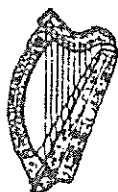


METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JUNE 1980

The Weather of June

The weather was warm and humid in the period from the 1st to the 7th. Spells of rain occurred in all regions on most days and thunderstorms developed on the 4th and 5th, especially in midland and eastern regions. Some 21 mm of rain occurred overnight in Galway on the 1st/2nd and thundery rain was especially heavy in eastern and northeastern regions on the 4th and 5th. Daily temperatures were above normal during this spell.

Changeable conditions set in on the 8th and outbreaks of rain continued to occur in all areas. Western and southwestern regions received the heaviest falls in the period from the 8th to the 12th and all regions had spells of heavy rain between the 12th and 16th.

A strong westerly airflow became established on the 17th which prevailed until the 23rd. Subsequently a northwesterly airflow developed and temperatures remained below normal. Outbreaks of rain continued to occur throughout the rest of the month. Rain was widespread and heavy in western and northern regions on the 25th and in the southwest on the 27th when some 31 mm of rain was recorded at Valentia on the latter date.

Mean Monthly Amounts of Precipitation were above normal in western and northern regions, well above normal in eastern regions, and below normal in the south midlands and some southern regions. Amounts ranged from 189% of normal at Casement Aerodrome to 73% of normal at Kilkenny. Rain days varied from 70% above average in the east to 15% above average in the north and the number of wet days varied similarly. Soil moisture deficits, which were relatively high at the start of the month at all stations, decreased to zero at Valentia and Ballinamore and were well below average at the other stations. The incidence of weather suitable to the spread of potato blight and cereal disease was above normal everywhere except in the east and southeast.

Mean Monthly Air Temperatures were below normal everywhere, ranging from 1.0°C below normal at Valentia to 0.2°C below normal at Malin Head. Soil temperatures (at 10 cm) were more than 1.5°C below normal at most stations, ranging from 2.1°C below normal at Clones to 0.2°C below normal at Malin Head.

Mean Duration of bright sunshine, mostly only some 50% of normal, ranged from 46% of normal at Claremorris to 83% of normal at Malin Head. It was the dullest June at most stations since 1955 and at Cahirciveen since 1880.

Strong Winds with gale gusts occurred on the 3rd and from the 18th to 21st.

Summary. The month was very dull and rather cool and broken with above average rainfall in most regions.

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

June, 1980

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C												BRIGHT SUNSHINE		WIND			
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	MEAN MAX.	MEAN MIN.	AIR				GROUND		SOIL(10 CM)		MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS				
								MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 2.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."					DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE
Carlow (Oak Park) Co. Carlow	1-10	18.4	/	7	6	17.4	10.0	13.7	/	5.8	01	0	93	37	2.5	01	0	/	/	3.13	/	3	/
	11-20	20.5	/	7	6	15.9	9.1	12.5	/	7.4	18	0	81	25	4.0	18	0	/	/	3.17	/	4	/
	21-end	29.2	/	8	7	16.0	9.0	12.5	/	6.0	27	0	81	25	2.2	27	0	/	/	3.65	/	3	/
	Month	68.1	/	22	19	16.4	9.4	12.9	/	5.8	01	0	255	87	2.2	27	0	/	/	3.32	/	3	/
Shannon Airport Co. Clare	1-10	31.1	-	9	7	16.8	10.8	13.8	-	7.7	01	0	95	39	3.0	01	0	14.9	-	2.19	-	5	0
	11-20	10.9	-	8	5	16.5	10.6	13.5	-	9.3	16	0	92	36	6.0	16	0	14.4	-	2.28	-	6	3
	21-end	33.0	-	8	5	16.2	10.3	13.3	-	8.0	27	0	89	33	1.6	27	0	14.7	-	5.06	-	7	0
	Month	75.0	121	25	17	16.5	10.6	13.5	-0.8	7.7	01	0	276	108	1.6	27	0	14.7	-1.8	3.18	53	6	3
Fermoy (Moore Park) Co. Cork	1-10	18.5	-	7	3	16.9	8.7	12.8	/	1.4	01	0	84	30	-3.0	01	2	/	/	2.85	/	3	/
	11-20	13.9	-	7	6	16.8	9.5	13.1	/	7.4	11	0	88	32	3.7	11	0	/	/	2.31	/	4	/
	21-end	26.6	-	7	6	16.4	8.1	12.2	/	5.0	24	0	79	23	0.0	24	0	/	/	4.08	/	3	/
	Month	59.0	98	21	15	16.7	8.7	12.7	/	1.4	01	0	251	85	-3.0	01	2	/	/	3.08	/	3	/
Mallow Co. Cork	1-10	21.9	-	6	3	16.8	9.0	12.9	/	3.2	01	0	85	31	0.2	01	0	/	/	1.88	/	/	/
	11-20	15.6	-	7	4	16.9	9.6	13.2	/	7.0	11	0	89	33	5.4	17	0	/	/	1.98	/	/	/
	21-end	25.7	-	10	5	16.2	8.5	12.3	/	6.6	27	0	80	24	2.2	24	0	/	/	3.68	/	/	/
	Month	63.2	115	23	12	16.6	9.0	12.8	/	3.2	01	0	254	88	0.2	01	0	/	/	2.51	/	/	/
Roche's Point Co. Cork	1-10	19.9	-	5	5	15.5	10.3	12.9	-	6.4	01	0	85	29	0.6	01	0	14.3	-	3.55	-	5	0
	11-20	12.7	-	6	4	15.9	10.7	13.3	-	8.9	20	0	90	34	6.1	20	0	14.5	-	3.56	-	6	3
	21-end	18.8	-	7	3	15.7	9.8	12.7	-	8.1	24	0	84	28	3.2	27	0	14.2	-	4.54	-	6	1
	Month	51.4	95	18	12	15.7	10.3	13.0	-0.9	6.4	01	0	259	91	0.6	01	0	14.3	-1.7	3.88	58	6	4
Glencolumbkille Co. Donegal	1-10	36.8	/	9	7	16.3	10.4	13.3	/	7.8	07	0	90	34	NA	-	-	/	/	2.74	/	3	/
	11-20	51.7	/	7	6	14.8	10.5	12.6	/	9.0	20	0	83	27	NA	-	-	/	/	1.00	/	5	/
	21-end	54.5	/	9	6	14.7	9.3	12.0	/	8.0	21	0	76	20	2.3	29	0	/	/	4.19	/	3	/
	Month	143.0	/	25	19	15.2	10.1	12.7	/	7.8	07	0	249	81	NA	-	-	/	/	2.64	/	4	/
Glenties Co. Donegal	1-10		-																				
	11-20		-																				
	21-end		-																				
	Month		-																				

Notes on the tables in January issue

TABLE 1 (Continued)

June, 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 (m/s)	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	18.5	-	7	3	15.4	10.5	12.9	-	7.6	01	0	85	29	2.1	06	0	15.8	-	4.10	-	5	2
	11-20	37.0	-	8	7	14.1	9.8	12.0	-	8.1	13	0	76	20	2.4	13	0	14.4	-	3.03	-	8	3
	21-end	18.4	-	6	5	14.2	9.9	12.1	-	8.1	24	0	77	21	4.5	24	0	15.8	-	7.50	-	6	2
	Month	73.9	106	21	15	14.5	10.1	12.3	-0.2	7.7	01	0	238	70	2.1	06	0	15.3	+0.2	4.88	83	6	7
Casement Aerodrome Co. Dublin	1-10	20.7	-	7	4	18.3	10.3	14.3	-	5.7	01	0	99	43	1.6	01	0	15.3	-	3.58	-	5	1
	11-20	28.1	-	9	5	15.9	9.4	12.6	-	7.6	18	0	82	26	4.1	18	0	13.7	-	2.34	-	6	2
	21-end	40.2	-	8	6	16.3	8.0	12.2	-	5.6	27	0	78	22	1.3	27	0	13.9	-	4.19	-	4	1
	Month	89.0	189	24	15	16.8	9.2	13.0	-0.7	5.6	27	0	259	91	1.3	27	0	14.3	-	3.37	54	5	4
Dublin Airport e Co. Dublin	1-10	15.8	-	7	4	17.6	10.5	14.1	-	5.6	01	0	96	40	3.1	09	0	15.9	-	3.94	-	4	0
	11-20	35.3	-	7	6	15.4	10.1	12.7	-	8.3	20	0	86	30	5.3	14	0	14.4	-	2.69	-	6	1
	21-end	27.9	-	10	5	16.3	8.7	12.5	-	6.3	27	0	81	25	4.4	22	0	15.1	-	5.39	-	4	0
	Month	79.0	144	24	15	16.4	9.8	13.1	-0.5	5.6	01	0	263	95	3.1	09	0	15.1	-1.5	4.01	61	5	1
Kinsealy Co. Dublin	1-10	15.0	/	5	5	17.4	9.5	13.5	/	5.2	01	0	91	35	3.0	02	0	/	/	4.00	/	3	/
	11-20	30.4	/	7	5	15.7	9.8	12.7	/	7.8	20	0	83	27	4.4	14	0	/	/	2.38	/	4	/
	21-end	33.1	/	8	6	16.1	7.8	12.0	/	5.9	27	0	76	20	3.4	22	0	/	/	4.79	/	3	/
	Month	78.5	151	20	16	16.4	9.0	12.7	/	5.2	01	0	250	82	3.0	02	0	/	/	3.72	/	3	/
Galway Co. Galway	1-10	46.9	-	10	7	16.2	10.4	13.3	-	7.7	01	0	89	33	5.9	01	0	15.1	-	3.23	-	4	0
	11-20	24.1	-	9	4	16.1	10.5	13.3	-	9.2	19	0	89	33	7.8	20	0	14.7	-	3.03	-	6	2
	21-end	20.7	-	9	7	16.2	9.4	12.8	-	7.2	27	0	84	28	4.0	27	0	14.9	-	6.07	-	5	1
	Month	91.7	-	28	18	16.1	10.1	13.1	-	7.2	27	0	262	94	4.0	27	0	14.9	-	4.11	-	5	3
Killarney (Muckross Hse) Co. Kerry	1-10	33.4	/	7	6	16.3	10.6	13.4	/	7.5	01	0	90	34	0.7	01	0	/	/	2.51	/	/	/
	11-20	20.0	/	9	6	15.9	10.4	13.2	/	7.9	11	0	88	32	2.8	11	0	/	/	0.79	/	/	/
	21-end	61.9	/	9	7	15.3	10.1	12.7	/	8.2	22	0	83	27	4.4	24	0	/	/	1.89	/	/	/
	Month	115.3	/	25	19	15.8	10.4	13.1	/	7.5	01	0	261	93	0.7	01	0	/	/	1.73	/	/	/
Cahiriveen e (Valentia Obay.) Co. Kerry	1-10	18.6	-	6	5	15.7	10.3	13.0	-	7.9	01	0	86	30	5.2	10	0	14.8	-	2.23	-	5	2
	11-20	15.8	-	9	4	15.5	10.1	12.8	-	6.3	11	0	84	28	4.3	11	0	14.6	-	2.47	-	5	2
	21-end	50.7	-	8	5	14.8	10.3	12.5	-	9.0	22	0	81	25	7.3	24	0	15.1	-	4.13	-	6	0
	Month	85.1	109	23	14	15.3	10.2	12.8	-1.0	6.3	11	0	251	83	4.3	11	0	14.8	-1.4	2.94	50	5	4

Notes on the tables in January issue

TABLE 1 (Continued)

June, 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
Belmullet a Co. Mayo	1-10	31.1	-	10	6	15.5	10.5	13.0	-	8.2	08	0	88	32	6.5	08	0	15.0	-	2.63	-	6	0
	11-20	25.2	-	8	5	15.3	10.5	12.9	-	8.3	19	0	85	29	7.3	11	0	14.8	-	2.46	-	7	3
	21-end	22.3	-	8	6	14.9	9.5	12.2	-	7.7	27	0	78	22	4.4	29	0	15.4	-	5.75	-	6	1
	Month	78.6	108	26	17	15.2	10.2	12.7	-0.7	7.7	27	0	251	56	4.4	29	0	15.1	-0.6	3.61	56	6	4
Claremorris e Co. Mayo	1-10	30.3	-	10	8	16.1	9.7	12.9	-	5.5	01	0	85	29	1.9	01	0	14.2	-	1.82	-	3	0
	11-20	34.2	-	9	5	16.0	9.7	12.8	-	8.8	20	0	84	28	6.8	16	0	14.2	-	2.07	-	5	2
	21-end	34.3	-	9	8	15.5	8.0	11.8	-	5.1	24	0	74	18	1.2	24	0	14.1	-	3.72	-	3	1
	Month	98.8	125	28	21	15.9	9.1	12.5	-0.5	5.1	24	0	243	75	1.2	24	0	14.1	-1.1	2.54	46	4	3
Glenamoy Co. Mayo	1-10	37.4	-	9	9	16.2	9.4	12.8	/	5.1	01	0	84	28	3.4	01	0	/	/	2.10	/	/	/
	11-20	30.7	-	6	6	15.3	9.9	12.6	/	8.0	20	0	82	26	5.9	11	0	/	/	1.36	/	NA	/
	21-end	38.6	-	8	7	15.2	7.9	11.5	/	4.9	29	0	72	16	2.8	29	0	/	/	4.33	/	/	/
	Month	106.7	123	23	22	15.6	9.1	12.3	/	4.9	29	0	238	70	2.8	29	0	/	/	2.60	/	/	/
Dunsany (Grange) Co. Meath	1-10	22.9	-	8	5	17.1	8.3	12.7	/	2.4	01	0	83	27	-0.5	01	1	/	/	2.59	/	/	/
	11-20	30.3	-	10	7	15.0	7.9	11.4	/	5.5	18	0	70	14	0.4	18	0	/	/	1.63	/	NA	/
	21-end	28.7	-	9	8	16.0	6.1	11.1	/	2.5	27	0	67	11	-2.9	27	2	/	/	4.60	/	/	/
	Month	81.9	134	27	20	16.0	7.4	11.7	/	2.4	01	0	220	52	-2.9	27	3	/	/	2.94	/	/	/
Clones e Co. Monaghan	1-10	26.5	-	7	6	17.5	9.6	13.5	-	4.6	01	0	92	36	-1.0	01	1	14.4	-	2.96	-	3	0
	11-20	31.5	-	10	7	15.3	9.3	12.3	-	7.7	14	0	79	23	3.3	14	0	13.2	-	1.90	-	4	1
	21-end	42.0	-	10	9	16.0	7.8	11.9	-	5.4	22	0	75	19	0.3	29	0	13.6	-	3.87	-	3	0
	Month	100.0	133	27	22	16.2	8.9	12.6	-0.6	4.6	01	0	246	78	-1.0	01	1	13.7	-2.1	2.91	54	3	1
Birr e Co. Offaly	1-10	16.5	-	6	5	17.2	10.2	13.7	-	5.9	01	0	93	37	3.3	01	0	15.5	-	2.90	-	4	0
	11-20	12.0	-	8	3	16.2	9.5	12.8	-	8.6	20	0	84	28	5.3	14	0	14.6	-	2.11	-	5	3
	21-end	20.2	-	9	6	15.9	8.6	12.3	-	5.5	27	0	79	23	2.9	27	0	15.1	-	4.25	-	5	1
	Month	48.7	90	23	14	16.4	9.4	12.9	-0.9	5.5	27	0	256	88	2.9	27	0	15.1	-1.5	3.09	52	5	4
Thurles Co. Tipperary	1-10																						
	11-20						NOT	AVAILABLE															
	21-end																						
	Month																						

Notes on the tables in January issue

TABLE 1 (Continued)

June, 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 MTS	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	18.5	-	7	5	17.2	10.0	13.6	/	6.2	01	0	92	36	0.6	01	0	/	/	3.27	/	5	/
	11-20	17.2	-	6	3	16.8	10.7	13.7	/	8.6	20	0	94	38	4.3	15	0	/	/	2.87	/	3	/
	21-end	19.8	-	6	5	17.0	8.8	12.9	/	7.2	22	0	85	29	2.6	25	0	/	/	5.17	/	2	/
	Month	55.5	91	19	13	17.0	9.8	13.4	/	6.2	01	0	271	103	0.6	01	0	/	/	3.77	/	3	/
Mullingar e Co. Westmeath	1-10	34.5	-	7	7	17.1	9.4	13.3	-	4.8	01	0	89	33	1.6	01	0	14.5	-	3.19	-	4	0
	11-20	21.8	-	9	5	15.5	9.0	12.2	-	7.0	18	0	78	22	3.9	18	0	13.3	-	1.61	-	5	2
	21-end	48.0	-	9	9	16.0	8.1	12.0	-	5.2	22	0	76	20	2.8	22	0	14.1	-	4.90	-	4	0
	Month	104.3	151	25	21	16.2	8.8	12.5	-0.6	4.8	01	0	243	75	1.6	01	0	14.0	-2.0	3.23	56	4	2
Campile (Ballysoy) Co. Wexford	1-10	23.2	-	8	6	16.3	9.4	12.9	/	5.1	01	0	85	29	-2.6	01	1	/	/	3.53	/	/	/
	11-20	21.5	-	8	6	16.0	10.0	13.0	/	7.7	20	0	86	30	2.2	20	0	/	/	2.29	/	NA	/
	21-end	20.9	-	5	4	16.6	8.6	12.6	/	5.7	22	0	82	26	-1.4	22	1	/	/	4.48	/	/	/
	Month	65.6	109	21	16	16.3	9.3	12.8	/	5.1	01	0	253	85	-2.6	01	2	/	/	3.43	/	/	/
Clonroche Co. Wexford	1-10	24.2	-	6	6	16.0	9.7	12.8	/	6.8	01	0	85	29	-0.4	08	1	/	/	3.75	/	2	/
	11-20	33.9	-	8	6	15.6	9.8	12.7	/	6.9	18	0	83	27	1.6	18	0	/	/	2.88	/	3	/
	21-end	17.5	-	8	6	16.2	8.4	12.3	/	4.9	22	0	79	23	-0.9	22	1	/	/	5.01	/	2	/
	Month	75.6	104	22	18	16.0	9.3	12.6	/	4.9	22	0	247	79	-0.9	22	2	/	/	3.88	/	2	/
Johnstown Castle Co. Wexford	1-10	15.6	-	7	4	15.5	9.8	12.7	/	5.3	01	0	83	27	-1.3	01	1	/	/	4.54	/	4	/
	11-20	31.5	-	7	5	15.7	10.1	12.9	/	7.9	20	0	85	29	3.3	18	0	/	/	2.94	/	2	/
	21-end	23.7	-	8	5	16.2	9.1	12.6	/	6.5	22	0	83	27	0.9	22	0	/	/	5.33	/	3	/
	Month	70.8	109	22	14	15.8	9.7	12.7	/	5.3	01	0	251	83	-1.3	01	1	/	/	4.27	/	3	/
Rosslare e Co. Wexford	1-10	12.9	-	8	4	14.9	10.5	12.7	-	6.9	01	0	83	27	4.6	01	0	14.8	-	4.31	-	5	0
	11-20	21.6	-	7	4	15.6	10.8	13.2	-	8.8	20	0	88	32	6.4	20	0	14.8	-	3.60	-	6	1
	21-end	17.1	-	8	7	16.3	10.0	13.1	-	7.8	22	0	87	31	4.7	27	0	15.5	-	5.47	-	4	0
	Month	51.6	92	23	15	15.6	10.4	13.0	-0.8	6.9	01	0	258	90	4.6	01	0	15.0	-2.0	4.46	59	5	1

Notes on the tables in January issue

TABLE 2

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

June, 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	-	39	2
	11-20		16	-	34	5
	21-end	-	14	-	16	18
	Month		50	-	-	-
Kinsealy* Co. Dublin	1-10	16034	22	-	63	1
	11-20	11533	15	-	42	21
	21-end	15556	18	-	27	15
	Month	42123	55	-	-	-
Cahiriveen ° (Valentia Obsy.) Co. Kerry	1-10	13812	13	-	30	8
	11-20	13462	15	-	29	1
	21-end	16528	23	-	0	31
	Month	43802	51	-	-	-
Kilkenny ° Co. Kilkenny	1-10	16220	-	-	-	-
	11-20	13501	-	-	-	-
	21-end	18148	-	-	-	-
	Month	47869	-	-	-	-
Ballinamore Co. Leitrim	1-10		21	-	31	25
	11-20		14	-	10	10
	21-end	-	10	-	0	0
	Month		45	-	-	-
Glenamoy/ Co. Mayo	1-10		20	-	45	27
	11-20		20	-	31	14
	21-end	-	19	-	11	20
	Month		59	-	-	-
Birr ° Co. Offaly	1-10	15341				
	11-20	14061	-	-	-	-
	21-end	17573				
	Month	46975				
Johnstown Castle Co. Wexford	1-10		13	-	44	8
	11-20		18	-	25	19
	21-end	-	25	-	24	1
	Month		56	-	-	-

*, /, See notes in January issue.