35	2	-3.7	28	3	6.2	-	1.41	-	13	3
	Month	65.1	86	20	10	7.4	+1.6	1.8	28	0	97	2	-7.4	01	6	6.2	+1.6	1.16	70	12	7
Kinsealy Co. Dublin	1-10	48.7	-	7	6	6.2	-	-0.7	01	2	19	0	-3.5	01	2	-	-	0.35	-	13	-
	11-20	4.0	-	3	1	7.7	-	0.6	19	0	33	0	-2.5	19	2	-	-	1.94	-	6	-
	21-end	22.3	-	8	4	7.1	-	1.0	29	0	31	1	-2.1	29	3	-	-	1.76	-	10	-
	Month	75.0	-	18	11	7.0	-	-0.7	01	2	83	1	-3.5	01	7	-	-	1.36	-	10	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	42.7	-	NA	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	10	-	-
	11-20	4.1	-	2	2	7.3	-	-0.2	20	1	30	0	-0.8	16	2	-	-	1.55	-	4	-
	21-end	30.9	-	NA	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	9	-	-
	Month	77.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	-
Galway (Univ. Coll.) Co. Galway	1-10	32.5	-	9	7	6.2	-	-1.8	01	2	21	0	-9.0	01	2	-	-	0.63	-	-	-
	11-20	17.7	-	6	3	8.5	-	4.6	19	0	41	1	-2.8	19	1	-	-	0.36	-	NA	-
	21-end	39.4	-	9	7	8.1	-	2.3	27	0	42	0	-0.8	28	2	-	-	1.10	-	-	-
	Month	89.6	-	24	17	7.6	-	-1.8	01	2	104	1	-9.0	01	5	-	-	0.71	-	-	-
Killarney (Nuckross Hse) Co. Kerry	1-10	118.5	-	10	10	7.6	-	-1.0	01	1	34	0	-7.0	01	3	-	-	0.12	-	-	-
	11-20	14.3	-	3	2	8.5	-	3.0	19	0	41	1	-2.1	19	3	-	-	0.44	-	-	-
	21-end	85.7	-	9	7	8.3	-	1.0	28	0	44	2	-3.6	28	3	-	-	0.21	-	-	-
	Month	218.5	-	22	19	8.2	-	-1.0	01	1	119	3	-7.0	01	9	-	-	0.25	-	-	-
Oahiroiveen (Valentia Obsy.) Co. Kerry	1-10	68.7	-	9	8	8.7	-	-0.6	01	1	44	2	-3.6	01	1	7.5	-	0.16	-	13	7
	11-20	15.2	-	4	2	8.9	-	2.0	18	0	45	2	-1.4	18	2	8.2	-	0.70	-	10	3
	21-end	68.9	-	9	7	8.6	-	2.3	27	0	46	2	0.8	28	0	7.9	-	0.75	-	14	7
	Month	152.8	91	22	17	8.7	+0.9	-0.6	01	1	135	6	-3.6	01	3	7.8	+1.0	0.54	41	12	17

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

DECEMBER, 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	Hr	%	Kt					
Tralee (Caherweesheen) Co. Kerry	1-10	73.3	-	10	9	7.0	-	-1.4	01	1	29	0	-4.3	01	2	-	-	-	-	
	11-20	18.7	-	4	2	8.4	-	2.2	19	0	40	1	-2.9	19	2	-	-	-	-	
	21-end	58.5	-	10	7	7.9	-	-0.4	27	1	41	2	-3.4	28	3	-	-	-	-	
	Month	150.5	-	24	18	7.7	-	-1.4	01	2	110	3	-4.3	01	7	-	-	-	-	
Lullymore Co. Kildare	1-10	33.7	-	9	7	5.7	-	-1.9	01	1	16	0	-6.0	08	5	-	-	0.52	11	
	11-20	7.5	-	4	3	7.3	-	1.8	19	0	29	0	-6.1	20	4	-	-	0.47	6	
	21-end	24.7	-	10	4	6.5	-	0.1	28	0	26	1	-5.1	28	4	-	-	1.55	10	
	Month	65.9	-	23	14	6.5	-	-1.9	01	1	71	1	-6.1	20	13	-	-	0.87	9	
Kilkenny Co. Kilkenny	1-10	60.4	-	9	8	7.0	-	-0.9	01	1	27	0	-5.5	01	3	5.6	-	0.23	7	2
	11-20	11.8	-	3	2	7.9	-	-0.1	15	1	35	0	-3.6	15	2	7.0	-	0.71	4	0
	21-end	35.3	-	8	5	7.3	-	1.0	28	0	34	2	-1.6	25	4	6.2	-	1.44	9	4
	Month	107.5	114	20	15	7.4	+2.1	-0.9	01	2	96	2	-5.5	01	9	6.2	+1.6	0.81	53	7
Mooncoin (Silverspring) Co. Kilkenny	1-10	105.7	-	10	9	7.4	-	-0.2	01	1	30	0	-5.5	01	3	-	-	0.30	-	-
	11-20	11.4	-	5	2	7.5	-	-0.3	16	2	31	0	-5.1	15	4	-	-	0.33	-	-
	21-end	58.3	-	5	3	7.5	-	1.1	28	0	35	1	-2.1	29	5	-	-	1.71	-	-
	Month	175.4	-	20	14	7.5	-	-0.2	16	3	96	1	-5.5	01	12	-	-	0.81	-	-
Ballinamore Co. Leitrim	1-10	58.5	-	8	7	4.8	-	-4.4	01	2	10	0	-10.5	01	5	-	-	0.31	-	6
	11-20	16.7	-	7	5	7.3	-	3.4	11	0	29	0	-2.5	11	3	-	-	0.14	-	4
	21-end	43.6	-	10	9	6.5	-	1.1	27	0	25	0	-4.0	29	7	-	-	0.77	-	8
	Month	118.8	-	25	21	6.2	-	-4.4	01	2	64	0	-10.5	01	15	-	-	0.42	-	6
Ardee (Beharnamoe) Co. Louth	1-10	60.2	-	10	8	5.5	-	-5.7	01	2	16	0	-8.2	01	3	-	-	-	-	-
	11-20	3.3	-	3	2	7.4	-	1.5	16	0	30	0	-2.1	20	3	-	-	-	-	-
	21-end	23.4	-	8	4	6.7	-	0.9	27	0	29	0	-2.1	29	5	-	-	-	-	-
	Month	86.9	-	21	14	6.6	-	-5.7	01	2	74	0	-8.2	01	11	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	35.3	-	8	6	5.1	-	-5.6	02	2	17	0	-9.1	01	4	-	-	0.44	-	11
	11-20	16.3	-	6	6	8.0	-	2.8	20	0	37	0	0.6	11	0	-	-	0.18	-	6
	21-end	49.1	-	10	7	7.5	-	2.7	27	0	35	0	-1.7	27	1	-	-	1.01	-	8
	Month	100.7	-	24	19	6.9	-	-5.6	02	2	89	0	-9.1	01	5	-	-	0.56	-	25

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

DECEMBER, 1977

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount mm	Percentage of Average %	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10cm)		Mean Daily Hr	Percentage of Average %	Mean Speed Kt	No. of Days with Gale Gusts		
						Mean Daily °C	Difference from Average °C	Lowest Minimum °C	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum °C	Day	No. of Days with Ground Frost					Mean Daily °C	Difference from Average °C
Belmullet Co. Mayo	1-10	9.1	-	4	3	6.6	-	-1.2	01	1	24	0	-4.7	01	2	5.8	-	0.49	-	15	4
	11-20	12.7	-	5	4	8.1	-	1.1	18	0	37	1	-2.3	18	2	7.5	-	0.63	-	10	3
	21-end	48.3	-	10	9	7.8	-	2.3	27	0	38	0	0.7	28	0	6.9	-	0.84	-	15	5
	Month	70.1	50	19	16	7.5	+0.7	-1.2	01	1	99	1	-4.7	01	4	6.7	+0.6	0.66	59	13	12
Claremorris Co. Mayo	1-10	27.2	-	7	6	5.7	-	-3.6	01	1	18	0	-7.4	01	2	4.7	-	0.35	-	14	3
	11-20	12.5	-	7	3	7.9	-	2.5	19	0	35	0	0.5	11	0	7.2	-	0.19	-	7	0
	21-end	45.0	-	10	8	6.7	-	1.2	28	0	28	0	-1.0	28	2	6.0	-	0.67	-	11	4
	Month	84.7	65	24	17	6.8	+1.6	-3.6	01	1	81	0	-7.4	01	4	6.0	+1.5	0.41	32	11	7
Glenaroy Co. Mayo	1-10	23.6	-	6	5	5.8	-	-1.8	01	2	18	0	-4.1	01	2	-	-	0.37	-	-	-
	11-20	28.5	-	5	4	6.7	-	-1.6	19	3	25	0	-4.5	19	3	-	-	0.82	-	NA	-
	21-end	60.0	-	11	10	2.2	-	1.9	28	0	31	0	-0.2	28	1	-	-	0.66	-	-	-
	Month	112.1	-	22	19	6.6	-	-1.8	01	5	74	0	-4.5	19	6	-	-	0.62	-	-	-
Dunsany (Grange) Co. Meath	1-10	38.5	-	9	7	5.4	-	-4.0	01	2	13	0	-10.2	01	2	-	-	0.34	-	-	-
	11-20	4.3	-	3	1	6.9	-	1.2	20	0	25	0	-3.2	19	3	-	-	0.84	-	NA	-
	21-end	23.8	-	9	5	6.4	-	0.5	28	0	25	0	-5.0	28	4	-	-	1.49	-	-	-
	Month	66.6	-	21	13	6.2	-	-4.0	01	2	63	0	-10.2	01	9	-	-	0.91	-	-	-
Clones Co. Monaghan	1-10	39.0	-	8	7	4.8	-	-4.8	01	2	13	0	-6.6	09	2	4.2	-	0.43	-	12	5
	11-20	6.3	-	6	3	7.5	-	3.9	11	0	31	0	-1.0	18	1	7.0	-	0.24	-	6	0
	21-end	24.0	-	10	6	6.6	-	1.5	27	0	26	0	-2.1	28	2	5.9	-	0.79	-	10	6
	Month	69.3	69	24	16	6.3	+1.5	-4.8	01	2	70	0	-6.6	09	5	5.7	+1.5	0.50	43	9	11
Birr Co. Offaly	1-10	38.4	-	8	7	6.4	-	-1.7	01	1	22	0	-6.1	01	1	5.2	-	0.38	-	12	4
	11-20	9.8	-	3	3	8.2	-	4.0	11	0	38	0	0.3	11	0	7.2	-	0.43	-	7	1
	21-end	22.5	-	9	7	7.1	-	0.4	28	0	33	1	-3.2	28	2	6.2	-	1.08	-	10	3
	Month	70.7	88	20	17	7.2	+1.9	-1.7	01	1	93	1	-6.1	01	3	6.2	+1.5	0.65	49	10	8
Thurles Co. Tipperary	1-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-end	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

TABLE I. (Continued)

RAINFALL, TEMPERATURE, HUMIDITY and WIND

DECEMBER, 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	Hr	%	Kt					
Dungarvan (Ballygagin) Co. Waterford	1-10	121.5	-	10	9	8.2	-	2.1	01	0	38	0	-2.6	01	2	-	-	0.57	-	8	-
	11-20	9.5	-	6	3	8.2	-	0.6	15	0	38	0	-2.0	15	2	-	-	0.39	-	4	-
	21-end	62.0	-	6	5	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	6	-
	Month	193.0	-	22	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	6	-
Mullingar Co. Westmeath	1-10	37.5	-	8	5	5.4	-	-2.6	01	1	14	0	-6.6	01	2	4.7	-	0.39	-	12	3
	11-20	6.7	-	3	2	7.2	-	2.2	19	0	28	0	-1.0	11	3	6.8	-	0.25	-	8	0
	21-end	32.0	-	9	6	6.3	-	0.3	27	0	25	0	-2.1	21	5	5.6	-	1.30	-	12	4
	Month	76.2	76	20	13	6.3	+1.6	-2.6	01	1	67	0	-6.6	01	10	5.7	+1.3	0.67	46	11	7
Campile (Ballysop) Co. Wexford	1-10	101.1	-	9	8	7.0	-	2.2	09	0	27	0	-1.5	09	2	-	-	0.31	-	-	-
	11-20	12.4	-	3	2	7.8	-	2.7	19	0	34	0	-1.8	19	2	-	-	0.34	-	-	-
	21-end	61.5	-	7	5	7.2	-	0.9	28	0	33	1	-3.8	28	4	-	-	1.49	-	NA	-
	Month	175.0	-	19	15	7.3	-	0.9	28	0	94	1	-3.8	28	8	-	-	0.73	-	-	-
Clonroche Co. Wexford	1-10	113.5	-	10	8	6.2	-	-0.4	09	1	19	0	-5.9	09	2	-	-	0.27	-	9	-
	11-20	16.0	-	5	3	7.0	-	0.7	15	0	26	0	-5.5	15	3	-	-	0.29	-	5	-
	21-end	79.3	-	9	6	7.0	-	0.6	28	0	30	1	-2.5	28	3	-	-	1.38	-	8	-
	Month	208.8	-	24	17	6.7	-	-0.4	09	1	75	1	-5.9	09	8	-	-	1.89	-	7	-
Johnstown Castle Co. Wexford	1-10	97.7	-	10	9	6.9	-	0.5	04	0	25	0	-2.6	01	1	-	-	0.54	-	13	-
	11-20	18.9	-	3	3	8.1	-	3.9	19	0	37	0	-2.0	19	2	-	-	0.82	-	7	-
	21-end	66.5	-	7	5	7.4	-	1.5	28	0	35	1	-1.2	29	4	-	-	1.65	-	10	-
	Month	183.1	155	20	17	7.5	-	0.5	04	0	97	1	-2.6	01	7	-	-	1.03	-	10	-
Rosslare Co. Wexford	1-10	80.2	-	9	8	8.1	-	4.7	08	0	37	0	1.3	09	0	7.0	-	0.58	-	17	7
	11-20	13.4	-	3	2	9.0	-	4.6	19	0	47	0	-0.3	19	1	8.1	-	1.20	-	10	1
	21-end	43.5	-	6	4	8.1	-	2.6	27	0	41	2	0.1	28	0	6.9	-	1.61	-	14	6
	Month	137.1	138	18	14	8.4	+1.3	2.6	27	0	125	2	-0.3	19	1	7.3	+1.3	1.15	61	14	14

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

TABLE 2.

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE DECEMBER, 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	-	7	-	0	48
	11-20	-	-3	-	0	14
	21-end	-	12	-	0	32
	Month	-	16	-	-	-
Kinsealy* Co. Dublin	1-10	964	7	-	0	42
	11-20	1889	-4	-	0	8
	21-end	2345	1	-	0	21
	Month	5198	4	-	-	-
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	1255	10	-	0	56
	11-20	1659	-4	-	0	22
	21-end	1578	-2	-	0	70
	Month	4492	4	-	-	-
Kilkenny e Co. Kilkenny	1-10	1021	-	-	-	-
	11-20	1392	-	-	-	-
	21-end	2036	-	-	-	-
	Month	4449	-	-	-	-
Ballinamore Co. Leitrim	1-10		14	-	0	45
	11-20		-5	-	0	22
	21-end	NA	13	-	0	31
	Month		22	-	-	-
Glenamoy Co. Mayo	1-10	-	-3	-	0	27
	11-20	-	-2	-	0	31
	21-end	-	-5	-	0	65
	Month	-	10	-	-	-
Birr e Co. Offaly	1-10	1718	-	-	-	-
	11-20	1664	-	-	-	-
	21-end	2234	-	-	-	-
	Month	5616	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	17	-	0	81
	11-20	-	1	-	0	18
	21-end	-	2	-	0	65
	Month	-	20	-	-	-

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