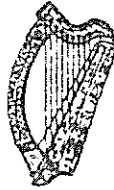


METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JANUARY 1981

The Weather of January

A strong west to northwest airflow prevailed from the 1st to 3rd. The spell was generally showery but rain on the 2nd was prolonged and heavy in many areas, especially in northern counties. As the wind moderated airfrost developed in some places on the 4th and became widespread and sharp with severe ground frost on the 5th. With the onset of southwesterly winds temperatures returned to above normal and there were outbreaks of rain, heavy in western and northern counties, from the 6th to 8th.

A north to northeast airflow set in on the 9th and 10th, but for much of the period from 11th to 21st the dominant airflow was west to northwest, strong and gusty at times. There were frequent outbreaks of rain or showers, some heavy; showers were wintry on the 15th and thunderstorms developed on the 16th. While daily maximum temperatures rose above normal on most days, ground frost occurred frequently in this spell and there was airfrost on a few occasions in some places.

As high pressure conditions prevailed for the remainder of the month rainfall amounts were nil or small at most stations. In the western and northern half of the country however, heavy rain occurred on the 25th where a frontal wave became slow moving. This spell was also generally very mild.

Monthly Amounts of Precipitation were well below normal except in northern and northwestern counties. Amounts were less than 50% of normal in eastern and southern counties and less than 25% of normal in the southeast. In western and most midland counties amounts ranged between 50% and 75% of normal but in northern counties amounts ranged from 100% of normal at a maximum of 146% at Malin Head. The second decade was wettest everywhere. The number of raindays in the southeast was well below average.

Mean Monthly Air Temperature exceeded 2°C above normal at most inland stations, reflecting the exceptional mildness, although ground frost occurred frequently in the second decade. Sharp airfrost developed on the 5th. Mean soil temperatures (100 mm) were also above normal by some 1.5°C , values exceeding 6.0°C from the 23rd onwards.

Mean Duration of Bright Sunshine was well below normal at most stations except in the east and southeast, ranging from 33% of normal at Belmullet to 93% of normal at Dublin Airport. Despite high pressure conditions, the 3rd decade was duller in most areas except the east and southeast, where the decade proved to be the brightest.

Strong Gale Gusts (over 41 Kts) were widespread from the 1st to 3rd, 12th to 14th and from 16th to 18th.

Summary. The month was very mild and dull, especially in the west and north. Rainfall amounts were small in the south and east but near normal in the northwest and well above normal in the extreme north.

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

January, 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 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	1.0	/	1	1	8.5	2.7	5.6	/	-2.5	05	2	12	0	-6.6	05	4	/	/	1.50	/	5	/
	11-20	30.2	/	8	8	8.6	1.5	5.1	/	-6.8	11	2	14	0	-3.2	11	4	/	/	1.32	/	6	/
	21-end	0.4	/	1	0	10.1	5.6	7.9	/	3.8	31	0	38	0	1.0	24	0	/	/	1.80	/	3	/
	Month	31.6	/	10	9	9.1	3.4	6.3	/	-2.5	05	4	64	0	-6.6	05	8	/	/	1.55	/	5	/
Shannon Airport Co. Clare	1-10	10.8	-	6	3	8.9	4.7	6.8	-	1.1	10	0	25	0	-2.2	05	3	6.1	-	1.53	-	5	4
	11-20	51.1	-	10	9	9.0	3.8	6.4	-	0.4	13	0	21	0	-4.5	13	4	5.4	-	1.07	-	7	6
	21-end	5.2	-	3	2	10.2	6.6	8.4	-	3.1	31	0	44	0	-2.8	31	3	7.5	-	1.51	-	4	0
	Month	67.1	71	19	14	9.4	5.1	7.2	+2.1	0.4	13	0	90	0	-4.5	13	10	6.6	+1.9	1.37	80	5	10
Fermoy (Moore Park) Co. Cork	1-10	2.6	-	4	1	8.4	2.9	5.7	/	-1.7	05	1	17	0	-2.9	05	3	/	/	1.32	/	4	/
	11-20	45.1	-	9	7	9.7	1.8	5.8	/	-2.9	13	2	15	0	-3.8	13	6	/	/	0.88	/	5	/
	21-end	0.3	-	1	0	10.1	5.7	7.9	/	2.4	26	0	39	0	0.7	26	0	/	/	1.15	/	2	/
	Month	48.0	43	14	8	9.4	3.5	6.5	/	-2.9	13	3	71	0	-3.8	13	9	/	/	1.12	/	4	/
Mallow Co. Cork	1-10	5.0	-	6	2	8.6	3.6	6.1	/	-0.3	04	1	15	0	-2.0	04	3	/	/	1.36	/	/	/
	11-20	45.5	-	8	6	9.7	2.3	6.0	/	-3.5	13	2	14	0	-5.0	13	4	/	/	1.01	/	/	/
	21-end	1.2	-	3	0	10.4	5.3	7.9	/	2.8	25	0	37	0	-0.5	24	2	/	/	1.15	/	/	/
	Month	51.7	42	17	8	9.6	3.8	6.7	/	-3.5	13	3	66	0	-5.0	13	9	/	/	1.17	/	/	/
Roche's Point Co. Cork	1-10	6.2	-	5	3	9.0	5.0	7.0	-	1.5	10	0	28	0	-0.2	10	1	6.5	-	2.15	-	6	4
	11-20	26.0	-	6	6	9.5	4.4	7.0	-	0.3	13	0	27	0	-3.3	13	2	5.9	-	1.69	-	8	8
	21-end	0.3	-	1	0	10.1	7.7	8.9	-	6.3	25	0	49	2	3.5	25	0	8.1	-	1.12	-	3	0
	Month	32.5	34	12	9	9.6	5.8	7.7	+1.2	0.3	13	0	104	2	-3.3	13	3	6.9	+1.0	1.64	82	6	12
Glencolumbkille Co. Donegal	1-10	33.9	/	10	7	7.6	4.3	6.0	/	0.0	05	0	20	0	-6.5	05	5	/	/	0.50	/	6	/
	11-20	57.4	/	9	9	8.9	3.2	6.1	/	1.3	13	0	17	0	-4.0	13	8	/	/	0.60	/	7	/
	21-end	23.7	/	7	5	9.7	6.8	8.3	/	4.3	24	0	34	0	-0.5	24	2	/	/	0.45	/	4	/
	Month	115.0	/	26	21	8.7	4.8	6.8	/	0.0	05	0	71	0	-6.5	05	15	/	/	0.52	/	6	/
Glenties Co. Donegal	1-10	44.5	-	9	7	8.8	2.6	5.7	/	-2.0	05	2	16	0	-6.5	04	5	/	/	0.72	/	/	/
	11-20	80.1	-	10	10	8.1	1.4	4.8	/	-0.5	13	1	6	0	-4.0	13	6	/	/	0.38	/	/	/
	21-end	25.4	-	5	5	9.8	5.5	7.7	/	2.5	24	0	37	0	-3.0	24	2	/	/	0.39	/	/	/
	Month	150.0	99	24	22	8.9	3.3	6.1	/	-2.0	05	3	59	0	-6.5	04	13	/	/	0.50	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

January, 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 (m.p.h.)	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-FLX."	DATE	DAYS WITH GROUND FROST	MEAN DAILY					DIFFERENCE FROM AVERAGE
Malin Head Co. Donegal	1-10	48.6	-	8	6	8.8	4.2	6.5	-	1.0	05	0	22	0	-2.0	05	4	5.6	-	0.67	-	9	9
	11-20	84.7	-	10	10	8.1	2.3	5.2	-	0.5	16	0	9	0	-2.0	16	4	4.4	-	0.29	-	9	9
	21-end	16.8	-	7	7	9.6	7.1	8.3	-	5.3	24	0	43	0	0.5	28	0	7.3	-	0.48	-	7	4
	Month	150.1	146	25	23	8.9	4.6	6.8	+1.6	0.5	16	0	74	0	-2.0	16	8	5.8	+1.3	0.48	36	8	22
Casement Aerodrome Co. Dublin	1-10	2.7	-	3	2	7.9	2.6	5.3	-	-3.1	05	3	17	0	-7.1	05	4	4.7	-	1.68	-	8	5
	11-20	23.7	-	8	6	7.6	0.7	4.2	-	-2.8	13	3	5	0	-6.5	13	7	3.5	-	0.79	-	8	7
	21-end	4.2	-	3	1	10.3	5.3	7.8	-	-0.1	28	1	37	0	-2.5	28	2	6.4	-	2.35	-	5	0
	Month	30.6	47	14	9	8.6	2.9	5.8	+1.6	-3.1	05	7	59	0	-7.1	05	13	5.0	-	1.63	80	7	12
Dublin Airport Co. Dublin	1-10	3.4	-	4	1	8.0	3.4	5.7	-	-2.2	05	1	20	0	-4.0	05	5	5.0	-	2.09	-	7	3
	11-20	25.8	-	8	5	7.7	1.4	4.6	-	-1.3	13	2	6	0	-3.9	13	6	3.7	-	1.30	-	8	6
	21-end	3.6	-	1	1	10.1	5.9	8.0	-	3.5	28	0	40	1	-1.3	28	1	6.7	-	2.29	-	4	0
	Month	32.8	47	13	7	8.6	3.7	6.2	+1.5	-2.2	05	3	66	1	-4.0	05	12	5.2	+1.1	1.91	93	6	9
Kinsealy Co. Dublin	1-10	3.4	-	4	1	8.3	3.1	5.7	/	-2.2	05	1	19	0	-5.6	05	4	/	/	1.90	/	6	/
	11-20	25.9	-	8	8	8.4	1.4	4.9	/	-1.7	13	2	8	0	-4.4	13	6	/	/	1.21	/	7	/
	21-end	4.0	-	3	1	3.9	5.1	7.5	/	2.6	28	0	35	0	-1.8	28	4	/	/	2.05	/	3	/
	Month	33.3	50	15	10	8.9	3.2	6.1	/	-2.2	05	3	62	0	-5.6	05	14	/	/	1.73	/	5	/
Galway Co. Galway	1-10	10.7	-	5	3	8.7	4.1	6.4	-	-0.2	05	1	22	0	-3.2	05	4	5.8	-	1.55	-	6	4
	11-20	43.0	-	10	8	8.9	2.9	5.9	-	0.3	13	0	15	0	-3.0	13	4	5.2	-	1.28	-	7	6
	21-end	2.3	-	5	0	9.6	6.8	8.2	-	4.0	24	0	42	0	-1.3	24	1	7.6	-	1.17	-	4	1
	Month	56.0	53	20	11	9.1	4.7	6.9	+1.8	-0.2	05	1	79	0	-3.2	05	9	6.2	-	1.33	70	6	11
Killarney (Muckross Hse) Co. Kerry	1-10	17.4	/	6	5	8.9	4.7	6.8	/	0.2	10	0	33	0	-3.6	10	4	/	/	0.71	/	/	/
	11-20	52.8	/	10	8	11.2	4.0	7.6	/	-0.3	11	1	34	1	-4.5	11	4	/	/	0.25	/	/	/
	21-end	0.4	/	1	0	10.7	6.8	8.8	/	4.8	25	0	48	2	-1.0	24	2	/	/	2.45	/	/	/
	Month	70.6	/	17	13	10.3	5.2	7.8	/	-0.3	11	1	115	3	-4.5	11	10	/	/	1.18	/	/	/
Cahiriveen (Valentia Obay.) Co. Kerry	1-10	17.7	-	8	5	9.7	5.7	7.7	-	2.5	04	0	3	0	0.1	04	0	7.5	-	1.94	-	6	5
	11-20	36.7	-	9	7	10.0	5.7	7.9	-	1.1	11	0	34	0	-1.4	11	1	6.9	-	0.67	-	8	7
	21-end	4.6	-	4	2	10.8	8.0	9.4	-	5.1	24	0	55	2	2.7	24	0	8.7	-	0.51	-	5	2
	Month	59.2	37	21	14	10.2	6.5	8.4	+1.4	1.1	11	0	122	2	-1.4	11	1	7.7	-	0.73	46	6	14

Notes to the Tables in January Issue

TABLE 1 (Continued)

January, 1981

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C													BRIGHT SHINING		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		
Tralee Lisdara Co. Kerry	1-10 11-20 21-end Month	/	/	/	/																				
Lullymore Co. Kildare	1-10 11-20 21-end Month	7.4 41.4 6.2 55.0	- - - 70	5 10 3 18	4 8 1 13	7.2 8.0 9.1 8.1	1.4 0.5 4.9 2.4	4.3 4.3 7.0 5.3		-4.0 05 -1.8 13 1.4 25 -4.0 05	4 4 0 8	12 8 34 54	0 0 0 0	-10.2 05 -6.3 13 -3.0 25 -10.2 05	5 8 3 16							1.20 0.67 1.09 0.99	- - - -	4 5 4 4	/
Kilkenny e Co. Kilkenny	1-10 11-20 21-end Month	0.8 36.2 0.6 37.6	- - - 43	2 8 2 12	0 5 0 5	8.5 8.3 10.4 9.1	3.2 2.3 5.7 3.8	5.9 5.3 8.1 6.5	- - - +2.1	-3.9 05 -1.0 18 0.2 31 -3.9 05	3 2 0 5	22 11 40 73	0 0 1 1	-9.5 05 -5.9 18 -4.4 31 -9.5 05	4 6 2 12	5.2 4.1 7.2 5.6	- - - +1.7					1.72 1.44 1.84 1.67	- - - 85	5 5 3 4	2 5 0 7
Mooncoin (Silverspring) Co. Kilkenny	1-10 11-20 21-end Month	2.6 27.6 0.8 31.0	- - - 29	2 9 2 13	2 6 0 8	8.5 9.8 10.4 9.6	2.7 1.7 5.6 3.4	5.6 5.8 8.0 6.5		-2.9 05 -1.3 13 2.2 25 -2.9 05	1 4 0 9	17 14 40 71	0 0 0 0	-7.1 05 -6.0 13 -1.3 25 -7.1 05	4 6 1 11							1.77 1.61 2.20 1.87	/	/	/
Ballinamore Co. Leitrim	1-10 11-20 21-end Month	19.5 82.8 14.4 116.7	- - - 107	8 10 6 24	7 10 4 21	8.2 8.4 9.4 8.7	2.1 0.9 4.5 2.6	5.2 4.7 7.0 5.7		-3.0 05 -0.6 18 1.1 28 -3.0 05	2 3 0 5	17 8 34 59	0 0 0 0	-3.9 05 -2.6 16 -1.6 28 -3.9 05	4 9 2 15							1.12 1.05 0.59 0.91	/	4 5 2 4	/
Ardee (Boharnamoe) Co. Louth	1-10 11-20 21-end Month	11.2 32.7 4.7 48.6	/	5 10 3 18	4 8 1 13	8.9 8.7 9.7 9.1	3.0 0.8 4.3 2.7	6.0 4.8 7.0 5.9		-3.7 05 -1.1 13 -0.1 28 -3.7 05	1 6 1 8	19 7 36 62	0 0 0 0	-10.4 05 -6.4 20 -1.9 28 -10.4 05	6 9 5 20							/	/	/	/
Ballinrobe (Creagh) Co. Mayo	1-10 11-20 21-end Month	9.2 56.2 6.9 72.3	- - - 56	7 10 7 24	3 10 3 16	9.0 10.0 10.2 9.8	2.3 2.3 5.2 3.3	5.7 6.2 7.7 6.6		-3.4 05 -0.8 13 3.3 25 -3.4 05	2 1 0 3	18 18 36 72	0 0 0 0	-5.7 05 -3.8 08 -1.2 29 -5.7 05	5 5 4 14							0.95 1.15 0.95 1.01	/	4 5 3 4	/

Notes on the tables in January issue

TABLE 1 (Continued)

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	12.1	-	6	3	9.5	4.9	7.2	-	0.2	04	0	29	0	-4.2	05	3	6.7	-	0.55	-	8	6
	11-20	44.5	-	10	10	9.2	3.5	6.4	-	2.1	12	0	20	0	-0.6	11	2	5.9	-	0.65	-	8	8
	21-end	23.0	-	5	4	10.4	7.6	9.0	-	5.5	24	0	51	0	0.7	28	0	8.1	-	0.43	-	7	1
	Month	79.6	71	21	17	9.7	5.4	7.6	+1.8	0.2	04	0	100	0	-4.2	05	5	6.9	+1.9	0.54	33	8	15
Claremorris e Co. Mayo	1-10	5.8	-	4	3	8.7	3.1	5.9	-	-3.4	05	2	21	0	-6.0	05	4	5.3	-	1.12	-	6	3
	11-20	42.0	-	10	9	8.4	2.0	5.2	-	-0.2	13	1	9	0	-3.3	13	3	4.5	-	1.04	-	7	8
	21-end	13.5	-	4	2	9.5	6.3	7.9	-	3.0	24	0	39	1	-1.4	24	1	7.0	-	0.33	-	5	1
	Month	61.3	54	18	14	8.9	3.9	6.4	+2.2	-3.4	05	3	69	1	-6.0	05	8	5.6	+1.8	0.81	48	6	12
Glenamoy Co. Mayo	1-10	25.6	-	8	5	8.7	3.3	6.0	/	-2.5	05	3	20	0	-4.2	05	3	/	/	0.50	/	/	/
	11-20	58.5	-	10	10	9.2	3.1	6.2	/	0.9	18	0	18	0	-1.5	18	2	/	/	0.81	/	/	/
	21-end	33.6	-	5	4	10.1	5.9	8.0	/	3.1	25	0	40	0	0.9	25	0	/	/	0.41	/	/	/
	Month	117.7	82	23	19	9.4	4.2	6.8	/	-2.5	05	3	78	0	-4.2	05	5	/	/	0.57	/	/	/
Dunsany (Grange) Co. Meath	1-10	4.9	-	4	3	7.4	2.1	4.8	/	-1.5	05	3	14	0	-10.1	05	4	/	/	1.96	/	/	/
	11-20	32.9	-	10	7	7.6	0.3	4.0	/	-2.5	13	5	7	0	-5.0	13	7	/	/	1.06	/	/	/
	21-end	6.1	-	3	1	8.9	4.3	6.6	/	2.0	28	0	30	0	-3.2	24	3	/	/	1.26	/	/	/
	Month	43.9	63	17	11	8.0	2.2	5.1	/	-2.5	13	8	51	0	-10.0	05	14	/	/	1.42	/	/	/
Clones e Co. Monaghan	1-10	14.6	-	6	6	8.2	3.2	5.7	-	-2.2	05	1	18	0	-5.0	05	4	5.2	-	1.76	-	6	7
	11-20	44.3	-	10	8	7.4	0.8	4.1	-	-1.1	13	3	2	0	-3.9	11	6	3.9	-	1.08	-	6	8
	21-end	9.0	-	5	2	9.4	5.7	7.5	-	3.1	25	0	34	0	0.3	28	0	6.6	-	0.80	-	4	0
	Month	67.9	76	21	16	8.3	3.3	5.8	+2.0	-2.2	05	4	54	0	-5.0	05	10	5.3	+1.8	1.20	71	5	15
Birr e Co. Offaly	1-10	3.5	-	3	1	8.4	3.1	5.8	-	-2.4	05	2	20	0	-7.5	05	5	5.3	-	1.62	-	5	2
	11-20	34.5	-	8	6	8.4	2.2	5.3	-	-0.9	13	1	12	0	-3.8	11	5	4.4	-	1.22	-	5	6
	21-end	0.4	-	2	0	9.7	6.4	8.1	-	3.0	24	0	40	1	-2.3	31	3	7.1	-	1.04	-	3	1
	Month	38.4	49	13	7	8.9	4.0	6.5	+2.1	-2.4	05	3	72	1	-7.5	05	13	5.7	+1.7	1.28	72	4	9
Thurles Co. Tipperary	1-10		-															/	/	/	/	/	/
	11-20		-															/	/	/	/	/	/
	21-end		-															/	/	/	/	/	/
	Month		-															/	/	/	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

January, 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
Dungarvan (Ballygagin) Co. Waterford	1-10	4.7	-	4	2	8.6	3.5	6.1	/	-0.9	05	1	14	0	-4.5	05	4	/	1.51	/	2	/	
	11-20	42.3	-	8	7	9.8	3.0	6.4	/	-1.5	13	1	19	0	-7.3	13	6	/	1.50	/	3	/	
	21-end	0.5	-	1	0	10.0	7.1	8.6	/	5.5	25	0	35	0	-0.5	24	1	/	1.25	/	3	/	
	Month	47.5	39	13	9	9.6	4.7	7.2	/	-1.5	13	2	68	0	-7.3	13	11	/	1.41	/	3	/	
Mullingar e Co. Westmeath	1-10	9.0	-	4	4	7.8	3.1	5.5	-	-3.2	05	2	18	0	-6.6	05	4	5.0	-	1.82	-	6	3
	11-20	47.0	-	9	7	7.6	0.7	4.2	-	-1.9	13	3	4	0	-5.7	13	6	3.8	-	1.32	-	6	7
	21-end	9.8	-	5	1	9.2	5.9	7.6	-	2.6	25	0	35	0	0.1	25	0	6.5	-	1.15	-	5	0
	Month	65.8	71	18	12	8.3	3.3	5.8	+1.9	-3.2	05	5	57	0	-6.6	05	10	5.2	+1.6	1.42	74	6	10
Campile (Ballysop) Co. Wexford	1-10	1.5	-	2	0	8.0	3.4	5.7	/	-1.1	05	1	12	0	-8.3	05	5	/	1.51	/	/	/	
	11-20	23.7	-	8	4	9.2	1.8	5.5	/	-1.2	13	2	9	0	-6.7	13	7	/	1.31	/	/	/	
	21-end	0.0	-	0	0	9.7	5.6	7.7	/	2.8	25	0	39	0	-2.6	25	4	/	2.10	/	/	/	
	Month	25.2	22	10	4	9.0	3.7	6.4	/	-1.2	13	3	60	0	-8.3	05	16	/	1.65	/	/	/	
Clonroche Co. Wexford	1-10	1.7	-	2	0	7.7	2.7	5.2	/	-1.9	05	1	13	0	-8.0	05	3	/	1.29	/	3	/	
	11-20	30.1	-	9	6	8.5	1.2	4.9	/	-3.0	18	3	9	0	-8.5	16	6	/	1.69	/	4	/	
	21-end	0.6	-	2	0	9.6	5.6	7.6	/	2.8	25	0	41	0	-2.1	25	2	/	1.80	/	2	/	
	Month	32.4	25	13	6	8.6	3.2	5.9	/	-3.0	18	4	63	0	-8.5	16	11	/	1.60	/	3	/	
Johnstown Castle Co. Wexford	1-10	1.6	-	3	1	8.0	3.2	5.6	/	-1.0	05	1	17	0	-6.8	05	5	/	1.29	/	4	/	
	11-20	23.2	-	9	5	9.1	1.6	5.4	/	-1.1	13	3	11	0	-7.7	16	9	/	1.70	/	5	/	
	21-end	1.8	-	2	1	9.6	6.0	7.8	/	3.8	25	0	42	0	-4.2	25	3	/	1.70	/	3	/	
	Month	26.6	23	14	7	8.9	3.7	6.3	/	-1.1	13	4	70	0	-7.7	16	17	/	1.57	/	4	/	
Rosslare e Co. Wexford	1-10	1.9	-	2	1	8.5	4.2	6.4	-	0.2	05	0	22	0	-5.0	05	3	5.7	-	1.22	-	5	3
	11-20	21.2	-	6	6	8.6	3.1	5.9	-	-0.5	13	1	16	0	-3.7	13	4	4.5	-	1.77	-	6	5
	21-end	1.7	-	1	1	9.8	6.6	8.2	-	5.2	25	0	42	0	0.5	30	0	7.6	-	1.90	-	4	0
	Month	24.8	24	9	8	9.0	4.7	6.9	+0.7	-0.5	13	1	80	0	-5.0	05	7	6.0	+0.7	1.64	74	5	8

Notes on the tables in January issue

TABLE 2

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

January, 1981

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		5	4	4	-
	11-20		2	-	0	29
	21-end	-	5	4	4	-
	Month		12	-	-	-
Kinsealy* Co. Dublin	1-10	1967	-3	-	0	7
	11-20	1848	6	-	0	20
	21-end	3130	3	-	0	1
	Month	6945	6	-	-	-
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	2103	0	-	0	18
	11-20	1966	0	-	0	34
	21-end	2773	-2	-	0	8
	Month	6842	-2	-	-	-
Kilkenny e Co. Kilkenny	1-10	2487	-	-	-	-
	11-20	2435	-	-	-	-
	21-end	3762	-	-	-	-
	Month	8684	-	-	-	-
Ballinamore Co. Leitrim	1-10		-1	-	0	21
	11-20		+2	2	2	-
	21-end		-1	-	0	1
	Month		0	-	-	-
Glenamoy/ ^h Co. Mayo	1-10		4	-	0	21
	11-20		4	-	0	59
	21-end		1	-	0	28
	Month		9	-	-	-
Birr e Co. Offaly	1-10	2349				
	11-20	2080				
	21-end	3141				
	Month	7570				
Johnstown Castle Co. Wexford	1-10		-2	-	0	3
	11-20		11	-	0	12
	21-end		-4	-	0	5
	Month		5	-	0	-

*, /, See notes in January issue.

AGROMETEOROLOGICAL BULLETIN - NOTES

1. The term "rainfall" includes all forms of precipitation (snow, hail, dew) measured as equivalent rain.
 2. "Rain days" and "Wet days" are days during which the total rainfall is not less than 0.2 mm and 1.0 mm respectively.
 3. The mean daily air temperature over a period is taken as the average of the daily maximum and daily minimum temperature over the period.
 4. For a given daily mean temperature of $T^{\circ}\text{C}$ (See 3) the degree day total (DD) above the base temperature ($B^{\circ}\text{C}$) is given by $DD = (T - B)^{\circ}\text{C days}$ when T is greater than B . If T is less than B then $DD = 0$ for that day.
 5. Days with air frost are those during which the minimum air temperature is below 0.0°C .
 6. "Ground" temperatures refer to temperatures measured with a thermometer placed horizontally on pegs just above the tips of short grass.
 7. Days with ground frost are those during which the minimum "ground" temperature is below 0.0°C .
 8. The mean daily soil temperature (at 10 cm depth under a bare soil surface) over a period is taken as the average of four daily readings (at 0300, 0900, 1500 and 2100 GMT) over the period at stations marked "e" in the Tables.
 9. Mean daily wind speed over a period is taken as the average of hourly values during the period at stations marked "e". At other stations, mean daily wind speed is computed from once-daily readings of run-of-the-wind. From January 1978 wind speed is published in metres per second. (One $\text{ms}^{-1} = 1.94$ knots or 2.24 mph).
- All wind speeds refer to the wind at 10 metres effective height above the ground; where measurements are made at other heights the wind speed readings are corrected to a height of 10 metres.
10. Days with gale-gusts are those (at stations marked "e") during which the wind speed exceeded 17 ms^{-1} (33 knots) at any time during the day.
 11. Potential evapotranspiration (P.E.) values given in Table 2 are those measured by means of soil-filled tanks sunk into the ground with their upper, grass-covered ends at surface level. The symbol * indicates that solar radiation values refer to Dublin Airport. The symbol / indicates that solar radiation values refer to Belmullet.
 12. Soil moisture deficits and surpluses are computed from the differences between rainfall and actual evapotranspiration (A.E.). Estimates of A.E. are derived from measured values of P.E. (see Agmet. Mem. No. 1, 1968). Soil moisture surpluses are assumed to be removed by drainage and surface run-off and are not, therefore, carried forward from one period to the next. Soil moisture deficits are, however, regarded as being cumulative.
 13. Deviations of monthly values of rainfall, air temperature, soil temperature and bright sunshine from long-term averages are shown in Table 1 in the case of stations for which those averages are known. Averages of air temperature and bright sunshine refer to the period 1931-1960. Due to a change of site at Mullingar, averages of air temperature used are estimates based on old site. Averages of soil temperature refer to the period 1956-1975. Averages of rainfall refer to the period 1941-1970.
 14. In cases where elements are not normally measured or where long-term averages are not available, a dash (/) is inserted in the appropriate space in the Tables.

If, in a particular month, some data, normally given, are not included in the Bulletin, this omission will be indicated by the letters N/A in the appropriate space in the Tables.