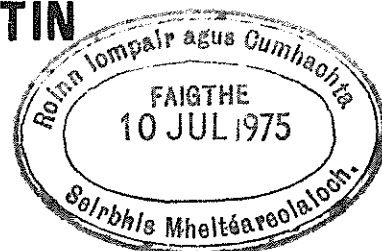


AGROMETEOROLOGICAL BULLETIN

JUNE 1975



The weather during June

The most notable feature of the weather during the month was the low rainfall. Most places had less than 30% of normal June rainfall and in some parts of Leinster the percentage of normal rainfall was only 10% - 15%. Birr had its driest June for over 100 years and in many midland, eastern and southern areas the May/June period this year was the driest recorded.

In many areas of the midlands and east, there was little or no rain in the period May 14 - June 15 and in some parts of those areas it was almost completely dry from May 14 - June 30.. During the greater part of June, long periods of bright sunshine and high daytime temperatures gave rise to high rates of evapotranspiration so that the combination of low rainfall and good drying led to serious depletion of soil moisture. By the end of the month, soil moisture deficits were over 100mm in many areas; in northwestern districts, where there were appreciable falls of rain in the period 14th - 18th, deficits were not quite so high but were still greater than have been experienced there for many years. Because of the dry soil, growth was poor and there were many reports of slow progress in almost all crops.

While afternoon air temperatures rose to above-normal levels during most of the month, clear skies and light winds led to low nighttime air temperatures; overall mean air temperatures were 0.1°C (Malin Head) to 0.9°C (Shannon Airport) above normal June values in most places but at some coastal stations they were slightly below normal. At Birr, a minimum air temperature of -0.3°C on 1st was the lowest June air temperature for over a century. Sharp ground frost occurred in many inland places during the first few nights of the month and in a few places as late as 30th.

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

JUNE, 1975

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	12.6	-	4	3	12.6	-	+2.8	04	0	82	33	+1.2	04	0	15.6	-	8.19	-	13	1
	11-20	15.8	-	8	7	12.4	-	+8.1	16	0	80	24	+4.9	16	0	15.9	-	5.20	-	12	1
	21-end	0.2	-	1	0	12.9	-	+6.7	25	0	86	30	+5.1	21	0	18.3	-	6.83	-	10	0
	Month	28.6	40	13	10	12.6	+0.1	+2.8	04	0	248	87	+1.2	04	0	16.6	-	6.74	114	12	2
Dublin Airport Co. Dublin	1-10	4.5	-	4	3	13.1	-	+2.4	01	0	87	37	0.0	01	0	15.5	-	8.56	-	9	1
	11-20	9.8	-	2	1	14.7	-	+7.3	16	0	103	47	+4.5	16	0	17.8	-	5.98	-	7	0
	21-end	0.6	-	2	0	14.7	-	+6.2	27	0	103	47	+3.6	29	0	20.2	-	10.83	-	5	0
	Month	14.9	27	8	4	14.1	+0.5	+2.4	01	0	293	131	0.0	01	0	17.8	+1.3	8.46	130	7	1
Kinsealy Co. Dublin	1-10	3.2	-	3	2	12.6	-	+2.5	03	0	83	32	-1.7	01	3	-	-	8.74	-	6	-
	11-20	6.8	-	2	2	14.5	-	+6.2	16	0	102	46	+2.8	16	0	-	-	4.95	-	6	-
	21-end	0.9	-	1	0	14.1	-	+4.5	29	0	97	41	-1.1	29	1	-	-	10.48	-	4	-
	Month	10.9	-	6	4	13.7	-	+2.5	03	0	282	119	-1.7	01	4	-	-	8.06	-	5	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	1.9	-	3	1	13.2	-	+1.4	01	0	88	39	-4.2	01	4	-	-	7.40	-	6	-
	11-20	10.3	-	4	3	14.8	-	+7.3	17	0	108	52	+2.1	16	0	-	-	4.63	-	5	-
	21-end	0.0	-	0	0	13.1	-	+3.8	29	0	102	46	-1.2	27	2	-	-	10.45	-	4	-
	Month	12.2	-	7	4	13.7	-	+1.4	01	0	298	137	-4.2	01	6	-	-	7.49	-	5	-
Galway (Univ. Coll.) Co. Galway	1-10	10.3	-	4	1	13.5	-	+4.1	01	0	91	39				-	-	6.79	-		
	11-20	12.0	-	6	4	13.9	-	+8.0	16	0	95	39	N/A	N/A		-	-	3.75	-	N/A	
	21-end	0.0	-	0	0	16.0	-	+7.0	27	0	116	60				-	-	8.16	-		
	Month	22.3	-	10	5	14.5	-	+4.1	01	0	302	138				-	-	6.23	-		
Killarney (Muckross House) Co. Kerry	1-10	10.3	-	4	4	13.3	-	+5.0	05	0	89	35	-1.8	01	3	-	-	5.90	-		
	11-20	16.7	-	5	4	13.9	-	+7.4	13	0	95	39	+2.2	13	0	-	-	3.01	-		
	21-end	0.0	-	0	0	16.3	-	+7.3	27	0	119	63	+0.1	27	0	-	-	8.63	-		
	Month	27.0	-	9	8	14.5	-	+5.0	05	0	303	137	-1.8	01	3	-	-	5.85	-		
Cahiriveen (Valentia Obsy.) Co. Kerry	1-10	7.7	-	4	3	12.9	-	+5.3	01	0	86	31	+1.1	01	0	15.8	-	6.05	-	11	3
	11-20	10.3	-	6	2	13.4	-	+7.9	11	0	90	34	+6.5	11	0	17.1	-	4.59	-	8	1
	21-end	0.0	-	0	0	15.7	-	+9.1	25	0	113	57	+6.6	25	0	20.5	-	10.46	-	6	0
	Month	18.0	22	10	5	14.0	+0.2	+5.3	01	0	289	122	+1.1	01	0	17.8	+1.7	7.03	119	8	4

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

JUNE, 1975

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	°C	Hr	%	Kt				
Tralee (Caherweesheen) Co. Kerry	1-10	11.2	-	5	4	13.5	-	+4.8	03	0	91	36	+2.6	03	0	-	-	6.12	-	-	-
	11-20	15.7	-	6	4	14.4	-	+7.0	17	0	101	45	+4.6	17	0	-	-	4.02	-	-	-
	21-end	0.0	-	0	0	16.7	-	+6.5	27	0	124	68	+3.3	27	0	-	-	10.09	-	-	-
	Month	26.9	-	11	8	14.9	-	+4.8	03	0	316	149	+2.6	03	0	-	-	6.74	-	-	-
Lullymore Co. Kildare	1-10	5.1	-	3	3	12.7	-	-0.1	01	1	83	38	-7.9	01	4	-	-	N/A	-	9	-
	11-20	6.7	-	3	2	14.4	-	+3.5	17	0	100	44	-2.1	13	1	-	-	-	8	-	-
	21-end	0.5	-	1	0	14.1	-	+1.1	29	0	97	41	-4.5	27	5	-	-	-	5	-	-
	Month	12.3	-	7	5	13.7	-	-1.0	01	1	280	123	-7.9	01	10	-	-	-	7	-	-
Kilkenny Co. Kilkenny	1-10	1.9	-	2	1	12.6	-	+0.5	01	0	83	34	-2.0	01	1	16.7	-	7.79	-	6	1
	11-20	10.9	-	4	2	14.2	-	+4.0	16	0	99	43	-0.1	16	1	18.3	-	4.38	-	5	0
	21-end	0.0	-	0	0	15.9	-	+3.2	29	0	115	59	-0.6	29	1	22.2	-	9.06	-	4	0
	Month	12.8	22	6	3	14.2	+0.3	+0.5	01	0	297	136	-2.0	01	3	19.1	+2.3	7.08	115	5	1
Mooncoin (Silverspring) Co. Kilkenny	1-10	1.4	-	2	0	12.7	-	+3.0	01	0	83	31	-3.4	01	4	-	-	7.34	-	-	-
	11-20	14.1	-	6	5	14.5	-	+3.5	16	0	101	45	-3.5	16	1	-	-	5.20	-	-	-
	21-end	0.0	-	0	0	15.6	-	+3.0	29	0	112	56	+1.0	29	0	-	-	7.48	-	-	-
	Month	15.5	-	8	5	14.3	-	+3.0	29	0	296	132	-3.5	16	5	-	-	6.67	-	-	-
Ballinamore Co. Leitrim	1-10	14.4	-	3	2	12.5	-	+0.5	04	0	81	35	N/A	N/A	-	-	-	6.73	-	5	-
	11-20	8.2	-	4	4	13.0	-	+4.9	17	0	86	30	-0.3	17	1	-	-	3.67	-	5	-
	21-end	0.0	-	0	0	14.1	-	+3.1	29	0	98	42	+3.1	29	0	-	-	9.27	-	4	-
	Month	22.6	-	7	6	13.2	-	+0.5	04	0	265	107	N/A	N/A	-	-	-	6.56	-	5	-
Ardee (Boharnamoe) Co. Louth	1-10	4.4	-	3	2	12.4	-	0.0	01	0	80	31	-4.6	01	3	-	-	-	-	-	-
	11-20	7.6	-	5	2	14.1	-	+5.0	15	0	97	41	+1.6	16	0	-	-	-	-	-	-
	21-end	0.0	-	0	0	13.6	-	+2.5	29	0	92	37	+0.3	27	0	-	-	-	-	-	-
	Month	12.0	-	8	4	13.4	-	0.0	01	0	269	109	-4.6	01	3	-	-	-	-	-	-
Ballinrobe (Greagh) Co. Mayo	1-10	9.6	-	4	3	12.9	-	+2.3	01	0	85	35	-4.1	01	4	-	-	7.25	-	5	-
	11-20	17.3	-	7	4	13.8	-	+5.2	15	0	94	38	+1.1	13	0	-	-	5.15	-	6	-
	21-end	0.1	-	0	0	15.1	-	+3.2	29	0	106	51	-3.2	29	2	-	-	9.87	-	4	-
	Month	27.0	-	11	7	13.9	-	+2.3	01	0	285	124	-4.1	01	6	-	-	7.42	-	5	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

JUNE, 1975

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					
Belmullet Co. Mayo	1-10	14.6	-	3	3	12.2	-	+3.6	04	0	78	28	-0.3	04	1	15.6	-	7.11	-	12	4
	11-20	14.8	-	6	4	12.6	-	+5.5	17	0	82	26	+2.4	17	0	16.7	-	4.73	-	12	1
	21-end	0.0	-	0	0	14.0	-	+6.8	25	0	96	40	+3.8	25	0	18.9	-	8.75	-	8	0
	Month	29.4	40	9	7	12.9	-0.5	+3.6	04	0	256	94	-0.3	04	1	17.1	+1.5	6.86	107	11	5
Claremorris Co. Mayo	1-10	7.7	-	5	2	12.3	-	+1.6	04	0	80	33	-1.9	01	3	14.8	-	6.98	-	9	1
	11-20	14.0	-	5	4	12.9	-	+5.9	15	0	85	29	+0.8	16	0	16.5	-	3.98	-	8	0
	21-end	0.0	-	0	0	14.7	-	+4.0	29	0	103	47	+2.0	30	0	18.8	-	9.83	-	6	0
	Month	21.7	28	10	6	13.3	+0.3	+1.6	04	0	268	109	-1.9	01	3	16.7	+1.6	6.93	126	8	1
Glenamoy Co. Mayo	1-10	20.5	-	3	3	12.6	-	+1.4	04	0	82	33	-1.5	04	2	-	-	6.55	-	-	-
	11-20	27.0	-	9	5	12.5	-	+4.1	17	0	81	25	+0.9	17	0	-	-	3.72	-	-	-
	21-end	0.1	-	0	0	14.2	-	+4.3	25	0	98	42	+1.8	25	0	-	-	8.31	-	N/A	-
	Month	47.6	-	12	8	13.1	-	+1.4	04	0	261	100	-1.5	04	2	-	-	6.19	-	-	-
Dunsany (Grange) Co. Meath	1-10	5.5	-	2	2	12.3	-	-0.5	01	1	79	33	-6.5	01	4	-	-	7.46	-	-	-
	11-20	13.0	-	5	2	13.7	-	+4.5	17	0	93	37	+1.0	16	0	-	-	3.91	-	-	-
	21-end	0.0	-	0	0	13.7	-	+2.5	29	0	93	37	-2.7	27	3	-	-	10.57	-	-	-
	Month	18.5	-	7	4	13.2	-	-0.5	01	1	265	107	-6.5	01	7	-	-	7.31	-	-	-
Clones Co. Monaghan	1-10	11.6	-	6	3	12.8	-	+1.9	02	0	84	38	-1.4	01	2	15.0	-	7.66	-	8	1
	11-20	14.0	-	6	5	12.9	-	+5.6	16	0	85	29	+0.9	17	0	16.3	-	4.44	-	6	0
	21-end	0.0	-	0	0	14.6	-	+4.8	27	0	102	46	-0.7	27	1	19.5	-	10.00	-	5	0
	Month	25.6	35	12	8	13.4	+0.2	+1.9	02	0	271	113	-1.4	01	3	16.9	+1.1	7.37	136	6	1
Birr Co. Offaly	1-10	2.4	-	3	1	12.8	-	-0.3	01	1	84	39	-4.2	01	3	16.7	-	6.77	-	6	2
	11-20	4.5	-	3	2	14.0	-	+3.8	17	0	96	40	+1.6	17	0	18.3	-	4.12	-	5	0
	21-end	0.2	-	1	0	15.7	-	+3.3	29	0	113	57	-0.3	27	2	22.4	-	9.36	-	3	0
	Month	7.1	12	7	3	14.2	+0.4	-0.3	01	1	293	136	-4.2	01	5	19.1	+2.8	6.75	113	5	2
Thurles Co. Tipperary	1-10	2.8	-	3	1	13.1	-	-0.5	01	1	87	37	-1.9	01	3	-	-	6.39	-	-	-
	11-20	6.1	-	7	3	14.0	-	+1.7	17	0	96	41	+0.1	17	0	-	-	3.02	-	-	-
	21-end	0.7	-	1	0	15.9	-	+2.7	29	0	116	60	-0.2	29	1	-	-	5.79	-	-	-
	Month	9.6	15	11	4	14.3	+0.5	-0.5	01	1	299	138	-1.9	01	4	-	-	5.07	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE and WIND

JUNE, 1975

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 (Ballygaghin) Co. Waterford	1-10	1.8	-	2	1	12.9	-	+4.5	04	0	85	30	-1.4	01	2	-	-	8.25	-	5	-
	11-20	13.3	-	4	3	15.0	-	+5.8	17	0	106	50	+3.1	17	0	-	-	6.08	-	5	-
	21-end	0.0	-	0	0	15.9	-	+6.2	27	0	116	60	+1.8	17	0	-	-	11.08	-	4	-
	Month	15.1	-	6	4	14.6	-	+4.5	04	0	307	140	-1.4	01	2	-	-	8.47	-	5	-
Mullingar Co. Westmeath	1-10	8.7	-	4	3	12.6	-	+1.3	04	0	82	36	-2.3	04	3	14.5	-	7.69	-	9	2
	11-20	9.9	-	5	3	13.3	-	+5.2	17	0	90	34	+2.3	17	0	16.0	-	4.21	-	8	0
	21-end	0.3	-	1	0	14.6	-	+5.1	29	0	102	46	+1.0	29	0	18.6	-	10.17	-	6	0
	Month	18.9	-	10	6	13.5	-	+1.3	04	0	274	115	-2.3	04	3	16.4	-	7.36	-	8	2
Campile (Ballysop) Co. Wexford	1-10	2.9	-	2	2	12.3	-	+2.2	01	0	79	29	-2.0	01	3	-	-	-	-	-	-
	11-20	8.8	-	5	4	14.3	-	+4.4	16	0	99	43	-2.0	16	1	-	-	N/A	-	N/A	-
	21-end	0.0	-	0	0	15.7	-	+6.6	27	0	113	57	+0.6	30	0	-	-	-	-	-	-
	Month	11.7	-	7	6	14.1	-	+2.2	01	0	291	129	-2.0	01	4	-	-	-	-	-	-
Clonroche Co. Wexford	1-10	2.4	-	2	1	12.6	-	+2.5	01	0	82	32	-	-	-	-	-	-	-	5	-
	11-20	17.4	-	5	4	14.2	-	+4.5	16	0	99	43	-	-	-	-	-	-	-	5	-
	21-end	0.0	-	0	0	15.2	-	+5.2	27	0	108	52	-	-	-	-	-	N/A	-	4	-
	Month	19.8	-	7	5	14.0	-	+2.5	01	0	289	127	-	-	-	-	-	-	-	5	-
Johnstown Castle Co. Wexford	1-10	1.6	-	1	1	12.5	-	+4.0	04	0	81	30	-1.2	04	1	-	-	8.36	-	7	-
	11-20	14.7	-	4	3	14.7	-	+5.5	16	0	103	47	+1.8	16	0	-	-	5.59	-	7	-
	21-end	0.0	-	0	0	14.2	-	+6.2	30	0	98	42	+0.8	30	0	-	-	9.78	-	5	-
	Month	16.3	24	5	4	13.8	-	+4.0	04	0	282	119	-1.2	04	1	-	-	7.91	-	6	-
Rosslare Co. Wexford	1-10	1.6	-	1	1	12.2	-	+5.0	03	0	79	24	+2.6	04	0	16.0	-	9.14	-	9	1
	11-20	9.1	-	4	3	14.5	-	+6.0	16	0	101	45	+4.5	16	0	18.4	-	7.06	-	9	1
	21-end	0.7	-	2	0	14.3	-	+8.5	30	0	99	43	+4.3	30	0	19.1	-	9.91	-	11	0
	Month	11.4	20	7	4	13.7	-0.1	+5.0	03	0	279	112	+2.6	04	0	17.8	+0.7	8.70	116	10	2

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

TABLE 2.

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE June, 1975

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	-	27	14	79	0
	11-20	-	31	7	86	0
	21-end	-	36	17	103	0
	Month	-	94	-	-	-
Kinsealy Co. Dublin	1-10		27	11	86	0
	11-20	N/A	31	5	91	0
	21-end		53	17	108	0
	Month		111	-	-	-
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	19991	24	11	58	0
	11-20	18840	26	7	65	0
	21-end	25938	32	20	85	0
	Month	64769	82	-	-	-
Kilkenny e Co. Kilkenny	1-10	22414	-	-	-	-
	11-20	18333	-	-	-	-
	21-end	25283	-	-	-	-
	Month	66030	-	-	-	-
Ballinamore Co. Leitrim	1-10		36	3	80	0
	11-20		33	7	87	0
	21-end	N/A	38	14	101	0
	Month		107	-	-	0
Glenamoy Co. Mayo	1-10	-	35	0	75	5
	11-20	-	23	0	60	15
	21-end	-	39	26	86	0
	Month	-	97	-	-	-
Birr e Co. Offaly	1-10	19810	-	-	-	-
	11-20	17768	-	-	-	-
	21-end	24242	-	-	-	-
	Month	61820	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	33	19	84	0
	11-20	-	42	2	86	0
	21-end	-	38	15	101	0
	Month	-	113	-	-	-

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