

METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JUNE 1983

The Weather of June

Low pressure and frontal troughs, associated with wet and relatively mild weather on the 1st and 2nd was followed by settled and warm conditions from 4th to 6th as easterly winds developed. A return to cloudy and humid weather occurred on 7th, and outbreaks of rain spread from the northwest. As a southwesterly airflow developed on 8th, the winds freshened in all areas and were strong with gale gusts between 10th and 12th, especially in western areas. A mixture of widespread rain or showers with sunny spells occurred, some of the showers being blustery and of hail, as conditions became cooler with the onset of a west to northwest windflow on the 13th.

The weather was somewhat cloudy with outbreaks of rain or showers, and there was light variable or southerly winds after the 14th but as pressure began to rise the sunny spells increased and drying conditions became good. Settled weather set in on the 17th, being sunny and warm with light easterly winds and afternoon temperatures reaching 20-22°C up to 20th.

A slack trough formed over the country on the 21st and a few showers occurred in some places, especially with the development of a northerly airflow on the 22nd, which later backed northwest or west. Because the pressure pattern was largely anticyclonic, the weather overall proved to be dry, apart from a few isolated showers. Humid conditions, in the west to northwest airflow reached the country on the 28th, and the weather to the end of the month was close and warm with a little rain or drizzle.

Monthly Amounts of Precipitation ranged from over 110% of normal in the south and southwest to between 90-100% in the parts of the midlands and east and 40-75% in many areas. Values varied from 44% of normal at Belmullet to 116% at Fermoy. Rainfall was well above average at most stations on the first ten-days, near average on the second ten days and well below on the third at all stations. Weather conducive to the spread of blight occurred at intervals during the first ten days and from 25-29 June, especially in the south and west. The wetter conditions of the early part of the month favoured Rhynchosporium, Spheria and Alternaria (in Oil Seed Rape) in cereals. Later Mildew and a little Brown Rust was favoured. Soil moisture deficits had attained in excess of 50mm in the southeast and southmidlands by the end of the month.

Mean Monthly Air Temperature was near or a little below normal, varying from 0.8°C below at Belmullet to 0.1°C above at Dublin Airport and Claremorris. Ground frost was recorded at Kilkenny only on 12th 13th and 15th. Soil temperatures (100mm) ranged from 1.1°C below average at Mullingar and Clones to 0.2°C above at Malin Head. Degree days, thresholds 4.4°C and 10.0°C were about normal.

Mean Duration of Bright Sunshine was well below normal in the southeast, east, midlands and in parts of the west. Values varied from 67% of normal at Clones, 73% at Claremorris, to 96% at Roches Point and 95% at Galway. Strong Winds with gale gusts occurred from 10th-14th.

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 in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)		
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST *GRASS-MIN*	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE
Carlow (Oak Park) Co. Carlow	1-10	18.2	-	5	3	16.6	9.3	13.0	-	7.8	5	0	86	-	33	-	2.0	6	0	-	-	3.65	-	3.4	-	-
	11-20	8.4	-	4	2	17.5	7.6	12.6	-	6.0	14	0	82	-	32	-	1.2	14	0	-	-	6.71	-	2.8	-	-
	21-END	0.9	-	1	0	18.9	10.5	14.7	-	7.5	25	0	103	-	49	-	3.8	25	0	-	-	4.07	-	3.4	-	-
	MONTH	27.4	53	10	5	17.7	9.2	13.4	-	6.0	14	0	271	-	113	-	1.2	14	0	-	-	4.81	-	3.2	-	76
Shannon Airport Co. Clare	1-10	37.2	-	8	6	17.3	10.9	14.1	-	7.8	1	0	97	-	42	-	6.2	1	0	14.6	-	2.76	-	3.6	1	-
	11-20	9.7	-	3	2	18.2	9.3	13.8	-	6.4	15	0	94	-	40	-	2.0	15	0	15.4	-	6.88	-	4.1	1	-
	21-END	0.5	-	1	0	18.7	11.5	15.1	-	8.0	24	0	107	-	52	-	4.5	27	0	17.9	-	5.38	-	4.1	0	-
	MONTH	47.4	76	12	8	18.1	10.6	14.3	+0.0	6.4	15	0	298	102	134	103	2.0	15	0	16.0	-0.5	5.01	83	4.0	2	91
Fermoy (Coolnakilla) Co. Cork	1-10	45.2	-	7	7	15.3	8.9	12.1	-	6.3	1	0	77	-	25	-	-0.2	1	1	-	-	3.21	-	3.9	-	-
	11-20	15.4	-	4	3	16.6	6.8	11.7	-	4.4	15	0	73	-	26	-	-0.9	12	1	-	-	7.00	-	3.8	-	-
	21-END	38.7	-	2	2	18.0	9.8	13.9	-	7.4	27	0	95	-	41	-	2.0	24	0	-	-	3.57	-	5.1	-	-
	MONTH	99.3	-	13	12	16.7	8.5	12.6	-	4.4	15	0	246	-	92	-	-0.9	12	2	-	-	4.59	-	4.2	-	71
Fermoy (Moore Park) Co. Cork	1-10	44.2	-	7	5	17.0	10.1	13.5	-	6.9	1	0	91	-	37	-	1.0	1	0	-	-	3.23	-	N/A	-	-
	11-20	14.7	-	3	3	17.7	6.8	12.2	-	3.1	15	0	78	-	31	-	3.1	15	0	-	-	7.04	-	N/A	-	-
	21-END	10.6	-	2	1	19.2	11.3	15.2	-	8.9	24	0	108	-	53	-	8.9	24	0	-	-	4.43	-	N/A	-	-
	MONTH	69.5	116	12	9	17.9	9.4	13.7	-	3.1	15	0	278	-	120	-	1.0	1	0	-	-	4.90	-	N/A	-	N/A
Mallow Co. Cork	1-10	38.6	-	7	7	17.1	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	-	-	N/A	-	-	-	-
	11-20	21.5	-	3	3	18.1	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	-	-	N/A	-	-	-	-
	21-END	4.4	-	1	1	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	-	-	3.34	-	-	-	-
	MONTH	64.5	117	11	11	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	-	-	N/A	-	-	-	-
Roches Point Co. Cork	1-10	26.4	-	8	5	15.3	10.9	13.1	-	9.1	1	0	87	-	31	-	7.3	1	0	14.5	-	3.98	-	4.5	2	-
	11-20	12.4	-	4	3	16.3	8.8	12.5	-	6.4	15	0	81	-	29	-	2.4	17	0	15.1	-	9.10	-	4.0	2	-
	21-END	1.0	-	1	1	18.5	12.4	15.4	-	10.7	28	0	110	-	54	-	7.2	21	0	17.9	-	5.97	-	4.8	1	-
	MONTH	39.8	74	13	9	16.7	10.7	13.7	-0.2	6.4	15	0	279	103	114	106	2.4	17	0	15.8	-0.2	6.35	96	4.4	5	92
Glencolumbkille Co. Donegal	1-10	47.0	-	7	5	15.8	9.9	12.9	-	8.6	2	0	85	-	30	-	4.5	1	0	-	-	2.59	-	2.9	-	-
	11-20	24.9	-	5	3	16.7	9.2	12.9	-	7.8	14	0	85	-	32	-	2.5	18	0	-	-	4.82	-	3.4	-	-
	21-END	13.3	-	7	3	14.9	10.1	12.5	-	6.0	25	0	81	-	27	-	N/A	N/A	N/A	-	-	2.51	-	3.4	-	-
	MONTH	85.2	-	19	11	15.8	9.7	12.8	-	6.0	25	0	251	-	89	-	N/A	N/A	N/A	-	-	3.31	-	3.2	-	65

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

JUNE 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND						
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)				
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE		
Glenties Co. Donegal	1-10	28.0	-	6	6	16.1	9.7	12.9	-	6.2	1	0	85	-	31	-	2.3	1	0	-	-	2.61	-	-	-	-	-	-
	11-20	27.8	-	6	4	16.9	8.2	12.6	-	6.5	13	0	82	-	31	-	2.0	13	0	-	-	5.43	-	-	-	-	-	-
	21-END	14.1	-	7	3	15.6	9.8	12.7	-	3.3	25	0	83	-	30	-	1.1	25	0	-	-	3.45	-	-	-	-	-	-
	MONTH	69.9	74	19	13	16.2	9.2	12.7	-	3.3	25	0	250	-	92	-	1.1	25	0	-	-	3.83	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	26.4	-	5	3	13.8	9.5	11.7	-	8.5	2	0	73	-	18	-	5.1	1	0	14.4	-	3.95	-	6.8	1	-	-	-
	11-20	16.5	-	5	4	15.4	9.3	12.4	-	7.0	13	0	80	-	26	-	4.9	13	0	14.7	-	6.24	-	7.0	4	-	-	-
	21-END	3.0	-	3	1	14.4	10.5	12.4	-	8.3	25	0	80	-	25	-	3.2	24	0	16.8	-	3.49	-	6.7	0	-	-	-
	MONTH	45.9	65	13	8	14.5	9.8	12.1	-0.4	7.0	13	0	233	95	70	83	3.2	24	0	15.3	+0.2	4.56	77	6.8	5	78	-	-
Casement Aerodrome Co. Dublin	1-10	32.9	-	5	4	16.6	9.3	12.9	-	7.8	5	0	85	-	32	-	3.9	5	0	14.0	-	3.41	-	5.0	1	-	-	-
	11-20	6.3	-	5	2	17.1	8.0	12.5	-	5.9	14	0	82	-	31	-	2.5	18	0	14.5	-	6.02	-	4.8	4	-	-	-
	21-END	2.0	-	3	1	18.4	9.8	14.1	-	6.5	22	0	97	-	43	-	2.4	22	0	16.5	-	3.84	-	4.2	0	-	-	-
	MONTH	41.2	88	13	7	17.4	9.0	13.2	-0.5	5.9	14	0	264	98	106	93	2.4	22	0	15.0	-	4.42	71	4.7	5	80	-	-
Dublin Airport Co. Dublin	1-10	28.0	-	4	4	16.4	10.0	13.2	-	8.1	6	0	88	-	34	-	6.0	1	0	15.0	-	3.72	-	4.0	0	-	-	-
	11-20	11.2	-	6	5	17.0	9.5	13.2	-	6.1	14	0	88	-	35	-	4.6	14	0	15.5	-	7.14	-	4.2	3	-	-	-
	21-END	14.0	-	2	1	18.4	11.0	14.7	-	9.2	30	0	103	-	47	-	5.8	22	0	18.0	-	4.60	-	4.5	0	-	-	-
	MONTH	53.2	97	12	10	17.3	10.2	13.7	+0.1	6.1	14	0	280	102	116	101	4.6	14	0	16.2	-0.4	5.15	79	4.2	3	91	-	-
Kinsealy Co. Dublin	1-10	34.0	-	6	4	16.4	9.3	12.8	-	7.9	5	0	84	-	31	-	2.8	5	0	-	-	3.24	-	2.9	-	-	-	-
	11-20	9.5	-	5	4	N/A	8.0	N/A	-	5.7	18	0	N/A	-	N/A	-	1.4	13	0	-	-	7.23	-	3.1	-	-	-	-
	21-END	1.3	-	2	0	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	-	N/A	0	-	-	N/A	-	3.4	-	-	-	-
	MONTH	44.8	86	13	8	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	-	N/A	0	-	-	N/A	-	3.1	-	N/A	-	-
Galway Co. Galway	1-10	34.6	-	9	5	16.3	10.1	13.2	-	7.5	1	0	88	-	33	-	4.2	1	0	15.1	-	2.82	-	3.8	1	-	-	-
	11-20	16.6	-	6	4	16.9	9.5	13.2	-	7.8	14	0	88	-	34	-	5.3	15	0	15.6	-	7.42	-	4.3	3	-	-	-
	21-END	1.9	-	2	1	18.1	10.6	14.4	-	7.1	24	0	100	-	45	-	3.1	25	0	18.7	-	6.23	-	3.9	0	-	-	-
	MONTH	53.1	76	17	10	17.1	10.1	13.6	-0.3	7.1	24	0	276	-	113	-	3.1	25	0	16.5	-	5.49	95	4.0	4	86	-	-
Killarney (Muckross House) Co. Kerry	1-10	49.8	-	8	7	16.0	10.4	13.2	-	6.1	1	0	88	-	34	-	1.6	1	0	-	-	2.03	-	-	-	-	-	-
	11-20	20.7	-	4	4	17.5	7.9	12.7	-	5.0	15	0	83	-	32	-	1.6	15	0	-	-	N/A	-	-	-	-	-	-
	21-END	6.0	-	5	2	18.5	11.3	14.9	-	8.2	25	0	105	-	50	-	5.2	24	0	-	-	N/A	-	-	-	-	-	-
	MONTH	76.5	-	17	13	17.3	9.9	13.6	-	5.0	15	0	276	-	116	-	1.6	15	0	-	-	N/A	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

JUNE 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (mm)		
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS			
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	52.5	-	8	6	16.0	10.3	13.2	-	5.3	1	0	88	-	34	-	3.0	1	0	15.0	-	2.39	-	4.0	1	-
	11-20	25.3	-	5	4	17.3	8.7	13.0	-	6.0	15	0	86	-	34	-	3.3	15	0	15.5	-	7.41	-	4.6	1	-
	21-END	10.7	-	2	2	16.6	11.1	13.9	-	7.4	25	0	95	-	40	-	4.0	25	0	17.4	-	5.11	-	4.1	0	-
	MONTH	88.5	113	15	12	16.7	10.0	13.4	-0.4	5.3	1	0	269	100	107	99	3.0	1	0	16.0	-0.2	4.97	84	4.2	2	77
Ardfert (Liscahane) Co. Kerry	1-10	43.3	-	7	6	16.7	9.5	13.1	-	4.9	1	0	87	-	33	-	0.3	1	0	-	-	2.72	-	-	-	-
	11-20	14.4	-	5	4	17.8	8.4	13.1	-	4.4	15	0	87	-	35	-	0.8	15	0	-	-	7.00	-	-	-	-
	21-END	7.7	-	5	3	17.4	10.5	14.0	-	6.5	24	0	96	-	42	-	1.9	25	0	-	-	N/A	-	-	-	-
	MONTH	65.4	-	17	13	17.3	9.4	13.4	-	4.4	15	0	269	-	110	-	0.3	1	0	-	-	N/A	-	-	-	-
Lullymore Co. Kildare	1-10	44.7	-	8	7	16.3	8.5	12.4	-	6.5	1	0	80	-	29	-	3.0	4	0	-	-	2.24	-	3.5	-	-
	11-20	9.1	-	4	3	17.3	7.1	12.2	-	4.2	15	0	78	-	30	-	-2.1	15	3	-	-	6.08	-	3.6	-	-
	21-END	1.6	-	1	1	18.1	9.7	13.9	-	6.9	22	0	95	-	42	-	2.5	25	0	-	-	3.69	-	3.9	-	-
	MONTH	55.4	89	13	11	17.2	8.4	12.8	-	4.2	15	0	253	-	100	-	-2.1	15	3	-	-	4.00	-	3.6	-	65
Kilkenny Co. Kilkenny	1-10	33.8	-	7	4	16.8	9.5	13.2	-	8.0	10	0	88	-	34	-	3.1	4	0	15.1	-	3.70	-	2.8	0	-
	11-20	14.6	-	5	3	17.6	7.3	12.5	-	4.0	15	0	81	-	32	-	-1.3	15	3	15.9	-	6.90	-	2.6	2	-
	21-END	0.6	-	2	0	18.9	11.2	15.1	-	8.0	28	0	107	-	51	-	3.3	28	0	19.3	-	3.96	-	2.8	0	-
	MONTH	49.0	91	14	7	17.8	9.4	13.6	-0.3	4.0	15	0	275	101	117	98	-1.3	15	3	16.8	-0.2	4.85	79	2.7	2	78
Mooncoin (Silverspring) Co. Kilkenny	1-10	41.5	-	7	4	16.5	10.1	13.3	-	7.9	1	0	89	-	35	-	3.2	1	0	-	-	3.47	-	-	-	-
	11-20	15.5	-	4	4	17.7	7.5	12.6	-	3.4	15	0	82	-	33	-	-1.2	15	1	-	-	6.05	-	-	-	-
	21-END	0.0	-	0	0	19.2	11.5	15.4	-	9.1	28	0	110	-	54	-	4.2	28	0	-	-	4.47	-	-	-	-
	MONTH	57.0	98	11	8	17.8	9.7	13.8	-	3.4	15	0	281	-	121	-	-1.2	15	1	-	-	4.66	-	-	-	-
Ballinamore Co. Leitrim	1-10	32.1	-	6	6	16.0	8.6	12.3	-	6.0	1	0	79	-	28	-	1.3	1	0	-	-	2.11	-	2.0	-	-
	11-20	14.3	-	5	4	17.8	7.9	12.8	-	5.7	13	0	84	-	34	-	-0.4	13	1	-	-	4.96	-	2.5	-	-
	21-END	14.4	-	4	2	17.4	10.5	13.9	-	8.1	30	0	95	-	41	-	4.4	30	0	-	-	3.24	-	2.6	-	-
	MONTH	60.8	80	15	12	17.1	9.0	13.0	-	5.7	13	0	259	-	102	-	-0.4	13	1	-	-	3.44	-	2.4	-	63
Ardee (Boharnamoe) Co. Louth	1-10	41.3	-	7	6	17.5	7.5	12.5	-	5.7	3	0	81	-	32	-	4.9	5	0	-	-	-	-	-	-	-
	11-20	9.2	-	6	3	18.2	7.8	13.0	-	6.1	13	0	86	-	35	-	N/A	N/A	-	-	-	-	-	-	-	-
	21-END	2.0	-	1	1	19.2	10.9	15.0	-	8.7	30	0	106	-	51	-	N/A	N/A	-	-	-	-	-	-	-	-
	MONTH	52.5	-	14	10	18.3	8.7	13.5	-	5.7	3	0	273	-	119	-	N/A	N/A	-	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

JUNE 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)		MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)				
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4 °C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0 °C	% OF AVERAGE	LOWEST *GRASS-MIN*						DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE
Ballinrobe (Creagh) Co. Mayo	1-10	35.5	-	9	7	17.3	8.1	12.7	-	5.5	1	0	83	-	32	-	0.1	1	0	-	-	3.17	-	2.8	-	-
	11-20	30.7	-	6	6	17.3	8.0	12.7	-	6.6	18	0	83	-	32	-	2.3	19	0	-	-	6.27	-	2.6	-	-
	21-END	1.4	-	2	0	17.9	8.9	13.4	-	4.4	26	0	90	-	39	-	-1.3	24	2	-	-	5.27	-	2.5	-	-
	MONTH	67.6	79	17	13	17.5	8.3	12.9	-	4.4	26	0	256	-	102	-	-1.3	24	2	-	-	4.90	-	2.6	-	72
Belmullet Co. Mayo	1-10	16.3	-	4	3	15.4	9.8	12.6	-	7.8	1	0	82	-	28	-	3.5	1	0	14.3	-	2.97	-	6.0	1	-
	11-20	13.3	-	5	4	16.1	9.2	12.6	-	7.2	15	0	83	-	29	-	4.0	15	0	14.7	-	6.09	-	7.0	4	-
	21-END	2.8	-	2	1	15.7	9.2	12.4	-	5.4	24	0	80	-	28	-	0.4	25	0	16.2	-	4.72	-	5.3	0	-
	MONTH	32.4	44	11	8	15.7	9.4	12.6	-0.8	5.4	24	0	245	97	85	92	0.4	25	0	15.1	-0.6	4.59	72	6.1	5	77
Claremorris Co. Mayo	1-10	31.9	-	6	6	16.6	9.2	12.9	-	6.0	1	0	85	-	32	-	3.6	1	0	14.1	-	2.70	-	4.9	1	-
	11-20	14.9	-	7	4	17.4	8.2	12.8	-	6.1	15	0	84	-	33	-	1.0	15	0	14.7	-	5.55	-	4.8	3	-
	21-END	1.7	-	2	1	17.4	9.7	13.5	-	4.5	24	0	91	-	39	-	0.6	25	0	16.8	-	3.78	-	4.6	0	-
	MONTH	48.5	61	15	11	17.1	9.0	13.1	+0.1	4.5	24	0	261	103	103	103	0.6	25	0	15.2	+0.0	4.01	73	4.8	4	75
Glenamoy Co. Mayo	1-10	32.6	-	5	4	16.2	9.6	12.9	-	7.4	1	0	85	-	31	-	4.0	1	0	-	-	2.82	-	3.6	-	-
	11-20	19.7	-	6	3	16.8	8.4	12.6	-	5.9	15	0	82	-	30	-	4.4	17	0	-	-	5.82	-	3.6	-	-
	21-END	6.1	-	4	1	15.8	9.3	12.5	-	2.7	24	0	82	-	29	-	0.3	24	0	-	-	3.62	-	2.7	-	-
	MONTH	58.4	67	15	8	16.3	9.1	12.7	-	2.7	24	0	249	-	91	-	0.3	24	0	-	-	4.09	-	3.3	-	70
Dunsany (Grange) Co. Meath	1-10	34.2	-	6	5	16.1	8.6	12.4	-	6.9	6	0	80	-	28	-	3.5	1	0	-	-	2.73	-	-	-	-
	11-20	7.9	-	4	3	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-
	21-END	0.7	-	3	0	17.7	9.9	13.8	-	6.4	22	0	94	-	40	-	N/A	N/A	N/A	N/A	N/A	3.72	-	-	-	-
	MONTH	42.8	70	13	8	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	N/A	N/A	N/A	N/A	N/A	N/A	-	-	-	-
Clones Co. Monaghan	1-10	22.0	-	5	4	15.9	8.9	12.4	-	6.1	6	0	80	-	28	-	2.7	5	0	13.7	-	2.55	-	3.2	0	-
	11-20	8.0	-	4	4	17.7	8.8	13.2	-	6.0	13	0	88	-	36	-	3.5	15	0	14.4	-	5.26	-	3.7	3	-
	21-END	4.1	-	3	2	17.4	10.5	13.9	-	8.8	30	0	95	-	40	-	4.1	25	0	15.9	-	3.15	-	3.4	1	-
	MONTH	34.1	45	12	10	17.0	9.4	13.2	-0.0	6.0	13	0	264	102	104	99	2.7	5	0	14.7	-1.1	3.65	67	3.4	4	72
Birr Co. Offaly	1-10	39.4	-	8	6	16.7	9.7	13.2	-	7.3	1	0	88	-	34	-	3.9	1	0	14.7	-	2.99	-	2.0	0	-
	11-20	10.4	-	6	3	17.9	8.2	13.1	-	6.1	13	0	87	-	36	-	1.0	13	0	15.7	-	6.12	-	2.4	2	-
	21-END	1.7	-	2	1	18.8	11.2	15.0	-	9.6	28	0	106	-	50	-	4.6	25	0	18.5	-	3.18	-	2.0	0	-
	MONTH	51.5	95	16	10	17.8	9.7	13.8	-0.0	6.1	13	0	281	104	120	104	1.0	13	0	16.3	-0.3	4.10	69	2.1	2	72

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

JUNE 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND													
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)											
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4 °C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0 °C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	DAYS WITH GROUND FROST						MEAN DAILY	DIFFERENCE FROM AVERAGE									
Dundrum (Knockavilla) Co. Tipperary	1-10	33.1	-	6	5	16.5	8.5	12.5	-	4.9	1	0	81	-	30	-	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	12.6	-	3	2	18.1	6.7	12.4	-	5.0	17	0	80	-	32	-	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	1.9	-	2	1	19.1	11.0	15.0	-	8.0	27	0	106	-	51	-	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	47.6	-	11	8	17.9	8.7	13.3	-	4.9	1	0	267	-	114	-	N/A	N/A	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dungarvan (Carriglea) Co. Waterford	1-10	41.4	-	6	5	17.0	10.0	13.5	-	7.9	1	0	91	-	37	-	7.6	1	0	-	-	4.06	-	2.4	-	-	-	-	-	-	-	-	-	-	
	11-20	19.4	-	4	3	18.6	5.8	12.2	-	4.7	16	0	78	-	33	-	3.7	15	0	-	-	8.20	-	2.0	-	-	-	-	-	-	-	-	-	-	
	21-END	4.4	-	2	2	20.3	10.2	15.2	-	4.8	24	0	108	-	55	-	3.6	24	0	-	-	5.57	-	2.1	-	-	-	-	-	-	-	-	-	-	
	MONTH	65.2	107	12	10	18.6	8.7	13.7	-	4.7	16	0	278	-	124	-	3.6	24	0	-	-	5.94	-	2.2	-	-	-	-	-	-	-	-	-	-	76
Mullingar Co. Westmeath	1-10	27.5	-	4	4	16.1	8.9	12.5	-	6.9	4	0	81	-	29	-	4.6	4	0	13.8	-	2.70	-	3.4	0	-	-	-	-	-	-	-	-	-	
	11-20	11.4	-	6	4	17.1	8.2	12.6	-	6.0	13	0	82	-	32	-	3.3	15	0	14.6	-	6.33	-	3.5	3	-	-	-	-	-	-	-	-	-	-
	21-END	5.9	-	3	2	17.5	10.6	14.0	-	8.6	28	0	96	-	41	-	6.6	28	0	16.5	-	3.37	-	3.2	0	-	-	-	-	-	-	-	-	-	-
	MONTH	44.8	65	13	10	16.9	9.2	13.0	-0.1	6.0	13	0	259	97	101	90	3.3	15	0	14.9	-1.1	4.13	72	3.4	3	73	-	-	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	31.3	-	5	4	15.8	10.1	13.0	-	8.2	10	0	86	-	31	-	2.5	10	0	-	-	3.05	-	4.5	-	-	-	-	-	-	-	-	-	-	
	11-20	11.9	-	4	4	16.7	7.9	12.3	-	3.8	15	0	79	-	29	-	-2.2	15	2	-	-	5.94	-	3.7	-	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	19.3	11.4	15.4	-	8.0	28	0	110	-	54	-	3.2	28	0	-	-	5.14	-	2.6	-	-	-	-	-	-	-	-	-	-	
	MONTH	43.2	72	9	8	17.3	9.8	13.5	-	3.8	15	0	274	-	114	-	-2.2	15	2	-	-	4.71	-	3.6	-	-	-	-	-	-	-	-	-	-	77
Clonroche Co. Wexford	1-10	34.8	-	7	4	15.7	9.5	12.6	-	7.4	5	0	82	-	28	-	1.5	10	0	-	-	3.31	-	2.3	-	-	-	-	-	-	-	-	-	-	
	11-20	11.4	-	4	3	16.8	7.7	12.2	-	5.0	14	0	78	-	29	-	0.7	18	0	-	-	6.00	-	1.7	-	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	19.9	11.0	15.5	-	7.5	28	0	111	-	55	-	0.7	28	0	-	-	5.52	-	1.8	-	-	-	-	-	-	-	-	-	-	
	MONTH	46.2	63	11	7	17.5	9.4	13.4	-	5.0	14	0	271	-	112	-	0.7	18	0	-	-	4.94	-	1.9	-	-	-	-	-	-	-	-	-	74	
Johnstown Castle Co. Wexford	1-10	28.5	-	6	4	14.8	10.2	12.5	-	8.9	6	0	81	-	26	-	2.5	10	0	-	-	3.40	-	4.1	-	-	-	-	-	-	-	-	-	-	
	11-20	7.7	-	5	3	16.0	8.2	12.1	-	5.0	15	0	77	-	26	-	-4.0	15	1	-	-	6.69	-	3.1	-	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	18.5	11.4	14.9	-	9.0	28	0	105	-	50	-	2.0	28	0	-	-	N/A	-	3.1	-	-	-	-	-	-	-	-	-	-	
	MONTH	36.2	56	11	7	16.4	9.9	13.2	-	5.0	15	0	263	-	101	-	-4.0	15	1	-	-	N/A	-	3.5	-	-	-	-	-	-	-	-	-	N/A	
Rosslare Co. Wexford	1-10	18.0	-	7	4	14.7	10.8	12.7	-	9.6	6	0	83	-	27	-	7.1	5	0	14.7	-	3.28	-	6.0	2	-	-	-	-	-	-	-	-	-	
	11-20	9.4	-	4	3	14.9	9.2	12.0	-	5.6	15	0	76	-	24	-	2.5	14	0	15.4	-	7.21	-	4.7	3	-	-	-	-	-	-	-	-	-	
	21-END	0.0	-	0	0	17.3	12.3	14.8	-	10.9	28	0	104	-	48	-	5.8	22	0	18.7	-	5.29	-	4.7	0	-	-	-	-	-	-	-	-	-	
	MONTH	27.4	49	11	7	15.6	10.8	13.2	-0.6	5.6	15	0	264	99	99	96	2.5	14	0	16.2	-0.8	5.26	70	5.1	5	86	-	-	-	-	-	-	-	-	

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	16063
	11-20	18516
	21-end	16505
	Month	51084
Dublin Airport Co. Dublin	1-10	14558
	11-20	19019
	21-end	16328
	Month	49905
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	13305
	11-20	21622
	21-end	18435
	Month	53362
Kilkenny Co. Kilkenny	1-10	13465
	11-20	18866
	21-end	16065
	Month	48396
Belmullet Co. Mayo	1-10	13269
	11-20	19119
	21-end	16943
	Month	49331
Clones Co. Monaghan	1-10	12824
	11-20	18823
	21-end	14715
	Month	46362
Birr Co. Offaly	1-10	12272
	11-20	17905
	21-end	13476
	Month	43653

TABLE 3 POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE JUNE 1983

STATION	PERIOD	SOIL MOISTURE (mm)			
		P. E. (mm)	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	15.0	-	12	4
	11-20	16.5	9	21	-
	21-end	29.5	29	50	-
	Month	61.0	-	-	-
Kinsealy Co. Dublin	1-10	12.0	-	0	24
	11-20	21.9	14	14	-
	21-end	20.5	19	33	-
	Month	54.4	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	11.9	-	0	9
	11-20	20.8	-	0	35
	21-end	23.0	12	12	-
	Month	55.7	-	-	-
Ballinamore Co. Leitrim	1-10	18.5	-	0	14
	11-20	19.1	5	5	-
	21-end	29.3	15	20	-
	Month	66.9	-	-	-
Glenamoy Co. Mayo	1-10	17.2	-	5	15
	11-20	30.5	11	16	-
	21-end	22.1	16	32	-
	Month	69.8	-	-	-
Johnstown Castle Co. Wexford	1-10	21.1	-	8	7
	11-20	25.8	18	26	-
	21-end	42.9	43	68	-
	Month	89.8	-	-	-

- 7 -

Notes on the tables in January issue

special topic

THE COMMISSION FOR AGRICULTURAL METEOROLOGY

(continued from May)

AGROMETEOROLOGY - OBJECTIVES FOR NEXT PERIODS

The Commission placed great emphasis on the importance of regular contact with the users of meteorological information and the need to express this information in the users' language. It was considered that representatives from other disciplines could help 'package' the information directed to farmers. The participation of agricultural extension services was an essential link in the channel of two-way communication with farmers and that some training in applied agrometeorology for extension service personnel would increase the efficiency of the communication. Regular contact with the research organisations is required so that results of research can be put into practice, thereby improving the quality of production as well as the quantity and productivity in general.

A significant number of practical applications might become truly operational in the next few years, e.g. improvement in agrometeorological crop monitoring and forecasting, and the determination of economic benefits from agrometeorology. It was stressed that consistently high-quality information would be necessary to maintain the service's credibility. The Commission considered that multidisciplinary pilot projects would be required to provide convincing demonstrations of economic benefits.

The Commission identified the role of agrometeorology in developed countries, both at the national level and within CAgM. In general terms its objectives were:-

- To support agriculture at the national level, and
- To ensure continued transfer of knowledge and techniques between Members and especially to developing countries

Specific actions were defined at (a) the national level:

- (i) Development of a strategy for the identification and implementation of agrometeorological services for agriculture including the establishment of a National Committee on Agriculture composed of experts from various disciplines,
- (ii) Collaboration with agricultural authorities in the application of agrometeorological technology, especially in the fields of crop and animal production including quality and protection, economic benefits, environmental pollution, integrated pest control, and the use of renewable resources including wind and solar energy in agriculture and field work activities,
- (iii) Development and application of agro-topoclimatology simulation models to relate the results with climatological statistics,
- (vi) Use of remote sensing techniques for agricultural planning and operations under specific agricultural conditions,
- (v) Use of meteorological information for planning and operational services relating to hay drying, crop spraying and field work conditions,
- (vi) Interpretation of numerical weather forecasts for agrometeorological predictions,
- (vii) Study the impact of pollution (in particular, acid rain) on soils, crops, forests and fisheries,
- (viii) Support for development of low cost technology for application in diverse climatic regions,

(b) Within CAgM:

- (i) Exchange of experiences in research and development amongst developed countries and with developing countries, including the use of the Climate Applications Referral System (CARS),
- (ii) Transfer of suitable knowledge and techniques amongst Members and especially to developing countries to assist in solving weather and climate related agricultural problems.

T. Keane