



## AGROMETEOROLOGICAL BULLETIN

JULY 1976

### The Weather in July

From 1st to 5th of July, the hot spell of late June continued. There were thunderstorms here and there. During 6th and 7th dull weather with periods of thundery rain affected all but parts of the south west. The east and midlands experienced their most lengthy spell of potato blight weather of this growing season. On 8th the Continental influence waned and the Atlantic weather systems dominated for the remainder of the month. From 9th to 19th south or southwest winds prevailed. There were spells of rain, with temperatures about normal. Countries near the south and west coasts had a significant accumulation of blight hours during this period but eastern coastal areas escaped. Between 20th and 31st, a high pressure area centred to the west of Ireland maintained a northwesterly windflow over us. The weather was mostly dry, cloudy and cool. These conditions markedly slowed the spread of potato blight.

Monthly rainfall amounts ranged from 50% to 80% of normal generally. Only in parts of Cork and north Dublin did rainfall exceed normal values. This was due to localised, heavy and damaging spells of rain. At Dublin Airport over half an inch of rain fell in one hour on 9th while Roches Point had a fall of over one inch of rain, in six hours, on 14th. In the Midlands and east soil moisture deficits, at two and a half to three inches, were similar at the beginning and end of the month. Deficits decreased by about one inch in the first three weeks but increased by a like amount during the dry spell in the last ten days. At the end of the month grass growth was visibly slowing. In the west soil moisture deficits rose to about one inch towards the end of the month and so soil moisture status there continued to be satisfactory.

Mean Air Temperatures for the month were about  $1^{\circ}\text{C}$  above normal, due to the very hot spell early in the month. On 1st and 2nd several stations recorded maximum air temperatures between  $29^{\circ}\text{C}$  and  $31^{\circ}\text{C}$ . On 1st Cahirciveen and Malin Head enjoyed their hottest July day this century. The month ended on a cool note with  $2^{\circ}\text{C}$  to  $5^{\circ}\text{C}$  of ground frost in a few sheltered areas on 31st.

Sunshine amounts were only 70% to 90% of normal with the mean daily duration ranging from 3.3 to 5.3 hours.

The windiest day of the month was 13th when many areas experienced gusts of between 40 and 50 m.p.h.

Summary. July was dull with above normal temperatures and below normal rainfall.

TABLE 1.

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July 1976

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	32.5	-	5	3	19.3	-	8.5	10	0	150	94	3.3	10	0	-	-	5.93	-	-	-
	11-20	29.6	-	8	5	15.9	-	7.2	16	0	116	60	2.0	16	0	-	-	3.60	-	-	-
	21-end	0.3	-	1	0	15.0	-	7.0	31	0	116	55	0.8	31	0	-	-	2.70	-	NA	-
	Month	62.4	-	14	8	16.7	-	7.0	31	0	382	209	0.8	31	0	-	-	4.03	-	-	-
Shannon Airport Co. Clare	1-10	21.1	-	5	4	19.5	-	12.2	10	0	151	95	9.1	10	0	20.9	-	4.96	-	6	1
	11-20	37.4	-	7	5	16.3	-	11.1	16	0	119	63	7.6	16	0	17.7	-	3.67	-	10	1
	21-end	1.1	-	4	0	15.0	-	8.1	29	0	117	56	3.2	31	0	17.5	-	2.27	-	6	0
	Month	59.6	71	16	9	16.9	+1.4	8.1	29	0	387	214	3.2	31	0	18.7	+1.3	3.59	77	7	2
Fermoy (Moore Park) Co. Cork	1-10	23.1	-	5	4	17.6	-	9.2	01	0	132	76	5.5	01	0	-	-	5.02	-	4	-
	11-20	34.9	-	7	5	15.4	-	5.0	16	0	110	54	0.8	16	0	-	-	2.86	-	5	-
	21-end	0.5	-	1	0	14.2	-	6.0	31	0	107	46	1.7	31	0	-	-	2.94	-	5	-
	Month	58.5	-	13	9	15.7	-	5.0	16	0	349	176	0.8	16	0	-	-	3.58	-	5	-
Mallow Co. Cork	1-10	38.7	-	5	5	18.2	-	10.2	01	0	138	82	7.7	01	0	-	-	4.85	-	-	-
	11-20	37.7	-	8	6	15.6	-	5.6	16	0	112	56	2.8	16	0	-	-	2.32	-	-	-
	21-end	0.4	-	1	0	14.6	-	6.9	31	0	112	51	0.7	31	0	-	-	2.47	-	-	-
	Month	76.8	98	14	11	16.1	-	5.6	16	0	362	189	0.7	31	0	-	-	3.19	-	-	-
Roches's Point Co. Cork	1-10	24.8	-	5	5	17.9	-	12.7	10	0	135	79	9.5	10	0	19.8	-	5.95	-	9	1
	11-20	59.3	-	8	6	15.2	-	9.5	16	0	108	52	3.7	16	0	17.1	-	4.06	-	11	1
	21-end	0.0	-	0	0	14.7	-	9.5	31	0	113	52	7.6	31	0	17.2	-	3.46	-	9	0
	Month	84.1	118	13	11	15.9	+0.7	9.5	16	0	356	183	3.7	16	0	18.0	+0.9	4.46	79	10	2
Glencolumbkille Co. Donegal	1-10	64.6	-	6	5	19.1	-	10.6	10	0	147	91	-	-	-	-	-	3.97	-	-	-
	11-20	61.3	-	10	7	14.9	-	12.0	17	0	106	50	NA	NA	-	-	-	2.26	-	NA	-
	21-end	20.1	-	11	6	13.6	-	9.9	31	0	102	40	-	-	-	-	-	1.61	-	-	-
	Month	146.0	-	27	18	15.8	-	9.9	31	0	355	181	-	-	-	-	-	2.58	-	-	-
Glenties Co. Donegal	1-10	46.3	-	6	6	18.9	-	8.8	10	0	145	89	5.0	10	0	-	-	4.12	-	-	-
	11-20	45.8	-	8	7	15.0	-	9.6	13	0	106	50	6.0	13	0	-	-	1.93	-	-	-
	21-end	19.3	-	9	6	13.6	-	8.2	31	0	101	40	5.0	31	0	-	-	2.42	-	-	-
	Month	111.4	89	23	19	15.8	-	8.2	31	0	352	179	5.0	10	0	-	-	2.81	-	-	-

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

TABLE 1. (Continued)

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July 1976

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10cm)		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			
Malin Head Co. Donegal	1-10	54.1	-	7	4	17.3	-	10.0	10	0	129	73	8.1	10	0	19.1	-	4.01	-	8	1
	11-20	32.1	-	9	5	15.3	-	10.7	16	0	109	53	7.5	16	0	16.0	-	2.92	-	12	2
	21-end	7.6	-	6	2	13.6	-	9.6	31	0	101	40	8.5	31	0	16.0	-	3.09	-	13	0
	Month	93.8	92	22	11	15.3	+1.3	9.6	31	0	339	166	7.5	16	0	17.0	-	3.35	73	11	3
Dublin Airport Co. Dublin	1-10	52.8	-	6	5	18.5	-	10.1	10	0	141	85	5.6	10	0	21.8	-	6.81	-	5	0
	11-20	29.6	-	6	4	15.7	-	9.7	16	0	113	57	6.6	16	0	18.2	-	3.69	-	9	0
	21-end	0.4	-	1	0	14.5	-	6.4	31	0	111	49	3.6	31	0	17.9	-	3.86	-	7	0
	Month	82.8	119	13	9	16.1	+1.0	6.4	31	0	365	191	3.6	31	0	19.2	+1.9	4.76	92	7	0
Kinsealy Co. Dublin	1-10	46.9	-	5	5	17.8	-	8.3	10	0	134	78	3.4	10	0	-	-	6.82	-	7	-
	11-20	25.4	-	6	3	15.7	-	9.3	16	0	113	57	4.7	16	0	-	-	3.60	-	7	-
	21-end	0.0	-	0	0	14.7	-	6.5	31	0	114	52	4.2	31	0	-	-	NA	-	6	-
	Month	72.3	-	11	8	16.0	-	6.5	31	0	361	187	3.4	10	0	-	-	-	-	7	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	33.6	-	5	5	18.8	-	7.6	10	0	144	88	4.2	10	0	-	-	5.82	-	3	-
	11-20	16.6	-	5	4	15.8	-	9.3	16	0	114	58	6.4	20	0	-	-	3.30	-	6	-
	21-end	0.8	-	1	0	14.2	-	5.9	31	0	108	47	0.9	31	0	-	-	3.37	-	4	-
	Month	51.0	-	11	9	16.2	-	5.9	31	0	366	193	0.9	31	0	-	-	4.14	-	4	-
Galway (Univ. Coll.) Co. Galway	1-10		-				-										-				
	11-20		-				-										-				
	21-end		-				-										-				
	Month		-				-										-				
Kilbarney (Muckross Park) Co. Kerry	1-10	50.0	-	3	3	18.1	-	12.5	07	0	123	80	5.8	07	0	-	-	5.33	-	-	-
	11-20	38.8	-	9	8	15.4	-	9.6	16	0	110	54	3.1	16	0	-	-	3.36	-	-	-
	21-end	4.3	-	7	1	14.6	-	8.0	29	0	113	51	3.2	29	0	-	-	2.75	-	-	-
	Month	93.1	-	19	12	16.0	-	8.0	29	0	346	185	3.1	16	0	-	-	3.78	-	-	-
Sahiree (Valentia Quay) Co. Kerry	1-10	33.9	-	6	3	17.9	-	10.2	06	0	135	79	7.2	06	0	20.0	-	5.22	-	7	2
	11-20	38.4	-	9	6	15.0	-	11.0	13	0	106	50	8.0	13	0	16.7	-	2.90	-	10	1
	21-end	1.4	-	5	0	15.0	-	9.1	29	0	117	56	7.1	29	0	18.4	-	4.66	-	7	0
	Month	73.7	69	20	9	16.0	+1.0	9.1	29	0	358	185	7.1	29	0	18.4	+1.2	4.27	91	8	3

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TABLE 1. (Continued)

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July 1976

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		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	34.5	-	4	3	18.5	-	11.5	10	0	142	86	8.2	07	0	-	-	5.05	-	-	-
	11-20	37.4	-	7	5	16.0	-	10.2	16	0	117	61	7.0	16	0	-	-	3.03	-	-	-
	21-end	4.6	-	4	1	14.9	-	7.6	29	0	116	55	4.8	29	0	-	-	NA	-	-	-
	Month	76.5	-	15	9	16.5	-	7.6	29	0	375	202	4.8	29	0	-	-	-	-	-	-
Lullymore Co. Kildare	1-10	20.0	-	6	3	18.5	-	7.5	10	0	141	85	3.5	10	0	-	-	NA	-	6	-
	11-20	16.9	-	7	5	15.5	-	7.4	16	0	111	55	2.1	16	0	-	-	3.35	-	9	-
	21-end	0.6	-	1	0	14.0	-	2.3	31	0	110	49	-4.5	31	2	-	-	2.78	-	7	-
	Month	37.5	-	14	8	15.9	-	2.3	31	0	362	189	-4.5	31	2	-	-	-	-	7	-
Kilkenny Co. Kilkenny	1-10	19.0	-	4	3	18.8	-	7.8	10	0	144	88	3.5	10	0	22.7	-	4.80	-	4	0
	11-20	24.8	-	8	5	15.7	-	5.8	16	0	113	57	1.3	16	0	17.7	-	3.56	-	6	0
	21-end	0.5	-	2	0	14.5	-	4.8	31	0	112	50	0.4	31	0	17.7	-	2.27	-	4	0
	Month	44.3	62	14	8	16.3	+1.0	4.8	31	0	369	195	0.4	31	0	19.3	+1.3	3.50	71	5	0
Mooncoin (Silverspring) Co. Kilkenny	1-10	22.2	-	6	5	17.0	-	9.9	08	0	137	81	6.1	10	0	-	-	5.45	-	-	-
	11-20	35.6	-	9	7	15.8	-	5.1	16	0	104	58	1.4	16	0	-	-	3.37	-	-	-
	21-end	0.2	-	1	0	14.8	-	6.0	31	0	114	53	2.5	31	0	-	-	2.76	-	-	-
	Month	58.0	-	16	12	15.8	-	5.1	16	0	355	192	1.4	16	0	-	-	3.83	-	-	-
Ballinamore Co. Leitrim	1-10	40.1	-	6	4	19.1	-	7.4	10	0	137	81	3.0	10	0	-	-	5.09	-	4	-
	11-20	23.7	-	5	4	14.9	-	7.5	16	0	104	48	2.3	16	0	-	-	NA	-	6	-
	21-end	0.8	-	2	0	14.3	-	6.3	31	0	109	47	4.6	31	0	-	-	NA	-	5	-
	Month	64.6	-	13	8	16.0	-	6.3	31	0	350	176	2.3	16	0	-	-	-	-	5	-
Ardee (Bohernabreena) Co. Louth	1-10	49.5	-	6	4	17.7	-	7.4	10	0	133	77	5.7	10	0	-	-	-	-	-	-
	11-20	15.2	-	5	3	15.4	-	6.9	16	0	106	50	5.9	16	0	-	-	-	-	-	-
	21-end	0.0	-	0	0	14.3	-	6.1	29	0	110	48	2.2	31	0	-	-	-	-	-	-
	Month	58.7	-	11	7	15.8	-	6.1	29	0	349	175	2.2	31	0	-	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	71.7	-	7	7	18.0	-	9.6	04	0	136	80	6.2	01	0	-	-	5.74	-	4	-
	11-20	30.5	-	8	4	14.9	-	9.6	16	0	105	49	5.4	19	0	-	-	3.13	-	6	-
	21-end	0.6	-	1	0	14.3	-	7.9	29	0	109	47	2.2	29	0	-	-	2.67	-	4	-
	Month	102.8	-	16	11	15.7	-	7.9	29	0	350	176	2.2	29	0	-	-	3.81	-	5	-

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TABLE 1

## RAINFALL, TEMPERATURE, SUNSHINE AND WIND

July 1976

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				
Helmullet Co. Mayo	1-10	37.8	-	7	5	18.1	-	11.4	10	0	142	86	10.0	10	0	20.0	-	5.43	-	9	1
	11-20	18.8	-	7	3	14.8	-	11.1	20	0	105	49	8.8	13	0	16.5	-	3.02	-	13	0
	21-end	3.7	-	6	1	14.0	-	9.3	31	0	106	45	6.6	31	0	17.2	-	2.73	-	10	0
	Month	60.3	69	20	9	15.6	+1.2	9.3	31	0	353	180	6.6	31	0	17.9	+1.4	3.69	77	11	1
Claremorris Co. Mayo	1-10	38.3	-	6	5	18.2	-	10.2	10	0	138	82	7.5	10	0	20.3	-	4.95	-	4	0
	11-20	36.6	-	6	5	14.8	-	9.7	16	0	104	48	6.8	16	0	16.8	-	2.78	-	7	0
	21-end	0.7	-	2	0	14.0	-	8.0	29	0	106	44	3.5	31	0	16.7	-	2.35	-	4	0
	Month	75.6	77	14	10	15.6	+1.2	8.0	29	0	348	174	3.5	31	0	17.9	+1.9	3.33	82	5	0
Glenaroy Co. Mayo	1-10	40.8	-	7	5	18.0	-	10.9	10	0	136	80	9.3	04	0	-	-	5.22	-	NA	-
	11-20	24.8	-	10	6	14.6	-	8.4	11	0	102	46	5.4	11	0	-	-	2.69	-	NA	-
	21-end	6.1	-	9	2	13.8	-	8.1	31	0	104	42	4.6	31	0	-	-	2.35	-	NA	-
	Month	71.7	-	26	13	15.4	-	8.1	31	0	342	168	4.6	31	0	-	-	3.38	-	NA	-
Dunsany (Grange) Co. Meath	1-10	31.9	-	4	4	18.5	-	7.6	10	0	141	85	3.0	10	0	-	-	6.01	-	NA	-
	11-20	21.3	-	7	7	15.0	-	7.0	16	0	107	51	1.9	16	0	-	-	3.16	-	NA	-
	21-end	0.7	-	1	0	13.9	-	3.8	31	0	104	43	-2.5	31	1	-	-	3.38	-	NA	-
	Month	53.9	-	12	11	15.7	-	3.8	31	0	352	179	-2.5	31	1	-	-	4.16	-	NA	-
Clones Co. Monaghan	1-10	38.0	-	6	6	18.6	-	8.3	10	0	142	86	4.9	10	0	20.0	-	4.82	-	5	0
	11-20	14.3	-	5	5	15.0	-	8.1	16	0	106	50	4.5	16	0	16.5	-	2.44	-	9	1
	21-end	1.9	-	3	0	13.8	-	6.7	31	0	104	42	1.3	31	0	16.4	-	3.31	-	7	0
	Month	54.2	59	14	11	15.7	+1.3	6.7	31	0	352	178	1.3	31	0	17.6	+1.1	3.52	90	7	1
Birr Co. Offaly	1-10	29.0	-	6	5	19.1	-	9.2	10	0	147	91	6.0	10	0	22.3	-	5.90	-	4	0
	11-20	23.7	-	7	6	15.7	-	9.1	16	0	113	57	6.1	16	0	17.6	-	3.14	-	7	0
	21-end	1.7	-	1	0	14.6	-	5.8	31	0	112	51	0.5	31	0	17.9	-	2.68	-	4	0
	Month	54.4	64	14	11	16.4	+1.3	5.8	31	0	372	199	0.5	31	0	19.2	+1.9	3.87	85	5	0
Tuarney Co. Tipperary	1-10	24.3	-	4	4	NA	-	NA					8.2	01	0	-	-	5.02	-	-	-
	11-20	25.1	-	8	5	14.8	-	7.1	16	0	105	49	5.6	16	0	-	-	2.81	-	-	-
	21-end	0.8	-	2	0	14.7	-	7.5	31	0	113	52	6.5	22	0	-	-	1.79	-	-	-
	Month	50.2	62	14	9	-	-	-					5.6	16	0	-	-	3.16	-	-	-

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TABLE 1. (Continued)

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July 1976

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		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	Hr	%	Kt						
Dungarvan (Ballygagin) Co. Waterford	1-10 11-20 21-end Month	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -	- - - -		
Mullingar Co. Westmeath	1-10 11-20 21-end Month	27.5 19.6 0.8 47.9	- - - 52	6 7 3 16	4 6 0 10	18.7 15.0 14.2 15.9	- - - +1.1	7.7 7.3 6.5 6.5	10 16 31 31	0 0 0 0	143 107 108 358	87 51 47 185	4.2 4.0 3.6 3.6	10 16 31 31	0 0 0 0	20.3 16.5 16.7 17.8	- - - +1.2	5.41 3.05 3.03 3.80	- - - 85	7 10 8 8	0 1 0 1
Campile (Ballysop) Co. Wexford	1-10 11-20 21-end Month	26.6 38.7 0.0 65.3	- - - -	5 5 0 10	5 5 0 10	18.4 15.8 14.4 16.2	- - - -	11.1 9.6 6.8 6.8	10 16 31 31	0 0 0 0	141 115 110 366	85 59 49 193	7.2 2.5 0.6 0.6	10 16 31 31	0 0 0 0	- - - -	- - - -	5.51 3.72 3.32 4.15	- - - -	NA	- - - -
Clonroche Co. Wexford	1-10 11-20 21-end Month	28.1 47.7 0.1 75.9	- - - -	5 7 0 12	5 6 0 11	18.5 15.4 14.1 15.9	- - - -	9.2 7.5 6.0 6.0	10 16 31 31	0 0 0 0	139 111 107 357	83 55 46 184	2.6 1.6 -2.0 -2.0	10 16 31 31	0 0 1 1	- - - -	- - - -	5.88 3.16 NA -	- - - -	4 5 3 4	- - - -
Johnstown Castle Co. Wexford	1-10 11-20 21-end Month	23.5 40.6 0.0 64.1	- - - 80	5 8 0 13	5 7 0 12	17.8 15.4 14.0 15.7	- - - -	11.0 9.0 7.9 7.9	10 16 31 31	0 0 0 0	134 111 106 351	78 55 44 177	6.5 2.1 3.1 2.1	10 16 29 16	0 0 0 0	- - - -	- - - -	5.48 3.76 4.14 4.45	- - - -	5 7 4 5	- - - -
Rosslare Co. Wexford	1-10 11-20 21-end Month	15.8 24.9 0.0 40.7	- - - 60	4 7 0 11	3 5 0 8	17.3 15.9 14.8 16.0	- - - +0.8	11.8 9.8 10.0 9.8	10 16 31 16	0 0 0 0	129 115 114 358	73 59 52 184	9.0 6.2 6.7 6.2	10 16 29 16	0 0 0 0	21.2 18.4 18.6 19.4	- - - +1.0	6.16 4.97 4.79 5.29	- - - 82	7 10 7 8	1 0 0 1

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

TABLE 2.

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

JULY 1976

STATION	PERIOD	SOLAR RADIATION	P.E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	-	35	-	57	13
	11-20	-	33	-	51	6
	21-end	-	32	24	75	-
	Month	-	100	-	-	-
Kinsealy * Co. Dublin	1-10	17703	35	-	48	31
	11-20	14875	26	-	44	4
	21-end	15411	26	22	66	-
	Month	47989	87	-	-	-
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	16254	34	3	3	-
	11-20	14783	7	-	0	34
	21-end	20025	23	21	21	-
	Month	51062	64	-	-	-
Kilkenny e Co. Kilkenny	1-10	18686	-	-	-	-
	11-20	15130	-	-	-	-
	21-end	14969	-	-	-	-
	Month	48785	-	-	-	-
Ballinamore Co. Leitrim	1-10		31	-	0	9
	11-20	NA	13	-	0	10
	21-end		29	28	28	-
	Month		73	-	-	-
Glenamoy Co. Mayo	1-10	-	5	-	0	16
	11-20	-	18	-	0	7
	21-end	-	24	18	18	-
	Month	-	47	-	-	-
Birr e Co. Offaly	1-10	17858	-	-	-	-
	11-20	14942	-	-	-	-
	21-end	15133	-	-	-	-
	Month	47933	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	41	2	66	-
	11-20	-	30	-	43	23
	21-end	-	30	25	68	-
	Month	-	101	-	-	-

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\*Solar Radiation from Dublin Airport