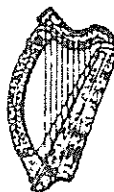


METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

NOVEMBER 1977

The Weather of November

From 1st to 14th winds ranged between west and south in direction and temperatures were above normal. There was no serious frost but the weather was very showery with thunder and hail at times chiefly in the north and west.

Between 15th and 24th, with northwesterly or northerly winds prevailing, it was distinctly colder with occasional air frosts at night especially in the East, South and Midlands. The weather was a mixture of sun and wintry-type showers. Again the North and West bore the brunt of the showers, some of which were of snow but early on 21st as winds became northeasterly for a time, eastern areas had thundery showers of snow and hail with temperatures below freezing.

During the period 25th to 30th we were under the influence of a high pressure area and winds were light and variable in direction. The weather was dry and, as is usual in winter anticyclones, there was a good deal of haze and fog. It was cold with some severe frosts. On 26th, air temperatures were more than 6°C below zero at many stations.

Mean Monthly Rainfall amounts were above normal near the west coast, about normal in the Midlands and were below normal near the west and south coasts. Amounts ranged from over 200% of normal in parts of the extreme northwest to less than 80% of normal in parts of the east and south.

Mean Monthly Air Temperatures ranged from 1.2°C to 1.6°C below normal. Soil temperatures at 10cm were above normal during the first half of the month and indeed they were as much as 2°C above normal between 6th and 10th. A fall of about 6°C during the second half of November ended grass growth and caused mean monthly soil temperatures to be between 0.3°C and 1.6°C below normal.

Amounts of Bright Sunshine were near or above normal in most areas but in coastal districts of west Munster and South Connaught amounts were less than 80% of normal.

Strong Winds occurred between 7th and 15th and also on 3rd and 23rd. The range of gusts was 40 to 65 Kts but gusts of over 70 Kts were recorded near coasts in north Connaught and west Ulster.

Summary. The cold of the second half of November caused monthly mean air temperatures to be more than 1°C below normal. Snow showers affected many areas on 20th and 21st.

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

November, 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
Carlow (Oak Park) Co. Carlow	1-10	25.4	-	9	7	8.6	-	1.6	04	0	42	3	-2.5	04	3	-	-	2.00	-	10	-
	11-20	23.3	-	6	5	5.2	-	-1.2	18	1	14	1	-5.0	18	5	-	-	2.65	-	7	-
	21-end	5.3	-	4	2	1.6	-	-5.6	26	8	2	0	-9.2	29	9	-	-	2.74	-	4	-
	Month	54.0	-	19	14	5.1	-	-5.6	26	9	58	4	-9.2	29	17	-	-	2.46	-	7	-
Shannon Airport Co. Clare	1-10	64.4	-	10	10	9.7	-	4.3	04	0	53	5	-0.5	04	1	9.6	-	1.84	-	12	5
	11-20	67.4	-	10	8	6.2	-	-0.4	20	1	19	0	-4.5	17	4	7.1	-	1.06	-	16	7
	21-end	10.2	-	1	1	3.3	-	-3.0	26	5	4	0	-6.0	25	9	4.3	-	1.92	-	6	1
	Month	142.0	153	21	19	6.4	-1.2	-3.0	26	6	76	5	-6.0	25	14	7.0	-0.3	1.61	79	11	13
Fermoy (Moore Park) Co. Cork	1-10	46.9	-	10	9	9.4	-	-1.0	04	1	51	7	-2.4	06	4	-	-	2.17	-	8	-
	11-20	43.5	-	7	6	5.7	-	-0.5	18	2	18	0	-4.0	18	5	-	-	1.43	-	11	-
	21-end	3.7	-	1	1	3.0	-	-5.7	26	6	4	0	-9.3	26	9	-	-	1.74	-	5	-
	Month	94.1	-	18	16	6.1	-	-5.7	26	9	73	7	-9.3	26	18	-	-	1.78	-	8	-
Mallow Co. Cork	1-10	52.3	-	10	9	9.0	-	0.5	04	0	47	5	-5.0	04	5	-	-	2.14	-	-	-
	11-20	55.9	-	9	7	6.1	-	-1.0	18	1	21	0	-11.4	18	6	-	-	1.58	-	-	-
	21-end	5.4	-	2	1	2.4	-	-5.0	26	7	3	0	-9.3	25	9	-	-	2.07	-	-	-
	Month	113.6	107	21	17	5.9	-	-5.0	26	8	71	5	-11.4	18	20	-	-	1.93	-	-	-
Roche's Point Co. Cork	1-10	53.0	-	9	8	10.3	-	4.9	04	0	59	6	0.8	04	0	9.8	-	1.78	-	18	8
	11-20	18.8	-	7	4	6.8	-	0.7	20	0	24	0	-0.6	18	1	7.0	-	2.32	-	21	9
	21-end	0.4	-	1	0	5.2	-	-0.2	21	1	11	0	-3.3	26	4	4.8	-	2.50	-	12	4
	Month	72.2	79	17	12	7.4	-1.4	-0.2	21	1	94	6	-3.3	26	5	7.2	-1.0	2.20	98	17	21
Glencolumbkille Co. Donegal	1-10	86.5	-	10	10	8.6	-	3.2	04	0	42	2	-2.0	04	1	-	-	1.50	-	9	-
	11-20	73.5	-	10	10	5.9	-	0.2	15	0	16	0	-4.7	17	7	-	-	0.93	-	15	-
	21-end	15.2	-	4	4	4.1	-	-1.5	21	3	7	0	-7.9	28	9	-	-	2.63	-	8	-
	Month	175.2	-	24	24	6.0	-	-1.5	21	3	65	2	-7.9	28	17	-	-	1.69	-	11	-
Glenties Co. Donegal	1-10	93.1	-	10	10	7.7	-	3.0	02	0	34	1	-1.2	02	3	-	-	2.11	-	-	-
	11-20	69.1	-	10	10	4.9	-	-1.0	17	1	11	0	-3.5	19	6	-	-	0.70	-	-	-
	21-end	17.5	-	4	4	2.1	-	-7.3	30	8	3	0	-10.3	30	9	-	-	3.07	-	-	-
	Month	179.7	116	24	24	4.9	-	-7.3	30	9	48	1	-10.3	30	18	-	-	1.96	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

November, 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 4.0°C	Degree Days Above 10.0°C	Lowest	Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
Malin Head Co. Donegal	1-10	82.9	-	10	10	8.9	-	4.6	04	0	45	3	1.5	04	0	7.8	-	2.56	-	19	10	
	11-20	60.7	-	10	10	6.3	-	0.6	20	0	20	0	-1.0	17	1	5.7	-	0.58	-	25	8	
	21-end	14.3	-	4	3	4.4	-	-2.5	30	4	9	0	-4.6	30	5	3.3	-	3.12	-	16	4	
	Month	157.9	150	24	23	6.5	-1.4	-2.5	30	4	74	3	-4.6	30	6	5.6	-1.6	2.09	123	20	22	
Dublin Airport Co. Dublin	1-10	18.9	-	9	6	9.4	-	3.2	04	0	49	7	0.2	04	0	8.9	-	1.98	-	14	5	
	11-20	31.0	-	8	7	4.8	-	-1.1	20	3	11	0	-4.8	18	5	6.2	-	2.65	-	17	6	
	21-end	3.9	-	3	1	3.3	-	-1.6	21	4	2	0	-8.4	29	10	3.3	-	2.50	-	9	2	
	Month	53.8	79	20	14	5.8	-1.6	-1.6	21	7	62	7	-8.4	29	15	6.1	-0.5	2.38	109	13	13	
Kinsealy Co. Dublin	1-10	20.6	-	9	7	9.4	-	2.7	04	0	50	4	0.5	04	0	-	-	2.20	-	10	-	
	11-20	25.5	-	8	6	5.1	-	-0.5	17	2	13	0	-2.1	18	5	-	-	2.84	-	14	-	
	21-end	3.7	-	2	1	3.1	-	-3.0	30	6	2	0	-6.2	30	9	-	-	2.62	-	7	-	
	Month	49.8	-	19	14	5.9	-	-3.0	30	8	65	4	-6.2	30	14	-	-	2.55	-	10	-	
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	23.8	-	9	6	9.0	-	2.3	04	0	46	4	0.6	04	0	-	-	1.89	-	9	-	
	11-20	21.5	-	8	8	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	10	-	
	21-end	6.8	-	4	3	1.8	-	-5.9	30	8	2	0	-9.2	29	9	-	-	3.05	-	4	-	
	Month	52.1	-	21	17	-	-	-	-	-	-	-	-	-	-	-	-	-	-	8	-	
Galway (Univ. Coll.) Co. Galway	1-10	144.7	-	10	10	9.2	-	4.0	04	0	48	3	-2.5	01	4	-	-	1.74	-	-	-	
	11-20	44.4	-	10	9	5.9	-	0.5	17	0	18	0	-6.5	17	5	-	-	1.77	-	NA	-	
	21-end	6.6	-	2	1	3.2	-	-3.5	26	5	6	0	-10.2	28	9	-	-	1.95	-	-	-	
	Month	195.7	-	22	20	6.1	-	-3.5	26	5	72	3	-10.2	28	18	-	-	1.82	-	-	-	
Killarney (Nuckross Hse.) Co. Kerry	1-10	125.5	-	10	10	10.2	-	5.8	04	0	58	7	-3.0	08	2	-	-	1.40	-	-	-	
	11-20	71.1	-	8	7	6.9	-	-0.7	18	1	27	3	-9.6	18	6	-	-	0.84	-	-	-	
	21-end	10.6	-	5	1	4.1	-	-3.2	25	3	6	0	-10.8	21	9	-	-	2.36	-	-	-	
	Month	207.2	-	23	18	7.0	-	-3.2	25	4	91	10	-10.8	21	17	-	-	1.53	-	-	-	
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	93.5	-	10	10	10.4	-	7.1	01	0	54	5	4.5	01	0	9.9	-	1.12	-	16	9	
	11-20	36.4	-	9	8	7.4	-	0.2	20	0	31	0	-0.4	18	1	7.7	-	0.81	-	18	8	
	21-end	9.8	-	3	3	5.4	-	-1.9	25	1	13	0	-4.8	25	4	4.9	-	1.75	-	10	2	
	Month	139.7	92	22	21	7.7	-1.4	-1.9	25	1	98	5	-4.8	25	5	7.5	-0.7	1.23	63	15	19	

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TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

November, 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
Trillick (Caherweesheen) Co. Kerry	1-10	121.7	-	10	10	9.8	-	3.8	04	0	54	7	-0.2	04	1	-	-	-	-	-
	11-20	65.3	-	9	7	6.5	-	-3.5	18	2	25	1	-5.8	18	3	-	-	NA	-	-
	21-end	7.8	-	3	2	3.8	-	-3.4	25	6	6	0	-7.1	21	7	-	-	-	-	-
	Month	194.8	-	22	19	6.7	-	-3.5	18	8	85	8	-7.1	21	11	-	-	-	-	-
Lullymore Co. Kildare	1-10	38.6	-	10	8	8.2	-	0.9	04	0	38	2	-1.5	04	1	-	-	1.65	-	10
	11-20	26.6	-	8	6	4.3	-	-1.5	18	4	9	0	-6.3	19	7	-	-	1.76	-	14
	21-end	4.1	-	4	1	1.4	-	-6.5	26	8	1	0	-11.7	29	10	-	-	2.93	-	6
	Month	69.3	-	22	15	4.6	-	-6.5	26	12	48	2	-11.7	29	18	-	-	2.11	-	10
Kilkenny Co. Kilkenny	1-10	37.9	-	10	8	8.7	-	1.0	04	0	43	6	-3.5	04	5	8.4	-	1.79	-	8
	11-20	27.3	-	7	4	5.5	-	-1.6	18	2	16	0	-4.4	18	5	5.4	-	2.64	-	11
	21-end	3.3	-	2	1	2.4	-	-5.8	26	6	2	0	-9.9	26	9	2.0	-	3.67	-	4
	Month	68.5	80	19	13	5.5	-1.4	-5.8	26	8	61	6	-9.9	26	19	5.3	-1.2	2.70	128	8
Mooncoin (Silverspring) Co. Kilkenny	1-10	42.5	-	10	7	8.9	-	-1.4	04	1	45	5	-6.8	04	6	-	-	2.06	-	-
	11-20	19.5	-	9	5	5.8	-	-1.3	19	2	19	2	-7.5	18	5	-	-	2.75	-	-
	21-end	0.9	-	1	0	2.7	-	-6.4	26	8	3	0	-11.0	26	10	-	-	2.99	-	-
	Month	62.9	-	20	12	5.8	-	-6.4	26	11	67	7	-11.0	26	21	-	-	2.60	-	-
Ballinamore Co. Leitrim	1-10	78.5	-	9	8	7.4	-	1.4	04	0	30	1	-3.7	08	6	-	-	1.95	-	8
	11-20	70.8	-	9	9	4.7	-	-0.5	17	1	10	0	-6.5	17	8	-	-	1.80	-	11
	21-end	18.1	-	4	2	2.3	-	-6.1	27	7	3	0	-11.5	26	10	-	-	3.28	-	5
	Month	167.4	-	22	19	4.8	-	-6.1	27	8	43	1	-11.5	26	24	-	-	2.34	-	8
Ardee (Beharnamoe) Co. Louth	1-10	37.5	-	10	8	8.5	-	1.6	04	0	42	3	-5.3	04	4	-	-	-	-	-
	11-20	30.8	-	7	6	5.1	-	-2.0	17	2	15	2	-7.8	17	7	-	-	-	-	-
	21-end	3.0	-	2	1	1.6	-	-6.5	26	9	1	0	-8.9	21	10	-	-	-	-	-
	Month	71.3	-	19	15	5.1	-	-6.5	26	11	58	5	-8.9	21	21	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	127.9	-	10	10	8.3	-	3.6	02	0	39	1	-0.7	02	2	-	-	1.46	-	9
	11-20	70.0	-	10	8	6.3	-	0.5	20	0	21	0	-2.7	17	4	-	-	1.68	-	10
	21-end	15.4	-	4	3	2.2	-	-6.7	27	7	7	0	-9.2	27	9	-	-	1.01	-	4
	Month	213.3	-	24	21	5.6	-	-6.7	27	7	67	1	-9.2	27	15	-	-	1.38	-	8

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TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

November, 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 a Co. Mayo	1-10	67.0	-	10	10	9.3	-	5.1	04	0	50	3	2.0	04	0	8.9	-	1.69	-	20	9
	11-20	48.7	-	10	8	6.5	-	1.1	20	0	21	0	-1.5	17	2	6.6	-	1.16	-	21	9
	21-end	8.4	-	3	2	4.6	-	-1.4	26	4	9	0	-6.5	26	7	4.4	-	2.71	-	11	3
	Month	124.1	99	23	20	6.8	-1.5	-1.4	26	4	80	3	-6.5	26	9	6.6	-1.1	1.85	97	17	21
Claremorris Co. Mayo	1-10	120.1	-	10	10	8.0	-	2.6	04	0	37	3	-0.5	02	1	8.1	-	1.02	-	13	5
	11-20	54.2	-	10	8	5.1	-	-0.9	20	2	13	0	-3.2	17	4	5.4	-	1.05	-	15	4
	21-end	8.8	-	3	3	2.1	-	-4.2	29	7	2	0	-8.7	29	9	2.4	-	1.88	-	7	2
	Month	183.1	166	23	21	5.1	-1.5	-4.2	29	9	52	3	-8.7	29	14	5.3	-1.0	1.32	67	12	11
Glenamoy Co. Mayo	1-10	106.5	-	10	10	8.2	-	2.8	02	0	38	1	0.4	02	0	-	-	1.77	-	NA	-
	11-20	71.5	-	10	9	5.8	-	0.5	20	0	16	0	-1.6	17	2	-	-	1.19	-	NA	-
	21-end	19.3	-	4	3	3.3	-	-1.6	30	6	6	0	-4.3	27	8	-	-	2.52	-	NA	-
	Month	197.3	-	24	22	5.7	-	-1.6	30	6	60	1	-4.3	27	10	-	-	1.83	-	NA	-
Dunahany (Grange) Co. Meath	1-10	34.1	-	10	10	8.0	-	1.2	04	0	36	2	-1.5	04	1	-	-	1.81	-	NA	-
	11-20	22.5	-	8	7	4.0	-	-2.3	18	4	9	0	-9.3	18	6	-	-	2.29	-	NA	-
	21-end	4.8	-	2	2	1.6	-	-7.4	26	8	1	0	-12.0	26	10	-	-	2.18	-	NA	-
	Month	61.4	81	20	19	4.5	-	-7.4	26	12	46	2	-12.0	26	17	-	-	2.09	-	NA	-
Clones Co. Monaghan	1-10	53.5	-	10	9	7.9	-	1.5	04	0	38	4	-0.8	04	1	8.1	-	1.64	-	11	2
	11-20	49.3	-	7	7	4.3	-	-2.1	20	2	8	0	-4.1	17	6	5.5	-	1.41	-	13	6
	21-end	9.7	-	4	1	1.9	-	-5.6	26	6	2	0	-9.4	29	8	2.5	-	3.46	-	7	3
	Month	112.5	135	21	17	4.7	-1.6	-5.6	26	8	48	4	-9.4	29	15	5.4	-0.7	2.17	121	10	11
Birr Co. Offaly	1-10	43.5	-	10	9	9.0	-	2.4	04	0	46	6	-0.4	04	1	8.5	-	1.71	-	11	6
	11-20	30.4	-	7	5	4.9	-	-3.0	18	2	13	0	-7.1	18	5	5.4	-	1.71	-	12	6
	21-end	3.0	-	1	1	2.3	-	-6.8	26	6	2	0	-8.4	26	8	2.0	-	2.52	-	6	1
	Month	76.9	99	18	15	5.4	-1.4	-6.8	26	8	61	6	-8.4	26	14	5.3	-1.1	1.98	98	10	13
Thurles Co. Tipperary	1-10	46.4	-	10	9	8.8	-	1.9	04	0	45	4	-2.5	04	2	-	-	1.88	-	-	-
	11-20	29.7	-	NA	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	-	-
	21-end	4.1	-	NA	NA	NA	-	NA	NA	NA	NA	NA	NA	NA	NA	-	-	NA	-	-	-
	Month	80.2	84	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE and WIND

November, 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	
																					°C
Dungarvan (Ballygagin) Co. Waterford	1-10 11-20 21-end Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Mullingar Co. Westmeath	1-10 11-20 21-end Month	54.1 45.2 8.4 107.7	- - - 127	10 8 3 21	9 8 2 19	8.0 4.4 1.9 4.8	- - - -1.5	1.0 -2.3 -6.0 -6.0	04 20 26 26	0 3 7 10	37 9 2 48	4 0 0 4	-1.0 -3.7 -9.1 -9.1	04 17 29 29	1 5 9 15	8.0 5.1 2.1 5.0	- - - -1.1	1.59 1.51 3.21 2.10	104	12 14 6 11	4 7 1 12
Cumple (Ballysop) Co. Wexford	1-10 11-20 21-end Month	55.8 17.4 0.8 74.0	- - - -	9 7 1 17	9 7 0 16	9.0 5.6 3.3 6.0	- - - -	1.1 0.0 -4.8 -4.8	04 18 26 26	0 0 4 4	46 17 1 64	3 2 0 5	-4.5 -4.1 -8.1 -8.1	04 19 26 26	3 5 9 17	- - - -	- - - -	1.72 2.76 NA -	-	NA	NA
Clonroche Co. Wexford	1-10 11-20 21-end Month	66.7 16.8 3.2 86.7	- - - -	10 7 2 19	9 3 2 14	8.5 5.1 3.3 5.6	- - - -	0.8 -0.4 -2.1 -2.1	04 16 26 26	0 2 6 8	41 14 1 56	3 1 0 4	-6.8 -7.0 -9.9 -9.9	06 16 26 26	5 7 10 22	- - - -	- - - -	1.96 2.81 2.56 2.44	-	8 9 5 7	-
Johnstown Castle Co. Wexford	1-10 11-20 21-end Month	77.1 19.4 2.3 98.8	- - - 90	9 5 2 16	8 4 1 13	9.4 5.6 3.8 6.3	- - - -	2.6 -1.5 -1.5 -1.5	04 12 21 12	0 1 2 3	49 16 3 68	4 1 0 5	-1.0 -4.5 -4.9 -4.9	04 19 27 27	2 6 8 16	- - - -	- - - -	1.83 3.25 2.69 2.59	-	12 12 7 10	-
Rosslare Co. Wexford	1-10 11-20 21-end Month	71.4 14.3 5.3 91.0	- - - 97	8 5 2 15	7 3 2 12	10.5 6.5 5.1 7.4	- - - -1.2	3.8 1.0 0.0 0.0	04 20 21 21	0 0 0 0	61 22 9 92	9 1 0 10	1.1 0.1 -1.1 -1.1	04 19 21 21	0 0 3 3	9.7 6.1 3.9 6.6	- - - -1.3	1.63 3.21 2.24 2.36	96	14 16 10 13	9 10 3 22

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

TABLE 2.

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE November, 1977,

STATION	PERIOD	SOLAR RADIATION	P.E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
		Joule/cm ²	mm	mm	mm	mm
Carlow (Oak Park) Co. Carlow	1-10	-	1	-	0	25
	11-20	-	5	-	0	18
	21-end	-	4	-	0	2
	Month	-	10	-	-	-
Kinsealy* Co. Dublin	1-10	4107	7	-	0	25
	11-20	3874	10	-	0	16
	21-end	3202	-7	-	0	10
	Month	11183	10	-	-	-
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	2932	0	-	0	92
	11-20	2424	9	-	0	37
	21-end	2618	-1	-	0	13
	Month	7974	8	-	-	-
Kilkenny e Co. Kilkenny	1-10	3696	-	-	-	-
	11-20	3802	-	-	-	-
	21-end	3332	-	-	-	-
	Month	10830	-	-	-	-
Ballinamore Co. Leitrim	1-10		3	-	0	76
	11-20	NA	-2	-	0	73
	21-end		-2	-	0	20
	Month		-1	-	-	-
Glenamoy Co. Mayo	1-10	-	-5	-	0	112
	11-20	-	6	-	0	65
	21-end	-	-4	-	0	24
	Month	-	-3	-	-	-
Birr e Co. Offaly	1-10	3993	-	-	-	-
	11-20	3648	-	-	-	-
	21-end	3361	-	-	-	-
	Month	11002	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	12	-	0	65
	11-20	-	15	-	0	5
	21-end	-	3	0	0	0
	Month	-	30	-	-	-

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