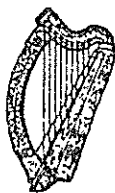


# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

DECEMBER 1981

### The Weather of December

The period from the 1st to 4th was cloudy and mild with extensive fog and patches of drizzle. A wave depression affected the southwest on the 5th after which a northwesterly airflow set in. Squally showers occurred, some heavy especially in northern areas on the 7th. Weak troughs of low pressure affected the country between the 8th and 10th and high pressure dominated the 11th and 12th. There was extensive freezing fog during these spells. Strong winds and widespread heavy falls of snow or rain occurred in all areas on the 13th, associated with a depression centred over southern areas.

A ridge of high pressure developed on the 14th and the period to the 19th was very cold and dry with general air frost and sharp to severe ground frost. Mild air in a complex frontal trough affected the country during the 19th and there was widespread heavy rain, especially in southern regions. The period from the 20th to 22nd was foggy with spells of drizzle and there was light frost at night in some places. Subsequently a cold easterly airflow was established and widespread frost became severe between the 23rd and 25th.

A strong south to southeast airflow set in during the 25th. The weather became mild with extensive rain and drizzle. Winds backed easterly on the 28th and there was widespread heavy rain on the 28th and 29th. Rain became scattered on the 30th and 31st and some frost occurred at night.

Monthly Amounts of Precipitation were well below normal except in the east, southeast and parts of the south, where the monthly total was well above normal. Amounts varied from 56% of normal at Galway to 200% of normal at Kinsealy, Co. Dublin. Much of the rainfall occurred over a few days, notably on the 13th/14th, when widespread snow occurred, and on the 19th/20th and 26th.

Mean Monthly Air Temperature was well below normal everywhere. Values varied from 3.0°C below normal at Claremorris to 2.0°C below normal at Rosslare. Soil temperature varied from 2.4°C below normal at Malin Head to 0.8°C below normal at Cork Airport. The second decade was coldest and frost was widespread from the 8th to 19th: air frost was sharp to severe, and ground frost was severe to very severe, on the 12th/13th, 17th to 19th and 24th/25th.

Mean Duration of Bright Sunshine was above normal in the north, northmidlands and in parts of the west and southwest; elsewhere it was below normal. Amounts varied from 139% of normal at Malin Head to 72% of normal at Cork Airport. The first decade was dullest except in the north and northmidlands, where the last decade was dullest.

Gales or Strong Winds occurred on the 6th/7th, 13th/14th, 19th, 25th/26th, and also from the 28th to 30th in eastern regions.

Summary The weather was cold. Rainfall was well below normal except for eastern and some southern areas, where it was well above normal. Sunshine was below normal except in northern regions.

Annual Summary March, May and September were very wet. For the fourth successive year, summer sunshine (June to September) was below normal, but the spell between June 10th and August 31st was generally dry except in the west.

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

December 1981

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 <sup>-1</sup> )	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST 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	14.3	/	4	3	6.3	2.8	4.6	/	-4.5	09	3	22	0	-7.8	09	5	/	0.68	/	/	/	
	11-20	48.0	/	5	3	5.2	-2.5	1.4	/	-8.0	12	7	2	0	-9.7	12	8	/	2.23	/	/	/	
	21-end	45.4	/	7	7	5.5	-0.4	2.6	/	-7.8	25	4	2	0	-9.6	25	7	/	1.41	/	/	/	
	Month	107.7	/	16	13	5.6	0.0	2.8	/	-8.0	12	14	26	0	-9.7	12	20	/	1.39	/	/	/	
Shannon Airport Co. Clare	1-10	17.3	-	8	6	8.4	4.3	6.3	-	-1.6	10	3	26	0	-5.6	10	4	6.6	-	0.80	-	4	2
	11-20	27.8	-	4	3	5.6	-1.0	2.3	-	-5.4	12	5	4	0	-8.2	17	6	2.4	-	2.37	-	6	3
	21-end	21.3	-	6	3	6.2	1.6	3.9	-	-4.6	24	2	8	0	-7.5	25	5	3.5	-	1.17	-	5	2
	Month	66.4	59	18	12	6.7	1.6	4.2	-1.9	-5.4	12	10	38	0	-8.2	17	15	4.2	-1.6	1.44	102	5	7
Fermoy (Moore Park) Co. Cork	1-10	14.8	-	6	3	7.3	3.3	5.3	/	-3.0	09	3	26	0	N/A	-	/	/	0.74	/	3	/	
	11-20	77.1	-	7	5	6.0	-2.2	1.9	/	-6.4	19	7	1	0	N/A	-	/	/	1.37	/	3	/	
	21-end	52.0	-	4	4	6.2	0.1	3.2	/	-4.4	25	6	4	0	N/A	-	/	/	0.67	/	3	/	
	Month	143.9	150	17	12	6.5	0.4	3.5	/	-6.4	19	16	31	0	-	-	/	/	0.92	/	3	/	
Mallow Co. Cork	1-10	17.5	-	7	3	7.4	3.8	5.6	/	-1.4	09	2	21	0	-5.0	09	6	/	0.55	/	/	/	
	11-20	76.7	-	6	5	6.0	-2.0	2.0	/	-7.5	18	7	3	0	-12.2	18	7	/	0.91	/	/	/	
	21-end	53.0	-	4	4	6.2	-1.1	2.6	/	-8.0	24	7	0	0	-8.0	24	7	/	0.72	/	/	/	
	Month	147.2	119	17	12	6.5	0.2	3.4	/	-8.0	24	16	24	0	-12.2	18	20	/	0.73	/	/	/	
Roche's Point Co. Cork	1-10	8.5	-	5	3	8.6	4.5	6.6	-	0.4	09	0	25	0	-2.9	10	3	7.1	-	1.04	-	5	3
	11-20	55.5	-	4	3	6.9	1.5	4.2	-	-2.0	12	4	10	0	-5.4	19	6	4.3	-	1.80	-	8	5
	21-end	31.3	-	5	4	7.3	2.1	4.7	-	-1.2	24	1	11	0	-4.1	24	7	4.9	-	1.98	-	5	4
	Month	95.3	91	14	10	7.6	2.7	5.1	-2.2	-2.0	12	5	46	0	-5.4	19	16	5.5	-1.2	1.62	98	6	12
Glencolumbkille Co. Donegal	1-10	35.4	/	9	8	6.8	4.0	5.4	/	-3.2	10	3	23	0	-6.0	10	3	/	0.60	/	4	/	
	11-20	37.2	/	5	4	5.2	-0.9	2.2	/	-3.8	18	6	2	0	-9.7	18	9	/	1.93	/	4	/	
	21-end	47.6	/	8	5	5.4	0.8	3.1	/	-4.5	24	3	2	0	-17.7	24	8	/	0.85	/	5	/	
	Month	120.2	/	22	17	5.8	1.3	3.6	/	-4.5	24	12	27	0	-17.7	24	20	/	1.12	/	4	/	
Glenties Co. Donegal	1-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-end	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Notes on the tables in January issue

TABLE 1 (Continued)

December 1981

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 <sup>-1</sup> )	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	36.1	-	10	9	7.5	4.1	5.8	-	-3.8	10	1	23	0	-5.0	10	3	5.8	-	1.12	-	7	4
	11-20	21.7	-	4	2	4.5	-1.4	1.6	-	-4.5	11	7	1	0	-8.6	11	9	0.9	-	2.27	-	7	6
	21-end	15.7	-	5	5	5.4	1.7	3.5	-	-3.0	25	4	5	0	-6.2	23	5	2.7	-	0.78	-	8	7
	Month	73.5	61	19	16	5.8	1.5	3.6	-2.8	-4.5	11	12	29	0	-8.6	11	17	3.1	-2.4	1.37	139	7	17
Casement Aerodrome Co. Dublin	1-10	20.2	-	4	2	6.4	2.0	4.2	-	-3.9	08	3	14	0	-7.0	10	3	5.2	-	0.79	-	5	2
	11-20	28.1	-	4	4	4.4	-3.0	0.7	-	-9.7	12	7	1	0	-11.3	12	9	1.3	-	1.91	-	5	4
	21-end	51.1	-	7	7	5.4	0.9	3.2	-	-7.6	25	2	4	0	-11.3	25	6	2.9	-	1.43	-	6	4
	Month	99.4	129	15	13	5.4	0.0	2.7	-2.6	-9.7	12	12	19	0	-11.3	25	18	3.1	-	1.38	91	5	10
Dublin Airport e Co. Dublin	1-10	26.6	-	4	2	6.4	2.1	4.2	-	-4.3	10	3	13	0	-4.1	08	3	5.2	-	1.53	-	5	2
	11-20	47.7	-	6	5	4.5	-1.2	1.6	-	-6.4	12	6	2	0	-10.1	13	9	1.5	-	1.78	-	5	4
	21-end	58.7	-	9	6	5.6	1.7	3.6	-	-4.6	25	2	4	0	-10.7	25	6	3.1	-	1.05	-	6	4
	Month	133.0	173	19	13	5.5	0.9	3.2	-2.6	-6.4	12	11	19	0	-10.7	25	18	3.3	-1.5	1.44	87	5	10
Kinsealy Co. Dublin	1-10	24.1	-	4	2	6.2	2.4	4.3	/	-4.5	10	3	14	0	-6.3	10	5	/	/	1.37	/	4	/
	11-20	51.2	-	6	6	5.3	-1.7	1.8	/	-4.0	12	8	2	0	-6.4	12	9	/	/	1.52	/	5	/
	21-end	70.6	-	7	6	6.0	1.4	3.7	/	-3.8	26	2	5	0	-8.0	25	5	/	/	1.00	/	6	/
	Month	145.9	200	17	14	5.9	0.7	3.3	/	-4.5	10	13	21	0	-8.0	25	19	/	/	1.29	/	5	/
Galway Co. Galway	1-10	13.8	-	5	4	7.9	3.7	5.8	-	-3.1	09	3	25	0	-7.1	09	4	6.3	-	0.68	-	3	2
	11-20	31.4	-	5	4	4.3	-1.9	1.2	-	-6.5	12	8	3	0	-7.7	17	9	1.7	-	1.97	-	4	3
	21-end	25.0	-	6	3	5.7	0.6	3.1	-	-5.9	24	3	4	0	-9.0	24	6	3.0	-	0.91	-	4	2
	Month	70.2	56	16	11	6.0	0.8	3.4	-2.8	-6.5	12	14	32	0	-9.0	24	19	3.7	-	1.18	86	4	7
Killarney (Muckross Hse) Co. Kerry	1-10	42.3	/	8	5	8.1	4.3	6.2	/	0.1	09	0	30	0	-1.9	09	3	/	/	0.09	/	/	/
	11-20	90.5	/	7	3	6.9	-1.6	2.7	/	-6.5	18	7	10	0	-10.9	18	8	/	/	0.75	/	/	/
	21-end	53.9	/	6	5	7.7	0.5	4.1	/	-4.5	25	5	5	0	-8.6	24	9	/	/	0.55	/	/	/
	Month	186.7	/	21	13	7.6	1.0	4.3	/	-6.5	18	12	45	0	-10.9	18	20	/	/	0.46	/	/	/
Cahirciveen e (Valentia Obay.) Co. Kerry	1-10	30.2	-	7	5	9.7	5.1	7.4	-	0.4	09	0	32	0	-1.2	09	1	7.6	-	0.44	-	5	5
	11-20	73.5	-	5	4	7.8	1.1	4.5	-	-3.0	12	5	13	0	-8.4	18	6	3.9	-	1.84	-	6	5
	21-end	44.7	-	8	6	8.6	1.4	5.0	-	-1.9	24	4	14	0	-5.1	24	8	4.3	-	2.20	-	5	5
	Month	148.4	93	20	15	8.7	2.5	5.6	-2.2	-3.0	12	9	59	0	-8.4	18	15	5.2	-1.7	1.52	116	5	15

Notes on the tables in January issue

TABLE 1 (Continued)

December 1981

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 <sup>-1</sup> )	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																		
Tralee Lisdara Co. Kerry	1-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
	11-20	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/			
	21-end	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
	Month	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
Bullymore Co. Kildare	1-10	20.4	-	8	6	5.5	1.9	3.7	/	-5.3	09	3	19	0	-8.2	09	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/		
	11-20	37.2	-	5	4	4.1	-3.1	0.5	/	-11.5	12	7	2	0	-12.6	12	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	21-end	30.1	-	9	7	4.7	-0.9	1.9	/	-7.5	25	5	1	0	-12.9	25	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	87.7	99	22	17	4.8	-0.7	2.1	/	-11.5	12	15	22	0	-12.9	25	21	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Kilkenny Co. Kilkenny	1-10	12.6	-	4	1	7.4	3.3	5.3	-	-4.4	09	3	21	0	-10.2	09	4	5.8	-	0.65	-	3	1	/	/	/	/	/	/	/	/	/	/	/	/		
	11-20	71.6	-	4	3	4.6	-2.8	0.9	-	-8.8	12	7	1	0	-12.6	12	9	0.8	-	2.18	-	4	3	/	/	/	/	/	/	/	/	/	/	/	/	/	
	21-end	50.3	-	8	6	5.8	0.9	3.3	-	-6.1	25	3	6	0	-11.8	25	7	3.0	-	1.13	-	3	2	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Month	134.5	151	16	10	5.9	0.5	3.2	-2.1	-8.8	12	13	28	0	-12.6	12	20	3.2	-1.4	1.31	86	3	6	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Mooncoin (Silverspring) Co. Kilkenny	1-10	7.1	-	5	1	7.0	2.9	5.0	/	-4.1	09	2	26	0	-10.2	09	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	11-20	70.6	-	5	3	6.3	-2.8	1.8	/	-7.6	12	7	1	0	-12.0	12	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	73.7	-	6	6	6.0	0.1	3.1	/	-6.6	26	4	2	0	-13.2	26	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	151.4	147	16	10	6.4	0.1	3.3	/	-7.6	12	13	29	0	-13.2	26	25	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Ballinamore Co. Leitrim	1-10	12.2	-	7	4	7.3	2.3	4.8	/	-5.9	10	3	19	0	N/A	-	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	11-20	57.5	-	6	6	3.4	-4.0	-0.3	/	-10.9	12	8	0	0	N/A	-	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	21-end	26.5	-	8	7	4.4	-0.4	2.0	/	-9.1	25	4	2	0	N/A	-	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	96.2	66	21	17	5.0	-0.7	2.2	/	-10.9	12	15	21	0	-	-	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Ardee (Boharnamoe) Co. Louth	1-10	13.3	/	4	3	6.3	1.8	4.1	/	-5.7	10	3	17	0	-6.5	10	5	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	11-20	36.3	/	5	5	4.4	-5.4	-0.5	/	-10.4	12	9	0	0	-16.2	13	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	21-end	66.2	/	6	6	5.4	0.1	2.8	/	-10.5	25	3	0	0	-14.5	25	11	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	Month	115.8	/	15	14	5.4	-1.1	2.2	/	-10.5	25	15	17	0	-16.2	13	26	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Ballinrobe (Creagh) Co. Mayo	1-10	13.9	-	7	3	8.0	2.0	5.0	/	-5.0	09	3	24	0	-7.6	09	3	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	
	11-20	51.8	-	6	4	4.9	-3.2	0.9	/	-8.7	18	8	0	0	-10.9	18	10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	26.4	-	7	4	5.4	-1.8	1.8	/	-8.2	24	6	0	0	-10.2	24	9	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	92.1	64	20	11	6.1	-1.0	2.6	/	-8.7	18	17	24	0	-10.9	18	22	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

December 1981

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	16.8	-	8	4	7.9	4.0	6.0	-	-2.7	10	3	26	0	-7.0	10	3	7.1	-	0.17	-	4	0
	11-20	42.4	-	6	5	5.3	-1.0	2.2	-	-5.2	12	5	4	0	-9.6	19	9	2.8	-	2.86	-	5	4
	21-end	28.2	-	8	7	5.9	1.5	3.7	-	-3.0	24	3	5	0	-7.5	25	5	3.6	-	1.20	-	6	3
	Month	87.4	67	22	16	6.4	1.5	4.0	-2.8	-5.2	12	11	35	0	-9.6	19	17	4.5	-1.6	1.40	126	5	7
Claremorris e Co. Mayo	1-10	18.5	-	4	2	6.8	1.9	4.3	-	-5.5	09	3	17	0	-11.6	09	5	5.8	-	0.36	-	3	2
	11-20	39.4	-	4	4	3.3	-3.1	0.1	-	-8.3	12	7	1	0	-10.9	18	10	1.0	-	1.90	-	4	3
	21-end	20.6	-	6	4	4.7	-0.3	2.2	-	-7.6	24	5	3	0	-11.0	24	7	2.3	-	0.75	-	4	3
	Month	78.5	61	14	10	4.9	-0.5	2.2	-3.0	-8.3	12	15	21	0	-11.6	09	22	3.0	-1.7	1.00	78	4	8
Glenamoy Co. Mayo	1-10	22.8	-	7	6	7.0	3.4	5.2	/	-4.4	10	3	26	0	-7.6	09	3	/	/	0.18	/	/	/
	11-20	45.6	-	5	4	5.2	-3.2	1.0	/	-7.5	18	8	1	0	-9.5	18	8	/	/	2.06	/	/	/
	21-end	35.7	-	7	5	5.8	-0.1	2.9	/	-5.7	24	4	3	0	-7.6	24	7	/	/	0.76	/	/	/
	Month	104.1	65	19	15	6.0	0.0	3.0	/	-7.5	18	15	30	0	-9.5	18	18	/	/	0.99	/	/	/
Dunsany (Grange) Co. Meath	1-10	20.0	-	6	3	5.2	1.4	3.3	/	-5.0	09	3	14	0	-6.5	08	6	/	/	0.76	/	/	/
	11-20	24.6	-	4	4	4.2	-4.0	0.1	/	-12.9	12	6	0	0	-13.4	19	9	/	/	2.20	/	/	/
	21-end	37.0	-	8	7	4.2	-0.3	2.0	/	-8.1	25	4	2	0	-14.0	25	5	/	/	0.89	/	/	/
	Month	81.6	86	18	14	4.5	-0.9	1.8	/	-12.9	12	13	16	0	-14.0	25	20	/	/	1.24	/	/	/
Clones e Co. Monaghan	1-10	11.7	-	6	3	6.2	2.2	4.2	-	-5.6	10	3	16	0	-7.4	10	3	5.7	-	1.50	-	3	2
	11-20	29.8	-	5	3	2.5	-4.0	-0.7	-	-9.6	12	9	2	0	-15.9	12	9	1.4	-	2.27	-	3	4
	21-end	21.5	-	6	6	4.5	0.3	2.4	-	-7.1	25	4	3	0	-13.0	25	4	2.4	-	0.57	-	4	2
	Month	63.0	65	17	12	4.4	-0.5	2.0	-2.8	-9.6	12	16	21	0	-15.9	12	16	3.1	-1.3	1.42	122	3	8
Birr e Co. Offaly	1-10	6.8	-	5	1	7.4	2.4	4.9	-	-4.5	09	3	17	0	-10.1	09	5	5.8	-	0.40	-	3	2
	11-20	20.0	-	4	3	4.2	-2.7	0.8	-	-8.6	12	7	1	0	-12.0	19	10	1.4	-	2.42	-	3	3
	21-end	33.3	-	6	5	5.2	0.5	2.8	-	-6.5	24	3	5	0	-12.6	25	7	2.9	-	1.09	-	3	2
	Month	60.1	68	15	9	5.6	0.1	2.8	-2.5	-8.6	12	13	23	0	-12.6	25	22	3.3	-1.6	1.30	98	3	7
Thurles Co. Tipperary	1-10		-																				
	11-20		-																				
	21-end		-																				
	Month		-																				

Notes on the tables in January issue

TABLE 1 (Continued)

December 1981

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 <sup>-1</sup> )	DAYS WITH GALE GUSTS	
						MEAN MAX.	MEAN MTF	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
Dungarvar (Ballygagin) Co. Waterford	1-10	7.6	-	5	3	7.5	3.1	5.3	/	-1.9	09	2	24	0	-7.3	10	5	/	/	0.79	/	/	/
	11-20	80.0	-	7	6	6.8	-1.4	2.7	/	-5.4	12	7	1	0	-10.0	19	9	/	/	2.21	/	/	/
	21-end	69.5	-	4	4	6.5	1.0	3.8	/	-4.0	25	3	2	0	-9.6	25	4	/	/	1.25	/	/	/
	Month	157.1	135	16	13	6.9	0.9	3.9	/	-5.4	12	12	27	0	-10.0	19	18	/	/	1.12	/	/	/
Mullingar Co. Westmeath	1-10	20.9	-	6	5	6.1	1.4	3.7	-	-7.9	09	3	14	0	-7.4	09	3	5.6	-	1.15	-	3	1
	11-20	17.7	-	6	4	2.9	-4.4	-0.8	-	-12.4	12	8	0	0	-12.9	12	10	1.1	-	2.94	-	4	4
	21-end	26.6	-	7	5	4.6	0.0	2.3	-	-8.7	25	4	4	0	-10.4	25	6	2.5	-	1.08	-	5	2
	Month	65.2	64	19	14	4.5	-1.0	1.8	-2.9	-12.4	12	15	18	0	-12.9	12	19	3.1	-1.3	1.70	117	4	7
Campile (Ballyroan) Co. Wexford	1-10	7.7	-	2	1	7.0	2.9	5.0	/	-3.3	09	3	19	0	-8.2	09	6	/	/	0.60	/	/	/
	11-20	59.6	-	5	4	6.2	-0.7	2.8	/	-5.4	12	4	2	0	-9.8	12	10	/	/	2.00	/	/	/
	21-end	84.9	-	7	5	5.8	1.1	3.5	/	-4.2	25	3	2	0	-9.4	25	6	/	/	1.20	/	/	/
	Month	152.2	141	14	10	6.3	1.1	3.7	/	-5.4	12	10	23	0	-9.8	12	22	/	/	1.26	/	/	/
Clourcoke Co. Wexford	1-10	16.2	-	4	1	5.8	1.8	3.8	/	-6.2	10	3	18	0	-10.7	10	6	/	/	0.74	/	4	/
	11-20	91.1	-	5	4	5.4	-1.9	1.8	/	-6.7	12	6	1	0	-12.9	12	10	/	/	1.38	/	2	/
	21-end	76.1	-	7	6	5.4	1.3	3.4	/	-5.4	25	3	1	0	-11.5	25	6	/	/	1.02	/	3	/
	Month	183.4	154	16	11	5.6	0.4	3.0	/	-6.7	12	12	20	0	-12.9	12	22	/	/	1.05	/	3	/
Johnstown Castle Co. Wexford	1-10	8.1	-	5	1	6.8	2.6	4.7	/	-3.5	10	2	24	0	-8.7	10	6	/	/	1.02	/	3	/
	11-20	56.1	-	5	3	6.2	-3.2	1.5	/	-9.1	13	7	6	0	-10.2	13	10	/	/	1.91	/	5	/
	21-end	76.0	-	6	6	6.2	1.6	3.9	/	-3.0	25	3	11	0	-6.6	25	8	/	/	1.41	/	5	/
	Month	140.2	127	16	10	6.4	0.4	3.4	/	-9.1	13	12	41	0	-10.2	13	24	/	/	1.45	/	4	/
Rosslare Co. Wexford	1-10	6.2	-	3	2	8.1	3.4	5.8	-	-2.7	10	2	22	0	-4.8	10	2	5.8	-	1.11	-	4	3
	11-20	60.8	-	4	4	6.6	2.1	4.4	-	-0.5	12	2	7	0	-8.3	19	8	3.1	-	1.96	-	7	6
	21-end	63.0	-	7	6	7.1	3.0	5.1	-	-1.7	24	2	13	0	-8.7	25	8	4.6	-	1.53	-	6	5
	Month	130.0	129	14	12	7.3	2.9	5.1	-2.0	-2.7	10	6	42	0	-8.7	25	18	4.5	-1.6	1.53	82	6	14

Notes on the tables in January issue

TABLE 2

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

December 1981

STATION	PERIOD	SOLAR RADIATION	P.E. (mm)	SOIL MOISTURE (mm)		
		Amount Joule/cm <sup>2</sup>	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10		0	-	0	14
	11-20		6	-	0	42
	21-end	-	-3	-	0	48
	Month		3	-	-	-
Kinsealy* Co. Dublin	1-10	1781	-6	-	0	11
	11-20	1900	-2	-	0	31
	21-end	993	-3	-	0	48
	Month	4674	-11	-	0	-
Cahircoiveen e (Valentia Obsy.) Co. Kerry	1-10	1984	3	-	0	27
	11-20	2326	2	-	0	68
	21-end	2531	0	-	0	48
	Month	6841	5	-	-	-
Kilkenny e Co. Kilkenny	1-10	2005				
	11-20	2158	-	-	-	-
	21-end	1837	-	-	-	-
	Month	6000				
Ballinamore Co. Leitrim	1-10		-3	-	0	15
	11-20		N/A	N/A	N/A	N/A
	21-end	-	-2	-	0	28
	Month		-	-	-	-
Glenamoy/ Co. Mayo	1-10		-1	-	0	24
	11-20	-	-3	-	0	48
	21-end		-4	-	0	39
	Month		-8	-	-	-
Birr e Co. Offaly	1-10	1817				
	11-20	2352	-	-	-	-
	21-end	2048	-	-	-	-
	Month	6217				
Johnstown Castle Co. Wexford	1-10		1	-	0	7
	11-20		6	-	0	50
	21-end	-	4	-	0	72
	Month		11	-	-	-

\*, /, See notes in January issue.