

METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JANUARY 1983

The Weather of January

A generally mild southwest to west airflow, mostly strong and gusty, dominated from 1st to 11th. Wide-spread rain or frequent showers occurred. Some of the showers were of snow or sleet, however, as colder conditions in westerly winds interrupted the mild spell on the 6th and 7th; otherwise temperatures were well above average. Another cold spell with bustery northwesterly winds set in on the 12th and there were showers of hail or snow on the 12th and 13th.

High pressure, first centred off the southwest and later to the south of Ireland, dominated conditions for much of the following week. To the north of the high, a mild and strong west to northwest airstream was steered in over the country. Although outbreaks of rain and drizzle were widespread on the 14th, subsequent weather was mostly dry but cloudy.

A cold front moved down over Ireland from the northwest late on the 17th and a cold northwesterly airflow was generally established on the 18th. Some snow showers occurred at first but, as high pressure was renewed, the winds slackened and air frost and sharp to severe ground frost developed at night on 19th and 20th. The high slowly declined towards the mainland of Europe and a very mild southwest to west airflow set in. Wide-spread rain or drizzle occurred on a number of days and temperatures were well above average. In marked contrast, a cold west to northwest airflow gradually set in on the 29th. There were frequent blustery showers of rain, hail or snow on the 30th but widespread snow overnight (30th/31st) quickly melted as milder air set in on the 31st with widespread heavy rain.

Monthly Amounts of Precipitation were above normal in most places, and well above normal in the midlands, and parts of the west but in parts of the south and east they were near or below normal. Amounts varied from 179% of normal at Ballinrobe to 79% of normal at Rosslare. Wettest days were 2nd, 4th, 12th and 31st generally, also in the south and west on the 1st, in the south on the 23rd, and in the west and north on the 28th. Both the number of rain days (days with 0.2mm or more rainfall) and wet days (1.0mm or more) were well above average, reaching a maximum of 30 and 29 days respectively at Glenties. Snow was widespread on 30th and early 31st.

Mean Monthly Air Temperature was well above normal at nearly all stations. Values varied from 2.4°C above normal at Shannon Airport to 1.2°C above normal at Rosslare. Soil temperatures (at 100mm) were up to 2.8°C above average at the middle of the month and about 1.5°C above average for the month as a whole at most inland stations. Accumulated degree days (threshold 4.4°C) were about 150 to 170% of average.

Mean Duration of Bright Sunshine was well below normal in all areas, varying from 80% of normal at Dublin Airport, (where Global solar radiation, (G.S.R) was 93% of average) to 35% of normal at Valentia (where G.S.R. was 82% of average).

Gale Force Winds were widespread on the 2nd, 5th, 30th and 31st. Strong winds with gale gusts occurred frequently during the month, and only one quiet period occurred from 19th to 21st.

Summary Generally very mild, dull, windy, and wet especially in the midlands and parts of 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 in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

January 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 AND 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	33.0	-	9	7	10.2	2.3	6.3	-	0.5	8	0	24	-	3	-	-1.8	7	4	-	-	0.93	-	6.7	-	-
	11-20	15.4	-	4	3	8.2	3.6	5.9	-	-2.8	20	2	23	-	1	-	-7.2	20	5	-	-	1.73	-	5.7	-	-
	21-end	39.2	-	6	6	9.6	3.4	6.5	-	-1.0	31	2	31	-	3	-	-2.5	22	5	-	-	0.64	-	6.1	-	-
	Month	87.6	103	19	16	9.4	3.1	6.2	-	-2.8	20	4	78	-	6	-	-7.2	20	14	-	-	1.08	-	6.2	-	-
Shannon Airport Co. Clare	1-10	58.1	-	9	9	10.5	4.8	7.7	-	2.4	6	0	34	-	3	-	-0.4	8	1	6.2	-	0.94	-	7.8	10	-
	11-20	23.3	-	6	3	9.1	4.9	7.0	-	-0.1	20	1	29	-	0	-	-5.7	20	3	6.1	-	1.56	-	6.8	5	-
	21-end	48.4	-	8	6	10.6	5.2	7.9	-	0.5	31	0	41	-	4	-	-0.5	30	2	6.4	-	0.95	-	8.0	7	-
	Month	129.8	138	23	18	10.1	5.0	7.5	+2.4	-0.1	20	1	104	160	7	-	-5.7	20	6	6.3	+1.6	1.15	67	7.6	22	13
Fermoy (Coolnakilla) Co. Cork	1-10	51.7	-	10	8	9.1	1.5	5.3	-	-0.5	7	1	18	-	1	-	-3.1	7	7	-	-	0.87	-	6.2	-	-
	11-20	21.4	-	8	5	7.0	2.2	4.6	-	-1.8	19	4	13	-	0	-	-7.1	20	5	-	-	1.57	-	7.3	-	-
	21-end	56.7	-	9	6	9.8	3.0	6.4	-	-2.8	30	2	28	-	2	-	-4.2	30	3	-	-	0.65	-	6.6	-	-
	Month	129.8	-	27	19	8.7	2.2	5.5	-	-2.8	30	7	58	-	3	-	-7.1	20	15	-	-	1.02	-	6.7	-	-
Fermoy (Moore Park) Co. Cork	1-10	37.5	-	10	7	10.6	2.2	6.4	-	-1.0	8	2	26	-	3	-	-4.4	8	8	-	-	0.91	-	4.1	-	-
	11-20	15.5	-	5	3	8.4	3.7	6.1	-	-4.9	20	2	25	-	1	-	-8.9	20	4	-	-	1.57	-	4.9	-	-
	21-end	47.7	-	7	4	11.1	4.8	7.9	-	-2.4	21	2	44	-	4	-	N/A	5	-	-	-	0.45	-	4.0	-	-
	Month	100.7	90	22	14	10.1	3.6	6.8	-	-4.9	20	6	94	-	8	-	N/A	17	-	-	-	0.96	-	4.3	-	-
Mallow Co. Cork	1-10	44.0	-	N/A	N/A				-					-		-	N/A	N/A	-	-	-	0.57	-	-	-	-
	11-20	18.6	-	6	3	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	-5.0	20	2	-	-	0.84	-	-	-	-
	21-end	67.7	-	6	6				-					-		-	N/A	N/A	-	-	-	0.65	-	-	-	-
	Month	130.3	105	N/A	N/A				-					-		-	N/A	N/A	-	-	-	0.68	-	-	-	-
Roches Point Co. Cork	1-10	38.4	-	9	6	10.4	5.7	8.1		3.1	6	0	38	-	2	-	-0.2	8	1	7.5	-	1.10	-	9.0	10	-
	11-20	11.0	-	3	2	9.1	4.7	6.9		0.3	20	0	28	-	1	-	-3.9	20	2	6.6	-	1.68	-	7.9	7	-
	21-end	40.6	-	6	5	10.2	6.5	8.3		0.0	30	0	46	-	3	-	-1.6	21	2	7.5	-	0.80	-	8.3	7	-
	Month	90.0	93	18	13	9.9	5.7	7.8	+1.3	0.0	30	0	111	143	6	-	-3.9	20	5	7.2	+1.3	1.18	59	8.4	24	12
Glencolumbkille Co. Donegal	1-10	68.8	-	10	10	9.1	3.0	6.0	-	0.6	7	0	21	-	1	-	N/A	N/A	-	-	-	0.43	-	6.5	-	-
	11-20	58.0	-	10	10	8.1	4.4	6.2	-	1.5	19	0	22	-	0	-	N/A	N/A	-	-	-	0.31	-	7.0	-	-
	21-end	50.8	-	8	8	N/A	5.0	N/A	-	-0.4	31	1	N/A	-	N/A	-	-1.5	31	2	-	-	0.95	-	6.6	-	-
	Month	177.6	-	28	28	N/A	4.0	N/A	-	-0.4	31	1	N/A	-	N/A	-	N/A	N/A	-	-	-	0.57	-	6.7	-	-

Notes on the tables in January issue

TABLE 1 (CONTINUED)

January 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. (PERMAN) (MM)
						MEAN MAX.	MEAN MIN.	MEAN DAILY AND 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	110.6	-	10	10	8.6	1.2	4.9	-	-0.6	7	3	15	-	1	-	-1.1	8	6	-	-	0.64	-	-	-	-
	11-20	63.1	-	10	10	7.8	2.5	5.2	-	-1.2	20	3	17	-	0	-	-2.1	20	5	-	-	0.26	-	-	-	-
	21-end	73.5	-	10	9	8.8	4.1	6.4	-	-0.4	31	2	27	-	1	-	-2.0	31	2	-	-	0.85	-	-	-	-
	Month	247.2	162	30	29	8.4	2.6	5.5	-	-1.2	20	8	59	-	1	-	-2.1	20	13	-	-	0.59	-	-	-	-
Malin Head Co. Donegal	1-10	50.1	-	10	10	9.3	3.9	6.6	-	1.6	6	0	25	-	1	-	0.1	2	0	5.1	-	0.53	-	13.1	10	-
	11-20	52.8	-	10	10	8.4	4.4	6.4	-	0.9	18	0	23	-	0	-	-0.2	18	2	5.8	-	0.46	-	12.8	10	-
	21-end	45.9	-	9	8	9.2	4.5	6.9	-	0.3	31	0	30	-	1	-	-1.0	31	2	5.4	-	1.19	-	12.7	11	-
	Month	148.8	138	29	28	8.9	4.3	6.6	+1.4	0.3	31	0	78	147	2	-	-1.0	31	4	5.4	+0.9	0.74	56	12.9	31	27
Casement Aerodrome Co. Dublin	1-10	25.4	-	9	8	10.0	3.9	6.9	-	1.4	6	0	29	-	2	-	-2.0	8	4	5.6	-	1.00	-	10.7	10	-
	11-20	13.6	-	5	3	8.0	3.2	5.6	-	-0.9	19	2	22	-	0	-	-4.7	19	5	5.2	-	1.47	-	8.9	7	-
	21-end	22.8	-	8	6	9.9	3.9	6.9	-	-1.1	30	1	33	-	3	-	-4.9	23	5	5.2	-	1.20	-	9.3	9	-
	Month	61.8	95	22	17	9.3	3.7	6.5	+2.3	-1.1	30	3	83	149	5	-	-4.9	23	14	5.4	-	1.22	60	9.6	26	14
Dublin Airport Co. Dublin	1-10	19.7	-	8	6	10.3	3.9	7.1	-	1.2	8	0	30	-	3	-	-2.5	1	2	5.5	-	1.64	-	8.1	9	-
	11-20	13.8	-	6	4	8.4	3.4	5.9	-	-0.7	20	2	24	-	1	-	-2.7	20	3	5.4	-	1.90	-	8.3	7	-
	21-end	29.1	-	8	6	10.0	4.5	7.2	-	-0.4	30	2	35	-	3	-	-4.8	22	4	5.4	-	1.41	-	7.8	9	-
	Month	62.6	89	22	16	9.5	3.9	6.7	+2.0	-0.7	20	4	88	162	6	-	-4.8	22	9	5.4	+1.3	1.64	80	8.1	25	16
Kinsealy Co. Dublin	1-10	19.9	-	8	7	10.7	N/A	N/A	-	1.0	8	0	N/A	-	N/A	-	-2.5	9	N/A	-	-	1.75	-	6.7	-	-
	11-20	12.3	-	5	4	8.7	N/A	N/A	-	-0.8	19	2	N/A	-	N/A	-	-3.0	20	5	-	-	1.86	-	6.6	-	-
	21-end	29.9	-	7	5	10.4	3.4	6.9	-	-1.6	22	4	35	-	4	-	-6.5	23	5	-	-	1.41	-	6.2	-	-
	Month	62.1	93	20	16	9.9	N/A	N/A	-	-1.6	22	6	N/A	-	N/A	-	-6.5	23	N/A	-	-	1.66	-	6.5	-	-
Galway Co. Galway	1-10	55.9	-	9	9	10.0	4.9	7.5	-	2.7	6	0	32	-	2	-	0.6	8	0	6.1	-	1.06	-	8.6	10	-
	11-20	20.2	-	5	4	8.8	4.8	6.8	-	0.5	20	0	27	-	0	-	-4.0	20	3	6.2	-	1.60	-	6.5	7	-
	21-end	68.3	-	9	8	9.8	4.8	7.3	-	-0.6	30	1	35	-	1	-	-1.9	31	2	6.4	-	1.54	-	8.2	9	-
	Month	144.4	138	23	21	9.5	4.8	7.2	+2.1	-0.6	30	1	95	-	4	-	-4.0	20	5	6.2	-	1.40	73	7.8	25	12
Killarney (Muckross Hse.) Co. Kerry	1-10	115.2	-	10	9	11.2	5.1	8.1	-	2.5	6	0	38	-	4	-	0.4	7	0	-	-	0.42	-	-	-	-
	11-20	34.4	-	6	5	9.3	5.0	7.2	-	-0.3	20	1	30	-	1	-	-4.6	20	3	-	-	0.43	-	-	-	-
	21-end	104.5	-	9	7	11.6	5.6	8.6	-	-0.5	30	1	49	-	6	-	-2.0	30	4	-	-	0.62	-	-	-	-
	Month	254.1	-	25	21	10.7	5.2	8.0	-	-0.5	30	2	118	-	11	-	-4.6	20	7	-	-	0.49	-	-	-	-

Notes on the tables in January issue

TABLE 1 (CONTINUED)

January 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 AND 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		
Gahirciveen (Valentia Obsy.) Co. Kerry	1-10	69.6	-	10	9	11.3	6.6	9.0	-	2.6	6	0	46	-	5	-	2.0	6	0	7.7	-	0.69	-	9.2	10	-
	11-20	24.1	-	7	3	9.7	5.3	7.5	-	0.4	19	0	34	-	1	-	-1.7	20	2	7.3	-	0.46	-	7.2	7	-
	21-end	91.2	-	8	7	11.0	6.8	8.9	-	0.7	30	0	51	-	4	-	0.1	30	0	7.8	-	0.49	-	9.4	9	-
	Month	184.9	115	25	19	10.7	6.2	8.5	+1.5	0.4	19	0	130	145	10	185	-1.7	20	2	7.6	+1.7	0.55	35	8.6	26	17
Ardfert (Liscahane) Co. Kerry	1-10	61.3	-	9	8	10.8	4.8	7.8	-	2.5	7	0	35	-	4	-	-0.7	2	3	-	-	0.74	-	-	-	-
	11-20	30.5	-	9	5	8.8	5.0	6.9	-	-0.1	20	1	28	-	1	-	-4.9	20	1	-	-	0.49	-	-	-	-
	21-end	65.2	-	7	5	11.4	5.7	8.6	-	-0.8	30	1	48	-	5	-	-2.2	22	4	-	-	1.28	-	-	-	-
	Month	157.0	-	25	18	10.4	5.2	7.8	-	-0.8	30	2	111	-	9	-	-4.9	20	8	-	-	0.85	-	-	-	-
Lullymore Co. Kildare	1-10	39.5	-	10	7	9.6	1.8	5.7	-	0.2	8	0	20	-	2	-	-2.9	8	5	-	-	N/A	-	6.4	-	-
	11-20	22.4	-	8	4	7.6	3.0	5.3	-	-2.7	20	3	19	-	0	-	-8.0	20	5	-	-	N/A	-	6.4	-	-
	21-end	57.0	-	9	7	9.2	2.8	6.0	-	-0.9	30	3	26	-	2	-	-2.5	30	4	-	-	N/A	-	5.7	-	-
	Month	118.9	151	27	18	8.8	2.5	5.7	-	-2.7	20	6	65	-	4	-	-8.0	20	14	-	-	N/A	-	6.2	-	-
Kilkenny Co. Kilkenny	1-10	34.5	-	9	6	10.4	2.9	6.7	-	0.3	8	0	29	-	3	-	-5.6	8	7	5.7	-	0.98	-	5.6	6	-
	11-20	14.0	-	4	3	8.9	3.3	6.1	-	-5.0	20	2	27	-	1	-	-11.8	20	5	5.2	-	1.77	-	6.0	7	-
	21-end	36.7	-	6	4	10.1	3.8	7.0	-	-1.1	30	1	34	-	3	-	-5.2	26	7	5.5	-	0.65	-	5.7	6	-
	Month	85.2	97	19	13	9.8	3.4	6.6	+2.2	-5.0	20	3	89	165	7	-	-11.8	20	19	5.5	+1.6	1.12	57	5.7	19	9
Mooncoin (Silverspring) Co. Kilkenny	1-10	30.2	-	9	6	11.0	2.0	6.5	-	-2.6	8	3	27	-	4	-	-7.1	8	7	-	-	0.83	-	-	-	-
	11-20	16.8	-	3	2	8.8	3.5	6.1	-	-4.9	20	3	26	-	1	-	-9.9	20	6	-	-	2.52	-	-	-	-
	21-end	43.2	-	3	5	11.4	4.5	8.8	-	-3.9	21	2	45	-	6	-	-6.9	21	4	-	-	0.69	-	-	-	-
	Month	90.2	84	15	13	10.4	3.4	6.9	-	-4.9	20	8	97	-	11	-	-9.9	20	17	-	-	1.33	-	-	-	-
Ballinamore Co. Leitrim	1-10	46.5	-	9	8	9.3	1.3	5.3	-	0.3	7	0	19	-	2	-	-0.8	1	6	-	-	1.27	-	4.7	-	-
	11-20	36.7	-	8	7	7.9	3.5	5.7	-	-0.8	20	1	20	-	0	-	-3.0	19	4	-	-	1.01	-	5.8	-	-
	21-end	71.5	-	9	8	9.1	N/A	N/A	-	-1.4	30	N/A	N/A	-	N/A	-	-2.5	30	3	-	-	1.15	-	4.4	-	-
	Month	154.7	142	26	23	8.8	N/A	N/A	-	-1.4	30	N/A	N/A	-	N/A	-	-3.0	19	13	-	-	1.14	-	5.0	-	-
Ardee (Boharnamoe) Co. Louth	1-10	19.8	-	7	5	10.1	2.3	6.2	-	0.1	8	0	24	-	3	-	-0.5	8	3	-	-	-	-	-	-	-
	11-20	14.5	-	6	3	9.8	2.5	6.2	-	-2.5	20	3	27	-	2	-	-6.8	20	5	-	-	-	-	-	-	-
	21-end	39.7	-	7	7	10.0	2.0	6.0	-	-1.9	23	5	27	-	2	-	-4.6	21	6	-	-	-	-	-	-	-
	Month	74.0	-	20	15	10.0	2.3	6.1	-	-2.5	20	8	78	-	7	-	-6.8	20	14	-	-	-	-	-	-	-

Notes on the tables in January issue

TABLE 1 (CONTINUED)

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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 AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.0°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	104.6	-	10	10	10.1	2.5	6.3	-	0.4	7	0	25	-	2	-	-1.6	8	5	-	-	1.01	-	6.0	-	-
	11-20	38.7	-	6	5	9.1	3.3	6.2	-	-1.5	20	2	24	-	1	-	-6.5	20	3	-	-	0.91	-	4.7	-	-
	21-end	86.8	-	9	8	10.4	3.1	6.8	-	-2.1	30	2	33	-	3	-	-2.4	30	5	-	-	1.27	-	5.9	-	-
	Month	230.1	177	25	23	9.9	3.0	6.4	-	-2.1	30	4	80	-	6	-	-6.5	20	13	-	-	1.07	-	5.5	-	-
Belmullet Co. Mayo	1-10	39.2	-	10	9	10.1	4.7	7.4	-	1.8	6	0	32	-	2	-	0.3	6	0	6.3	-	0.39	-	11.5	10	-
	11-20	38.5	-	9	7	9.0	4.9	6.9	-	1.9	13	0	27	-	0	-	0.1	20	0	6.5	-	0.74	-	8.5	8	-
	21-end	57.7	-	9	8	9.8	5.1	7.5	-	0.3	31	0	37	-	2	-	-0.5	30	2	6.6	-	1.27	-	9.7	8	-
	Month	135.4	121	28	24	9.6	4.9	7.3	+1.5	0.3	31	0	96	149	4	-	-0.5	30	2	6.5	+1.5	0.82	50	9.9	26	18
Claremorris Co. Mayo	1-10	65.7	-	10	9	9.3	3.6	6.5	-	1.2	7	0	25	-	1	-	-0.9	2	3	5.3	-	0.68	-	8.6	9	-
	11-20	18.3	-	6	3	8.2	3.6	5.9	-	-1.4	20	2	23	-	0	-	-6.1	20	4	5.6	-	0.97	-	7.6	7	-
	21-end	54.8	-	9	8	9.4	4.0	6.7	-	-0.7	30	1	30	-	1	-	-2.2	30	3	5.6	-	0.86	-	8.5	10	-
	Month	138.8	123	25	20	9.0	3.7	6.4	+2.2	-1.4	20	3	78	169	2	-	-6.1	20	10	5.5	+1.7	0.84	49	8.3	26	13
Glenamoy Co. Mayo	1-10	83.8	-	10	10	9.4	3.0	6.2	-	0.9	7	0	23	-	1	-	-0.4	7	2	-	-	0.43	-	8.2	-	-
	11-20	48.0	-	10	8	8.6	4.2	6.4	-	0.8	20	0	24	-	0	-	-1.4	20	2	-	-	0.61	-	6.5	-	-
	21-end	89.5	-	9	9	9.9	5.0	7.4	-	0.0	31	0	36	-	1	-	-1.2	30	2	-	-	1.08	-	8.5	-	-
	Month	221.3	154	29	27	9.3	4.1	6.7	-	0.0	31	0	82	-	2	-	-1.4	20	6	-	-	0.71	-	7.7	-	-
Dunsany (Grange) Co. Meath	1-10	31.7	-	6	3	9.5	1.8	5.6	-	0.2	1	0	21	-	2	-	N/A	N/A	-	-	1.27	-	-	-	-	-
	11-20	19.9	-	7	4	7.6	3.0	5.3	-	-2.5	19	2	19	-	0	-	N/A	N/A	-	-	1.41	-	-	-	-	-
	21-end	42.8	-	8	7	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	N/A	N/A	-	-	N/A	-	-	-	-	-
	Month	94.4	121	21	14	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	35.3	-	9	7	9.3	2.7	6.0	-	0.4	7	0	22	-	1	-	-1.2	2	5	5.2	-	1.07	-	6.4	8	-
	11-20	17.7	-	8	4	8.0	3.3	5.7	-	-0.9	20	2	22	-	0	-	-4.8	20	5	5.5	-	1.21	-	6.8	7	-
	21-end	40.5	-	9	7	8.0	3.7	6.3	-	-1.1	30	2	27	-	1	-	-2.8	31	3	5.5	-	1.16	-	6.1	8	-
	Month	93.5	105	26	18	8.7	3.3	6.0	+2.2	-1.1	30	4	71	174	3	-	-4.8	20	13	5.4	+1.9	1.15	68	6.4	23	14
Birr Co Offaly	1-10	42.7	-	9	8	10.3	3.7	7.0	-	1.0	8	0	30	-	3	-	-2.7	8	4	5.9	-	0.99	-	4.8	7	-
	11-20	16.0	-	6	3	8.4	3.7	6.1	-	-2.3	20	2	25	-	0	-	-8.5	20	5	5.6	-	1.19	-	4.2	3	-
	21-end	41.8	-	9	6	10.1	4.2	7.1	-	-0.4	30	1	34	-	3	-	-3.5	22	5	5.7	-	0.93	-	5.1	6	-
	Month	100.5	127	24	17	9.6	3.9	6.7	+2.3	-2.3	20	3	89	166	6	-	-8.5	20	14	5.7	+1.7	1.03	58	4.7	16	4

Notes on the tables in January issue

TABLE 1 (CONTINUED)

January 1983

STATION	PERIOD	RAINFALL (MM)				TEMPERATURE(°C)														BRIGHT SUNSHINE		WIND		P. E. (PERMAN) (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 AND 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	49.8	-	9	7	10.0	1.6	5.8	-	-3.0	1	1	23	-	3	-	-4.7	1	6	-	-	-	-	-	-	-	-	
	11-20	17.3	-	5	4	8.1	3.4	5.7	-	-2.7	20	3	21	-	0	-	-6.0	20	5	-	-	-	-	-	-	-	-	
	21-end	52.5	-	8	6	10.7	3.9	7.3	-	-0.5	30	3	37	-	3	-	-4.0	22	5	-	-	-	-	-	-	-	-	
	Month	119.6	-	22	17	9.6	3.0	6.3	-	-3.0	1	7	81	-	6	-	-6.0	20	16	-	-	-	-	-	-	-	-	-
Dungarvan (Ballygagin) Co. Waterford	1-10	44.2	-	10	8	10.5	1.8	6.2	-	-0.9	8	2	25	-	3	-	-4.0	7	5	-	-	N/A	-	4.8	-	-	-	
	11-20	15.5	-	4	3	9.6	1.8	5.7	-	-4.3	20	2	22	-	1	-	-4.8	20	3	-	-	N/A	-	3.8	-	-	-	
	21-end	52.9	-	8	5	11.3	5.0	8.1	-	-0.5	30	1	44	-	5	-	-1.1	30	3	-	-	N/A	-	4.1	-	-	-	
	Month	112.6	93	22	16	10.5	3.0	6.7	-	-4.3	20	5	91	-	9	-	-4.8	20	11	-	-	N/A	-	4.2	-	-	-	
Mullingar Co. Westmeath	1-10	54.2	-	10	9	9.3	2.9	6.1	-	0.6	8	0	23	-	1	-	-2.6	1	6	5.0	-	1.19	-	7.7	9	-	-	
	11-20	23.2	-	5	4	7.9	3.1	5.5	-	-3.1	20	2	21	-	0	-	-6.1	20	5	5.0	-	1.58	-	6.9	6	-	-	
	21-end	64.1	-	8	7	9.3	3.3	6.3	-	-0.7	31	3	27	-	2	-	-3.6	22	7	5.1	-	1.25	-	7.3	8	-	-	
	Month	141.5	152	23	20	8.8	3.1	6.0	+2.1	-3.1	20	5	71	-	3	-	-6.1	20	18	5.0	+1.4	1.34	69	7.3	23	5	-	
J.F.K. Park Co. Wexford	1-10	27.3	-	9	5	9.7	3.0	6.4	-	0.1	1	0	23	-	2	-	-4.9	1	5	-	-	0.58	-	9.8	-	-	-	
	11-20	16.7	-	3	3	8.6	3.6	6.1	-	-1.9	20	2	25	-	1	-	-8.2	20	6	-	-	2.21	-	6.1	-	-	-	
	21-end	37.6	-	7	5	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	-5.8	21	3	-	-	0.43	-	9.3	-	-	-	
	Month	81.6	72	19	13	N/A	N/A	N/A	-	N/A	N/A	N/A	N/A	-	N/A	-	-8.2	20	14	-	-	1.05	-	8.4	-	-	-	
Clonroche Co. Wexford	1-10	40.4	-	10	7	9.4	2.4	5.9	-	0.1	8	0	20	-	1	-	-3.0	8	6	-	-	0.80	-	4.0	-	-	-	
	11-20	23.0	-	4	3	8.1	3.4	5.7	-	-3.5	20	2	22	-	0	-	-9.2	20	5	-	-	1.64	-	3.7	-	-	-	
	21-end	48.2	-	8	4	10.0	4.0	7.0	-	-1.0	30	3	34	-	2	-	-2.1	30	4	-	-	0.49	-	3.4	-	-	-	
	Month	111.6	87	22	14	9.2	3.3	6.2	-	-3.5	20	5	76	-	3	-	-9.2	20	15	-	-	0.96	-	3.7	-	-	-	
Johnstown Castle Co. Wexford	1-10																											
	11-20																											
	21-end																											
	Month																											
Rosslare Co. Wexford	1-10	34.8	-	9	8	10.3	5.4	7.8		2.1	8	0	35	-	1	-	-0.4	8	1	6.9	-	0.89	-	8.1	10	-	-	
	11-20	17.2	-	3	2	8.9	4.1	6.5		0.0	20	0	27	-	1	-	-4.0	20	4	5.9	-	2.77	-	6.4	7	-	-	
	21-end	29.8	-	7	4	9.6	5.9	7.7		-0.2	30	1	39	-	1	-	-1.9	30	3	6.8	-	0.92	-	7.4	8	-	-	
	Month	81.8	79	19	14	9.6	5.2	7.4	+1.2	-0.2	30	1	102	154	3	-	-4.0	20	8	6.5	+1.2	1.51	68	7.3	25	11	-	

Notes on the tables in January issue

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	1389
	11-20	1479
	21-end	2384
	Month	5252
Dublin Airport Co. Dublin	1-10	2098
	11-20	2328
	21-end	2766
	Month	7192
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	1590
	11-20	1971
	21-end	2489
	Month	6050
Kilkenny Co. Kilkenny	1-10	1702
	11-20	2093
	21-end	2179
	Month	5974
Belmullet Co. Mayo	1-10	1465*
	11-20	1914
	21-end	2584
	Month	5963 ⁺
Clones Co. Monaghan	1-10	1694
	11-20	1914
	21-end	2546
	Month	6154
Birr Co. Offaly	1-10	1874
	11-20	1998
	21-end	2132
	Month	6004

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

STATION	PERIOD	SOIL MOISTURE (mm)			
		P.E. (mm)	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	-8.5	-	0	42
	11-20	3.4	-	0	12
	21-end	N/A	N/A	N/A	N/A
	Month	N/A	-	-	-
Kinsealy Co. Dublin	1-10	7.4	-	0	13
	11-20	8.1	-	0	4
	21-end	7.6	-	0	22
	Month	23.1	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	-3.3	-	0	86
	11-20	-4.9	-	0	30
	21-end	16.8	-	0	67
	Month	8.6	-	-	-
Ballinamore Co. Leitrim	1-10	-4.4	-	0	51
	11-20	0.8	-	0	36
	21-end	20.7	-	0	51
	Month	17.1	-	-	-
Glenamoy Co. Mayo	1-10	2.3	-	0	82
	11-20	0.3	-	0	48
	21-end	4.4	-	0	85
	Month	7.0	-	-	-
Johnstown Castle Co. Wexford	1-10				
	11-20	N/A	N/A	N/A	N/A
	21-end				
	Month				

Notes on the tables in January issue

* 9-day total (5th not available)

+30-day total (5th not available)

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 0.2mm and 1.0mm 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.* Starting in January 1983, degree day totals are calculated using the method set out in an article by I.F.C. McVicker in the Journal of Heating and Ventilating Engineers (Vol. 14 No. 18, Nov-Dec 1946).
- 5.* Monthly averages of degree days at stations marked "e" refer to the 25-year period 1958-1982 except at two stations.

a)	Cork Airport	1962-1982
b)	Casement Aerodrome	1964-1982

Percentages are not calculated for degree day totals less than 10.
6. Days with air frost are those during which the minimum air temperature was below 0.0°C.
7. "Ground" temperatures refer to temperatures measured with a thermometer placed horizontally on pegs just above the tips of short grass.
8. Days with ground frost are those during which the minimum "ground" temperature was below 0.0°C.
9. The mean daily soil temperature (at 10cm 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.
10. Mean daily wind speed over a period (ms^{-1}) is taken as the average of hourly values during the period at stations marked "e". Days with gale-gusts are those during which the wind speed exceeded 17.4 ms^{-1} at any time during the day. At other stations, mean daily wind speed is computed from once-daily readings of run-of-the-wind.
11. All wind speeds refer to the wind at 10 metres effective height above the ground 0. Where measurements are made at other heights, the wind speed readings are corrected to a height of 10 metres.
12. Deviations of monthly values of rainfall, 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. Averages of soil temperature refer to the period 1956-1975. Averages of rainfall refer to the period 1941-1970.
- 13.* Potential evapotranspiration (P.E.) values given in table 1 are calculated from values of temperature, sunshine, wind speed and vapour pressure using the Penman formula.

P.E. values given in table 3 are those measured by means of soil-filled tanks sunk into the ground with their upper grass-covered ends at surface level.
14. 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.
15. 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 which are 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.
- 16* Starting in January 1983, stations at Fermoy (Coolnakilla), Co. Cork, and Dundrum (Knockavilla), Co. Tepperary are included in the bulletin. The former is a hill station (height 210m).

* Changes for 1983