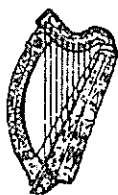


METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JULY 1982

The Weather of July

The weather was rather unsettled during the first half of the month; it was cloudy generally, especially in southern regions, and outbreaks of rain or drizzle occurred on most days but amounts of rain were small overall. Drying conditions were moderate to poor and hay making proved slow. Some spells of rain were locally heavy or thundery on the 8th and 9th and heavy rain occurred in parts of the southmidlands and the south on the 13th.

The spell from the 16th to the 31st was dominated by high pressure. The period was dry, sunny and warm or very warm throughout. Winds were mostly light northeasterly. This spell was very favourable to hay and silage making, the second cut of silage being ready by the last decade in most areas.

Monthly Amounts of Precipitation were well below normal everywhere and many stations had virtually no rainfall in the final fifteen days. Amounts for the month varied from 9% of normal at Kilkenny to 75% of normal at Mallow, most stations received less than 30% of normal rainfall. The number of wet days (i.e. days with 1.0mm or more precipitation) was less than 5 days at most stations, but reached 12 to 13 in parts of south Donegal. It was the driest July since records began in the nineteen forties or nineteen fifties at a number of stations and the driest at Phoenix Park, Dublin since records began in 1837.

Mean Monthly Temperature was well above normal in most places. Mean air temperature varied from 1.4 °C above average at Shannon Airport to 0.1 °C above normal at Rosslare. Mean soil (100mm) temperature varied from 1.8 °C above normal at Claremorris to 0.1 °C below normal at Rosslare. Accumulated degree days, threshold 10 °C, varied from 38% above average at Claremorris to 12% above average at Rosslare.

Mean Duration of Bright Sunshine was well above normal except in the south and southeast. Values varied from 164% of normal at Belmullet to 92% of normal at Rosslare. The first two decades were dullest, particularly in the south, but the average daily sunshine during the last decade exceeded 7 to 9 hours at most stations. Values of Global Solar radiation were about 15% above average at Valentia and at Dublin Airport but only about average at Birr, although sunshine was 116% of normal at the latter station.

Strong Winds were largely absent during the month.

Summary The first half of the month tended to be unsettled and dull; the second half was bright, dry and very warm. A substantial accumulation of effective blight hours occurred, particularly at coastal stations, between the 6th and 16th. Accumulated soil moisture deficits, which were mostly zero at the beginning of the month, had reached values from 50mm to 80mm by the end of the month.

Special Topic on page 8

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

July 1982

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
Carlow (Oak Park) Co. Carlow	1-10	12.2	/	8	5	18.9	11.3	15.1	/	8.5	03	0	107	51	5.0	03	0	/	/	2.42	/	N/A	/
	11-20	3.2	/	2	1	20.4	10.7	15.6	/	6.0	19	0	112	56	1.5	19	0	/	/	4.52	/	N/A	/
	21-end	0.2	/	1	0	23.1	10.3	16.7	/	7.0	30	0	135	79	3.0	29	0	/	/	7.55	/	N/A	/
	Month	15.6	/	11	6	20.9	10.8	15.9	/	6.0	19	0	354	186	1.5	19	0	/	/	4.92	/	-	/
Shannon Airport Co. Clare	1-10	9.7	-	5	2	18.4	12.7	15.6	-	10.0	02	0	112	56	6.3	02	0	16.7	-	2.92	-	5	1
	11-20	12.6	-	4	3	20.6	12.5	16.6	-	11.3	20	0	122	66	8.7	20	0	17.5	-	4.27	-	4	0
	21-end	0.0	-	0	0	23.7	13.1	18.4	-	10.4	27	0	154	92	7.2	25	0	21.7	-	8.75	-	3	0
	Month	22.3	32	9	5	21.0	12.8	16.9	+1.4	10.0	02	0	388	214	6.3	02	0	18.7	+1.3	5.42	117	4	1
Fermoy (Moore Park) Co. Cork	1-10	15.8	-	6	3	18.3	10.9	14.6	/	6.2	03	0	102	46	0.6	05	0	/	/	2.18	/	2	/
	11-20	16.4	-	2	1	20.1	11.7	15.9	/	7.4	16	0	115	59	2.0	16	0	/	/	3.43	/	2	/
	21-end	0.0	-	0	0	22.6	10.1	16.4	/	6.4	29	0	131	75	2.1	29	0	/	/	7.27	/	1	/
	Month	32.2	51	8	4	20.4	10.8	15.6	/	6.2	03	0	348	180	0.6	05	0	/	/	4.39	/	2	/
Mallow Co. Cork	1-10	26.1	-	3	2	19.0	11.5	15.3	/	6.1	03	0	109	53	4.0	05	0	/	/	1.71	/	/	/
	11-20	21.6	-	2	2	20.2	11.4	15.8	/	7.7	20	0	114	58	5.2	16	0	/	/	2.61	/	/	/
	21-end	0.0	-	0	0	22.9	10.6	16.8	/	8.6	27	0	136	80	6.8	23	0	/	/	5.10	/	/	/
	Month	47.7	75	5	4	20.8	11.2	16.0	/	6.1	03	0	359	191	4.0	05	0	/	/	3.21	/	/	/
Roche's Point Co. Cork	1-10	8.5	-	7	3	16.8	11.7	14.2	-	9.4	03	0	98	42	4.5	05	0	15.9	-	2.83	-	4	1
	11-20	16.1	-	2	2	18.0	13.0	15.5	-	10.6	16	0	111	55	6.5	20	0	16.6	-	4.14	-	4	0
	21-end	0.0	-	0	0	20.5	13.3	16.9	-	11.0	29	0	138	76	7.1	29	0	19.6	-	9.35	-	3	0
	Month	24.6	37	9	5	18.5	12.7	15.6	+0.4	9.4	03	0	347	173	4.5	05	0	17.5	+0.4	5.56	99	4	1
Glencolumbkille Co. Donegal	1-10	20.9	/	10	8	16.4	11.4	13.9	/	9.0	10	0	95	39	N/A	N/A	/	/	3.08	/	3	/	
	11-20	17.0	/	5	4	18.2	10.2	14.2	/	6.0	11	0	98	42	N/A	N/A	/	/	5.66	/	3	/	
	21-end	1.5	/	1	1	19.7	11.6	15.7	/	8.7	23	0	128	72	N/A	N/A	/	/	7.20	/	2	/	
	Month	39.4	/	16	13	18.1	11.1	14.6	/	6.0	11	0	321	153	-	N/A	/	/	5.37	/	3	/	
Glenties Co. Donegal	1-10	21.0	-	8	8	17.5	10.9	14.2	/	7.5	02	0	98	42	3.0	02	0	/	/	3.32	/	/	/
	11-20	9.1	-	5	4	19.6	9.7	14.7	/	4.5	11	0	103	47	0.0	11	0	/	/	6.20	/	/	/
	21-end	0.8	-	2	0	21.3	11.0	16.2	/	6.3	27	0	130	74	2.7	27	0	/	/	5.95	/	/	/
	Month	30.9	27	15	12	19.5	10.5	15.0	/	4.5	11	0	331	163	0.0	11	0	/	/	5.18	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

July 1982

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 (MPH)	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				
Malin Head Co. Donegal	1-10	10.0	-	7	2	16.6	11.2	13.9	-	9.2	08	0	95	39	4.7	06	0	16.2	-	4.61	-	6	4
	11-20	6.3	-	4	1	16.3	11.6	14.0	-	7.0	11	0	96	40	5.0	11	0	18.4	-	6.36	-	5	0
	21-end	0.2	-	1	0	17.0	12.3	14.6	-	9.1	28	0	113	51	7.3	28	0	20.5	-	6.86	-	4	0
	Month	16.5	16	12	3	16.6	11.7	14.2	+0.2	7.0	11	0	304	130	4.7	06	0	18.4	+2.8	5.97	131	5	4
Casement Aerodrome Co. Dublin	1-10	7.3	-	7	3	19.5	11.5	15.5	-	8.4	02	0	111	55	5.9	03	0	16.6	-	3.62	-	6	2
	11-20	1.2	-	2	0	19.2	10.9	15.1	-	5.0	19	0	107	51	1.2	19	0	17.8	-	5.76	-	4	1
	21-end	0.1	-	0	0	21.3	10.3	15.8	-	7.4	30	0	126	64	4.2	30	0	20.1	-	9.33	-	3	0
	Month	8.6	16	9	3	20.1	10.9	15.5	+0.3	5.0	19	0	344	170	1.2	19	0	18.2	-	6.34	130	4	3
Dublin Airport Co. Dublin	1-10	6.6	-	4	3	18.7	11.8	15.3	-	9.2	03	0	109	53	7.1	02	0	17.5	-	3.88	-	4	0
	11-20	1.6	-	4	0	18.9	11.6	15.3	-	9.0	19	0	109	53	3.1	19	0	18.9	-	6.26	-	4	0
	21-end	1.0	-	1	1	20.6	12.3	16.4	-	10.3	27	0	133	71	6.6	30	0	21.8	-	9.24	-	2	0
	Month	9.2	15	9	4	19.5	11.9	15.7	+0.6	9.0	19	0	351	177	3.1	19	0	19.4	+2.0	6.55	127	3	0
Kinsealy Co. Dublin	1-10	12.5	-	5	4	18.9	11.4	15.2	/	8.5	03	0	108	52	4.7	02	0	/	/	3.22	/	3	/
	11-20	1.0	-	1	1	18.7	10.7	14.7	/	5.8	19	0	103	47	-0.9	19	1	/	/	4.81	/	3	/
	21-end	0.4	-	1	0	20.0	10.9	15.5	/	7.9	30	0	126	70	2.3	30	0	/	/	8.85	/	2	/
	Month	13.9	24	7	5	19.2	11.0	15.1	/	5.8	19	0	337	169	-0.9	19	1	/	/	6.05	/	3	/
Galway Co. Galway	1-10	10.0	-	6	4	17.9	12.3	15.1	-	10.0	03	0	107	51	5.8	03	0	16.6	-	3.79	-	5	0
	11-20	4.7	-	3	2	20.1	11.5	15.8	-	9.1	18	0	114	58	7.8	16	0	18.4	-	6.34	-	4	0
	21-end	0.0	-	0	0	22.7	12.4	17.6	-	10.5	28	0	145	83	7.3	28	0	22.5	-	8.37	-	3	0
	Month	14.7	17	9	6	20.3	12.1	16.2	+1.0	9.1	18	0	366	192	5.8	03	0	19.3	-	6.24	135	4	0
Killarney (Muckross Hse) Co. Kerry	1-10	22.9	/	6	3	17.8	12.1	15.0	/	7.4	02	0	106	50	4.6	02	0	/	/	2.07	/	/	/
	11-20	6.0	/	3	3	19.3	12.4	15.9	/	9.9	20	0	115	59	7.6	20	0	/	/	3.31	/	/	/
	21-end	0.0	/	0	0	23.2	12.4	17.8	/	9.4	27	0	147	91	7.6	21	0	/	/	7.19	/	/	/
	Month	28.9	/	9	6	20.2	12.3	16.3	/	7.4	02	0	368	200	4.6	02	0	/	/	4.29	/	/	/
Cahiriveen (Valentia Obsy.) Co. Kerry	1-10	15.1	-	9	3	17.5	12.3	14.9	-	8.8	02	0	105	49	6.5	02	0	16.9	-	2.60	-	4	0
	11-20	0.1	-	0	0	19.3	13.0	16.2	-	10.2	20	0	118	62	7.7	20	0	18.6	-	5.42	-	4	0
	21-end	0.0	-	0	0	21.7	11.7	16.7	-	9.5	30	0	136	74	7.5	30	0	20.5	-	9.35	-	2	0
	Month	15.2	16	9	3	19.6	12.3	16.0	+1.0	8.8	02	0	359	185	6.5	02	0	18.7	+1.6	5.91	126	3	0

Notes on the tables in January issue

TABLE 1 (Continued)

July 1982

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
Ardfert (Liscahane) Co. Kerry	1-10	13.9	/	6	4	18.1	11.9	15.0	/	8.4	02	0	106	50	0.9	02	0	/	/	3.17	/	/	/
	11-20	0.1	/	0	0	19.8	11.4	15.6	/	6.9	20	0	112	56	1.6	20	0	/	/	4.13	/	/	/
	21-end	0.4	/	1	0	22.5	11.1	16.8	/	7.5	27	0	136	80	3.0	27	0	/	/	8.95	/	/	/
	Month	14.4	/	7	4	20.2	11.5	15.9	/	6.9	20	0	354	186	0.9	02	0	/	/	5.53	/	/	/
Lullymore Co. Kildare	1-10	9.1	-	8	3	19.0	10.8	14.9	/	6.4	03	0	105	49	1.5	05	0	/	/	2.43	/	4	/
	11-20	0.6	-	2	0	19.4	9.2	14.3	/	2.8	19	0	99	43	-1.0	19	1	/	/	5.20	/	4	/
	21-end	0.3	-	1	0	21.9	8.7	15.3	/	6.8	30	0	120	64	0.4	29	0	/	/	7.86	/	3	/
	Month	10.0	14	11	3	20.2	9.5	14.9	/	2.8	19	0	324	156	-1.0	19	1	/	/	5.25	/	4	/
Kilkenny e Co. Kilkenny	1-10	4.6	-	5	1	19.0	10.8	14.9	-	7.2	03	0	105	49	3.1	05	0	17.4	-	1.91	-	3	0
	11-20	1.2	-	2	0	20.0	10.9	15.4	-	6.2	16	0	110	54	2.5	16	0	18.8	-	4.66	-	3	0
	21-end	0.0	-	0	0	23.4	10.1	16.8	-	7.0	29	0	136	74	3.9	29	0	22.2	-	7.95	-	2	0
	Month	5.8	9	7	1	20.9	10.6	15.7	+0.4	6.2	16	0	351	177	2.5	16	0	19.6	+1.6	4.94	100	3	0
Mooncoin (Silverspring) Co. Kilkenny	1-10	16.5	/	7	4	18.6	11.3	15.0	/	6.9	06	0	106	50	2.1	06	0	/	/	2.42	/	/	/
	11-20	4.2	/	3	1	20.0	11.8	15.9	/	8.6	19	0	115	59	5.0	19	0	/	/	4.10	/	/	/
	21-end	0.0	/	0	0	22.6	10.2	16.4	/	6.2	29	0	132	76	3.1	29	0	/	/	7.71	/	/	/
	Month	20.7	/	10	5	20.5	11.1	15.8	/	6.2	29	0	353	185	2.1	06	0	/	/	4.84	/	/	/
Ballinamore Co. Leitrim	1-10	12.6	/	8	6	17.9	10.8	14.4	/	7.4	02	0	100	44	1.6	02	0	/	/	3.37	/	2	/
	11-20	7.4	/	5	3	20.3	10.2	15.3	/	5.9	19	0	109	53	1.1	19	0	/	/	5.63	/	2	/
	21-end	0.6	/	1	0	22.9	10.3	16.6	/	7.7	27	0	134	78	0.2	30	0	/	/	6.11	/	1	/
	Month	20.6	/	14	9	20.4	10.4	15.4	/	5.9	19	0	343	175	0.2	30	0	/	/	5.07	/	2	/
Ardee (Boharnamoe) Co. Louth	1-10	13.6	/	8	6	19.7	10.6	15.2	/	8.1	02	0	108	52	N/A	N/A		/	/	/	/	/	/
	11-20	1.3	/	2	1	20.4	9.4	14.9	/	4.2	19	0	105	49	N/A	N/A		/	/	/	/	/	/
	21-end	0.1	/	0	0	22.2	8.4	15.3	/	4.9	30	0	124	68	N/A	N/A		/	/	/	/	/	/
	Month	15.2	/	10	7	20.8	9.4	15.1	/	4.2	19	0	337	169	-	-		/	/	/	/	/	/
Ballinrobe (Creagh) Co. Mayo	1-10	8.3	/	6	3	18.1	10.2	14.2	/	8.1	02	0	98	42	4.9	02	0	/	/	3.29	/	/	/
	11-20	3.1	/	3	2	20.5	8.8	14.7	/	3.9	18	0	103	47	2.6	18	0	/	/	6.37	/	/	/
	21-end	0.0	/	0	0	23.1	10.6	16.9	/	7.7	27	0	138	82	7.2	27	0	/	/	6.88	/	/	/
	Month	11.4	/	9	5	20.6	9.9	15.3	/	3.9	18	0	339	171	2.6	18	0	/	/	5.56	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

July 1982

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 e Co. Mayo	1-10	20.2	-	8	5	16.7	11.3	14.0	-	9.1	10	0	96	40	5.6	10	0	16.7	-	6.02	-	6	2
	11-20	3.9	-	1	1	18.2	10.4	14.3	-	5.8	11	0	99	43	2.5	18	0	18.1	-	9.14	-	5	0
	21-end	0.0	-	0	0	19.8	11.7	15.7	-	8.7	27	0	125	63	5.5	27	0	19.8	-	8.34	-	4	0
	Month	24.1	31	9	6	18.3	11.1	14.7	+0.3	5.8	11	0	320	146	2.5	18	0	18.3	+1.9	7.85	164	5	2
Claremorris e Co. Mayo	1-10	9.8	-	7	5	18.0	10.9	14.4	-	7.0	02	0	101	45	2.8	03	0	16.0	-	3.32	-	3	0
	11-20	3.4	-	4	2	20.4	9.9	15.1	-	5.8	18	0	107	52	1.6	18	0	17.2	-	6.64	-	2	0
	21-end	0.0	-	0	0	22.7	11.4	17.1	-	8.8	27	0	139	78	4.4	27	0	20.3	-	7.30	-	1	0
	Month	13.2	16	11	7	20.4	10.8	15.6	+1.2	5.8	18	0	347	175	1.6	18	0	17.9	+1.8	5.80	142	2	0
Glenamoy Co. Mayo	1-10	26.2	-	8	8	17.2	11.4	14.3	/	8.5	10	0	99	43	6.4	10	0	/	/	4.43	/	N/A	/
	11-20	5.0	-	3	1	18.7	9.0	13.9	/	2.6	18	0	95	39	0.9	18	0	/	/	8.30	/	N/A	/
	21-end	0.0	-	0	0	20.1	10.8	15.5	/	6.4	27	0	126	70	5.6	27	0	/	/	5.84	/	N/A	/
	Month	31.2	33	11	9	18.7	10.4	14.6	/	2.6	18	0	320	152	0.9	18	0	/	/	6.18	/	-	/
Dunsany (Grange) Co. Meath	1-10	9.4	-	8	4	18.6	11.0	14.8	/	8.0	02	0	104	48	4.6	02	0	/	/	2.59	/	N/A	/
	11-20	2.1	-	3	1	19.1	9.5	14.3	/	4.2	19	0	99	43	-0.2	19	1	/	/	5.69	/	N/A	/
	21-end	0.2	-	1	0	21.1	9.7	15.4	/	6.1	29	0	125	69	2.7	30	0	/	/	7.35	/	N/A	/
	Month	11.7	16	12	5	19.6	10.1	14.9	/	4.2	19	0	328	160	-0.2	19	1	/	/	5.28	/	-	/
Clones e Co. Monaghan	1-10	9.7	-	8	4	18.5	10.9	14.7	-	7.5	02	0	103	47	4.7	02	0	15.9	-	4.12	-	4	1
	11-20	10.4	-	5	3	19.9	10.6	15.2	-	6.9	19	0	108	52	1.9	19	0	17.1	-	7.03	-	3	0
	21-end	0.3	-	1	0	21.9	10.8	16.4	-	8.2	27	0	132	70	3.5	27	0	19.0	-	7.50	-	2	0
	Month	20.4	26	14	7	20.2	10.8	15.5	+1.1	6.9	19	0	343	169	1.9	19	0	17.4	+1.0	6.26	160	3	1
Birr e Co. Offaly	1-10	10.7	-	7	2	18.7	11.5	15.1	-	7.7	03	0	107	51	4.0	03	0	16.7	-	3.14	-	3	0
	11-20	4.2	-	3	2	20.2	10.4	15.3	-	6.7	19	0	109	53	2.0	19	0	18.1	-	4.94	-	2	0
	21-end	0.0	-	0	0	23.2	11.1	17.1	-	9.2	30	0	140	78	5.0	29	0	21.5	-	7.53	-	1	0
	Month	14.9	20	10	4	20.8	11.0	15.9	+0.8	6.7	19	0	356	182	2.0	19	0	18.8	+1.4	5.28	116	2	0
	1-10		-						/									/	/		/		/
	11-20		-						/									/	/		/		/
	21-end		-						/									/	/		/		/
	Month		-						/									/	/		/		/

Notes on the tables in January issue

TABLE 1 (Continued)

July 1982

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-MEN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE
Dungarvan (Ballygagin) Co. Waterford	1-10	8.0	-	5	3	18.7	11.8	15.3	/	8.1	03	0	109	53	4.5	05	0	/	/	2.12	/	2	/
	11-20	13.3	-	1	1	19.2	12.2	15.7	/	9.0	16	0	113	57	4.9	19	0	/	/	3.65	/	2	/
	21-end	0.1	-	0	0	21.9	12.1	17.0	/	7.7	30	0	139	83	4.5	30	0	/	/	8.06	/	2	/
	Month	21.4	32	6	4	20.0	12.0	16.0	/	7.7	30	0	361	193	4.5	05	0	/	/	4.72	/	2	/
Mullingar e Co. Westmeath	1-10	11.0	-	8	4	18.4	10.8	14.6	-	7.9	02	0	102	46	5.8	02	0	16.2	-	4.09	-	4	0
	11-20	10.4	-	3	3	19.5	10.3	14.9	-	5.8	19	0	105	49	2.1	19	0	17.0	-	6.69	-	4	0
	21-end	2.9	-	1	1	22.1	11.2	16.7	-	9.5	29	0	135	73	6.7	27	0	19.7	-	8.85	-	3	0
	Month	24.3	29	12	8	20.1	10.8	15.4	+1.2	5.8	19	0	342	168	2.1	19	0	17.7	+1.0	6.62	148	4	0
J.F.K. Park Co. Wexford	1-10	16.2	/	4	4	18.2	11.3	14.8	/	7.9	05	0	104	48	N/A	N/A	/	/	1.90	/	N/A	/	
	11-20	1.3	/	2	0	19.4	12.0	15.7	/	8.2	16	0	113	57	3.1	19	0	/	/	4.12	/	N/A	/
	21-end	0.0	/	0	0	21.8	12.2	17.0	/	9.2	29	0	139	83	5.8	29	0	/	/	8.40	/	N/A	/
	Month	17.5	/	6	4	19.8	11.8	15.8	/	8.2	16	0	356	188	N/A	N/A	/	/	4.92	/	N/A	/	
Clonroche Co. Wexford	1-10	12.1	/	7	3	18.4	11.3	14.9	/	8.0	05	0	105	49	N/A	N/A	/	/	2.40	/	2	/	
	11-20	2.8	/	3	1	19.3	11.8	15.6	/	7.9	19	0	112	56	N/A	N/A	/	/	4.52	/	2	/	
	21-end	0.0	/	0	0	21.8	11.7	16.8	/	8.5	29	0	136	80	N/A	N/A	/	/	8.99	/	2	/	
	Month	14.9	/	10	4	19.9	11.6	15.8	/	7.9	19	0	353	185	N/A	N/A	/	/	5.42	/	2	/	
Johnstown Castle Co. Wexford	1-10	11.7	-	6	5	17.2	12.0	14.6	/	9.0	05	0	102	46	4.1	05	0	/	/	2.03	/	4	/
	11-20	10.9	-	3	3	17.9	12.1	15.0	/	8.6	19	0	106	50	4.6	19	0	/	/	4.98	/	3	/
	21-end	0.0	-	0	0	19.9	12.4	16.2	/	10.0	29	0	130	74	6.2	27	0	/	/	9.45	/	3	/
	Month	22.6	32	9	8	18.4	12.2	15.3	/	8.6	19	0	338	170	4.1	05	0	/	/	5.61	/	3	/
Rosslare e Co. Wexford	1-10	8.9	-	4	4	17.1	12.4	14.8	-	9.0	05	0	104	48	6.4	05	0	16.8	-	2.06	-	5	0
	11-20	14.7	-	3	3	16.8	13.0	14.9	-	10.3	16	0	105	49	8.0	16	0	16.9	-	5.27	-	7	3
	21-end	0.0	-	0	0	18.4	14.1	16.3	-	12.5	25	0	130	69	7.3	25	0	20.5	-	9.95	-	5	0
	Month	23.6	43	7	7	17.5	13.2	15.3	+0.1	9.0	05	0	339	166	6.4	05	0	18.1	-0.1	5.89	92	6	3

Notes on the tables in January issue

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	17868
	11-20	20162
	21-end	22493
	Month	60523
Dublin Airport Co. Dublin	1-10	15224
	11-20	18060
	21-end	33284
	Month	56091
Cahiriveen (Valentia Obs.) Co. Kerry	1-10	14943
	11-20	17715
	21-end	22485
	Month	55143
Kilkenny Co. Kilkenny	1-10	14206
	11-20	15963
	21-end	22395
	Month	52564
Belmullet Co. Mayo	1-10	18816
	11-20	23077
	21-end	23583
	Month	65476
Clones Co. Monaghan	1-10	16615
	11-20	19959
	21-end	22248
	Month	58822
Birr Co. Offaly	1-10	14287
	11-20	15579
	21-end	20002
	Month	49868

TABLE 3 POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE July 1982

STATION	PERIOD	P.E. (mm)		SOIL MOISTURE (mm)	
		Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	23	11	11	-
	11-20	20	17	28	-
	21-end	35	35	63	-
	Month	78	-	-	-
Kinsealy Co. Dublin	1-10	30	22	28	-
	11-20	22	17	45	-
	21-end	44	37	82	-
	Month	96	-	-	-
Cahiriveen (Valentia Obs.) Co. Kerry	1-10	13	2	2	-
	11-20	20	17	19	-
	21-end	30	30	49	-
	Month	63	-	-	-
Ballinamore Co. Leitrim	1-10	18	5	5	-
	11-20	24	17	22	-
	21-end	33	32	54	-
	Month	75	-	-	-
Glenamoy Co. Mayo	1-10	22	-	23	4
	11-20	34	30	53	-
	21-end	29	22	75	-
	Month	85	-	-	-
Johnstown Castle Co. Wexford	1-10	26	14	14	-
	11-20	24	13	27	-
	21-end	52	52	79	-
	Month	102	-	-	-

special topic

IRISH METEOROLOGICAL SOCIETY

The recently formed Irish Meteorological Society held its first meeting on 3 March 1982; a Constitution was adopted and Mr Shane Tierney, former Assistant Director of the Meteorological Service, was elected its first President. The objects of the Society are the promotion of an interest in meteorology in Ireland and the dissemination of meteorological knowledge, pure and applied. Membership is open to all who have an interest in meteorology, ranging from those whose scientific speciality is meteorology or a related area to those whose work or leisure activities lead to a desire to be well informed about weather and climate.

The membership of the Society is approximately 150, representing a broad cross-section of interests throughout the country. Agriculturists and Horticulturists in research, teaching and the Advisory Services, and many interested farmers, have welcomed the founding of the Society. It is expected that a number from this particularly weather sensitive discipline will avail of the opportunity to join. The annual membership fee is currently £6 for a Dublin based member or £3 for a country member.

The activities of the Society include an annual Guest Lecture, a series of ordinary lectures and lectures for specialized groups and the publication of a periodic bulletin. It is hoped that some meetings and seminars of the Society will be held at locations in the provinces.

RECENT MEETINGS

As well as the need for short term weather forecasts of a day or less, the modern farmer also requires forecasts up to several days in advance. Current computer based weather forecasts now allow forecasters to meet this need and useful predictions can be made for 4 to 7 days. It is little wonder then that the Society availed of the opportunity of the presence in Dublin for an important international scientific meeting of Professor Joseph Smagorinsky, Princeton University, U.S.A., who was one of a small group of world pioneers in the field; on 12 March 1982 Prof. Smagorinsky described to a meeting of the Society the beginnings of computer based forecasts and recalled with great interest the personalities of that select group.

Mr F.E. Dixon, a recent Officer-in-charge of the main weather forecast office in Dublin, delivered a lecture to the Society on 19 May entitled "Pioneer Irish Meteorologists". His talk included contributions on Robert Boyle (of Boyle's Law), Kirwan and others. The middle of the 19th century was 'the golden age' of Science in Ireland, with Rowan Hamilton at Dunsink, Lloyd in Trinity, Lord Rosse at Birr, Robinson at Armagh and others. Another Irishman who contributed to meteorology was Admiral Beaufort whose wind force scale is still widely used, especially for shipping forecasts e.g. "wind, force 4 or 5" can be heard frequently on radio.

NEXT MEETING OF THE SOCIETY

The next meeting of the Society, a day seminar, will be held at the Grand Hotel, Malahide, Co. Dublin on Sunday 12 September, 1982. The varied programme includes papers by Dr Tony Brereton, Agricultural Institute, Johnstown Castle, on the Effect of Weather on Grass Growth and a Pilot's View of Meteorology by Capt. Fintan Ryan of Aer Lingus.

Morning coffee, lunch, dinner and accommodation at specially reduced rates will be provided by the Hotel to Society members and their spouses. Details may be had from Dr. Ray Bates, Secretary, Irish Meteorological Society, C/O Meteorological Service, Glasnevin Hill, Dublin 9.