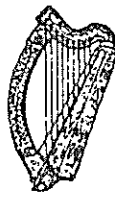


# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

DECEMBER 1982

### The Weather of December

The dominance of a ridge of high pressure from the 1st to 6th was interrupted on the 3rd by the onset of a southwesterly airflow, which was accompanied on the 4th by widespread heavy rain, otherwise

sharp air frost and severe ground frost occurred on most nights up to the morning of the 7th.

The weather from the 7th to 14th was changeable: Rain or showers were widespread from the 7th to 9th and southwest winds were strong and gusty; subsequently, (10th to 14th) showers were much more scattered.

High pressure developed over the country for much of 10th and 11th and on the 13th, but a northeasterly airflow prevailed on the 12th. There were long spells with useful drying conditions in the period from the 10th.

A strong west to northwest airflow set in on the 14th and dominated conditions to the 22nd. There were frequent squally showers of rain, hail or snow and daily maximum temperatures were well below normal after the 16th. Strong gales with storm gusts, especially in the west and north, occurred on the 18th and 19th.

There was a return to milder weather from the 23rd and winds gradually backed to the southwest, strong and gusty at times, and there were spells of rain or drizzle during the remainder of the month. Although remaining mostly mild, frost occurred locally on some nights where skies cleared.

Monthly Amounts of Precipitation were above normal generally except in parts of the east, south and south midlands, where amounts were below normal; in parts of the west and northwest, amounts were well above normal. Values varied from 145% of normal at Glenamoy to 84% at Oak Park. Wettest days were the 4th in southern regions, 7th throughout the country generally, 9th in parts of the south and west, 12th in the east, 14th and 19th generally and, in some widely scattered places, the 20th and 26th. Most wet days (days with 1.0mm or more of precipitation) occurred during the second ten-day interval.

Mean Monthly Temperature was well below normal at most stations. Values varied from 1.0°C below normal at Claremorris to 0.5°C below at Casement Aerodrome and at Birr. The anomalies would have been greater but for the onset of mild weather on the 23rd. Soil temperatures (at 100mm) were some 1.6°C below average up to 20th but in the last week of the month soil temperatures varied between 1.5°C and 2.0°C above average. Accumulated degree days (threshold 4.4°C) varied from 82% of average at Cahirciveen to 66% at Malin Head.

Mean Duration of Bright Sunshine was above normal in most areas except for the extreme southwest, west and northwest where it was well below normal. Values varied from 62% of normal at Cahirciveen to 126% at Casement Aerodrome. Global solar radiation amounted to 88% of average at Kilkenny (where sunshine was 111% of normal) and 109% of average at Birr (where sunshine was 104% of normal).

Widespread Gales or Gale Gusts occurred on the 4th, 7th, 8th and 14th to 21st - the gales being particularly widespread and strong on the 19th. Gales developed in many exposed places on 25th and 27th and, mostly in western and northern areas, from 29th to 31st.

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 in

TABLE 1

DECEMBER 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 <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	26.2	-	6	4	7.4	0.1	3.7	/	-2.2	3	4	1	0	-6.2	3	8	/	/	1.44	/	3	/
	11-20	32.1	-	8	7	8.0	0.5	4.2	/	-2.0	14	5	8	0	-6.0	14	7	/	/	2.27	/	7	/
	21-end	17.7	-	6	6	8.9	2.8	5.8	/	-1.8	23	2	19	0	-5.5	23	5	/	/	1.65	/	4	/
	Month	76.0	84	20	17	8.1	1.2	4.6	/	-2.2	3	11	28	0	-6.2	3	20	/	/	1.78	/	5	/
Shannon Airport Co. Clare	1-10	40.5	-	6	5	8.0	2.3	5.2	-	-1.0	6	2	14	0	-4.0	2	5	4.9	-	1.52	-	5	4
	11-20	82.5	-	9	9	7.9	2.4	5.1	-	-0.4	13	1	13	0	-4.4	18	5	4.5	-	1.66	-	8	6
	21-end	28.1	-	9	5	9.2	4.5	6.9	-	1.0	22	0	28	0	-3.4	23	4	5.9	-	1.13	-	5	2
	Month	151.1	134	24	19	8.4	3.1	5.8	-0.3	-1.0	6	3	54	0	-4.4	18	14	5.2	-0.6	1.43	101	6	12
Fermoy (Moore Park) Co. Cork	1-10	62.7	-	7	7	8.4	-0.3	4.1	/	-4.9	2	5	5	0	-7.4	2	10	/	/	0.91	/	2	/
	11-20	51.1	-	9	9	8.2	0.8	4.5	/	-2.7	18	5	9	2	-7.1	18	8	/	/	1.14	/	5	/
	21-end	15.7	-	6	6	9.7	3.3	6.5	/	-2.1	28	4	26	2	-6.6	22	6	/	/	1.25	/	2	/
	Month	129.5	117	22	22	8.8	1.4	5.1	/	-4.9	2	14	40	3	-7.4	2	24	/	/	1.11	/	3	/
Mallow Co. Cork	1-10	75.4	-	8	8	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	/	0.79	/	/	/
	11-20	50.9	-	9	9	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	/	1.06	/	/	/
	21-end	16.7	-	5	5	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	/	1.45	/	/	/
	Month	143.0	115	22	22	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	/	1.11	/	/	/
Roche's Point Co. Cork	1-10	61.7	-	7	7	8.7	3.2	5.9	-	1.0	6	0	17	0	-1.1	2	4	6.1	-	1.28	-	5	7
	11-20	29.8	-	8	6	8.5	3.4	6.0	-	0.7	17	0	18	1	-2.3	17	5	5.6	-	1.86	-	8	7
	21-end	15.5	-	6	3	9.5	5.2	7.3	-	1.6	22	0	33	1	-3.4	31	4	6.5	-	2.09	-	6	3
	Month	107.0	102	21	16	8.9	4.0	6.4	-0.9	0.7	17	0	68	2	-3.4	31	13	6.1	-0.6	1.75	106	6	17
Glencolumbkille Co. Donegal	1-10	83.8	/	9	9	7.7	2.7	5.2	/	1.3	3	0	10	0	-8.8	3	9	/	/	1.75	/	4	/
	11-20	66.3	/	10	10	7.8	1.7	4.7	/	-0.5	13	1	7	0	-10.0	13	10	/	/	0.78	/	7	/
	21-end	63.7	/	11	11	8.8	4.5	6.7	/	1.4	22	0	25	0	-6.2	23	7	/	/	0.20	/	4	/
	Month	213.8	/	30	30	8.1	3.0	5.6	/	-0.5	13	1	42	0	-10.0	13	26	/	/	0.89	/	5	/
Glenties Co. Donegal	1-10	75.0	-	8	7	7.2	0.1	3.6	/	-2.8	7	6	3	0	-4.0	7	8	/	/	1.61	/	/	/
	11-20	108.5	-	9	9	7.3	-1.1	3.1	/	-5.4	13	7	5	0	-6.4	13	8	/	/	0.77	/	/	/
	21-end	57.4	-	11	9	8.6	2.0	5.3	/	-2.3	23	4	14	0	-4.2	24	5	/	/	0.32	/	/	/
	Month	240.9	135	28	25	7.7	0.4	4.0	/	-5.4	13	17	22	0	-6.4	13	21	/	/	0.88	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

December 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 <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	44.0	-	7	6	7.4	2.4	4.9	-	-0.2	3	1	9	0	-4.6	3	7	4.0	-	1.97	-	9	7
	11-20	61.9	-	10	8	7.5	2.4	5.0	-	1.0	17	0	9	0	-2.1	13	7	3.9	-	0.57	-	12	7
	21-end	29.9	-	9	8	8.6	4.4	6.5	-	1.6	22	0	24	0	-1.7	23	3	5.4	-	0.12	-	10	8
	Month	135.8	113	26	22	7.9	3.1	5.5	-0.9	-0.2	3	1	42	0	-4.6	3	17	4.5	-1.0	0.86	87	10	22
Casement Aerodrome Co. Dublin	1-10	10.8	-	4	3	7.6	0.6	4.1	-	-3.7	6	4	7	0	-5.6	2	8	3.7	-	1.93	-	5	4
	11-20	41.1	-	9	7	6.7	1.2	3.9	-	-1.6	18	3	9	0	-4.1	14	7	3.5	-	2.02	-	9	6
	21-end	30.1	-	6	6	8.8	3.9	6.4	-	-1.7	23	2	27	0	-5.4	23	4	5.1	-	1.79	-	8	8
	Month	82.0	107	19	16	7.7	2.0	4.8	-0.5	-3.7	6	9	43	0	-5.6	2	19	4.1	-	1.91	126	7	18
Dublin Airport e Co. Dublin	1-10	12.8	-	6	3	7.6	1.7	4.7	-	-2.6	6	2	10	0	-5.1	3	8	4.0	-	1.83	-	4	2
	11-20	37.0	-	10	8	6.8	1.3	4.0	-	-1.1	18	3	9	0	-4.7	11	7	3.6	-	1.98	-	8	5
	21-end	22.7	-	5	4	8.8	4.0	6.4	-	-1.1	23	2	27	1	-2.5	23	4	5.0	-	1.94	-	5	1
	Month	72.5	94	21	15	7.8	2.4	5.1	-0.7	-2.6	6	7	46	1	-5.1	3	19	4.2	-0.6	1.92	115	6	8
Kinsealy Co. Dublin	1-10	15.1	-	5	4	7.9	0.9	4.4	/	-2.4	6	3	5	0	-6.8	6	8	/	/	1.78	/	4	/
	11-20	37.0	-	9	8	7.8	1.2	4.5	/	-1.2	19	4	10	0	-7.5	12	7	/	/	1.92	/	7	/
	21-end	24.0	-	6	5	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	-5.5	31	4	/	/	2.07	/	4	/	
	Month	76.1	104	20	17	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	-7.5	12	19	/	/	1.93	/	5	/	
Galway Co. Galway	1-10	48.5	-	7	6	7.8	1.5	4.6	-	-2.5	6	3	10	0	-3.6	6	7	4.8	-	2.15	-	5	3
	11-20	73.2	-	9	9	7.6	1.7	4.7	-	-0.4	13	1	9	0	-4.5	14	8	4.1	-	1.68	-	7	7
	21-end	29.4	-	9	9	8.6	4.4	6.5	-	0.5	22	0	26	0	-3.0	22	4	5.7	-	1.02	-	5	3
	Month	151.1	121	25	24	8.0	2.6	5.3	-0.9	-2.5	6	4	45	0	-4.5	14	19	4.9	-	1.60	117	6	13
Killarney (Muokross Use) Co. Kerry	1-10	88.9	/	7	6	9.9	2.3	6.1	/	-1.0	2	4	18	0	-5.2	2	6	/	/	1.10	/	/	/
	11-20	74.6	/	10	10	9.7	2.0	5.9	/	-1.5	18	3	17	2	-4.2	14	7	/	/	0.52	/	/	/
	21-end	42.9	/	8	7	10.7	5.6	8.1	/	0.1	31	0	41	3	-4.0	31	4	/	/	0.67	/	/	/
	Month	206.4	/	25	23	10.1	3.4	6.8	/	-1.5	18	7	76	5	-5.2	2	17	/	/	0.76	/	/	/
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	90.2	-	7	7	9.9	4.0	7.0	-	-0.3	6	1	26	0	-2.6	6	2	6.6	-	1.22	-	6	7
	11-20	65.2	-	10	10	9.4	3.6	6.5	-	0.8	13	0	22	0	-1.1	14	1	6.2	-	0.81	-	9	9
	21-end	52.5	-	11	9	10.2	5.1	7.6	-	-0.3	31	1	36	1	-2.0	31	1	7.3	-	0.44	-	7	6
	Month	207.9	130	28	26	9.8	4.3	7.1	-0.7	-0.3	6	2	84	1	-2.6	6	4	6.7	-0.2	0.81	62	7	22

Notes on the tables in January issue

TABLE 1 (Continued)

DECEMBER 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 <sup>-1</sup> )	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREES DAYS ABOVE 4.4°C	DEGREES DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE				
Ardfert (Lisochane) Co. Kerry	1-10	64.3	/	6	6	9.4	3.2	6.3	/	-1.0	6	1	19	0	-6.0	6	6	/	/	1.45	/	/	/
	11-20	72.6	/	10	10	9.0	2.7	5.9	/	-0.4	13	2	16	2	-7.6	13	4	/	/	0.89	/	/	/
	21-end	45.9	/	10	7	10.0	5.3	7.7	/	1.3	22	0	36	0	-5.6	31	4	/	/	0.64	/	/	/
	Month	182.8	/	26	23	9.5	3.8	6.6	/	-1.0	6	3	71	2	-7.6	13	14	/	/	0.98	/	/	/
Lullymore Co. Kildare	1-10	17.2	-	N/A	N/A	N/A	-0.7	N/A	/	-3.4	3	6	N/A	N/A	-9.0	3	9	/	/	1.26	/	3	/
	11-20	56.0	-	N/A	N/A	N/A	-0.6	N/A	/	-3.5	18	7	N/A	N/A	-8.0	11	8	/	/	N/A	/	7	/
	21-end	42.9	-	8	6	8.1	2.5	5.3	/	-2.2	23	3	15	0	-7.7	23	4	/	/	0.85	/	4	/
	Month	116.1	130	N/A	N/A	N/A	0.5	N/A	/	-3.5	18	16	N/A	N/A	-9.0	3	21	/	/	N/A	/	4	/
Kilkenny Co. Kilkenny	1-10	26.7	-	7	4	7.1	-0.1	3.5	-	-4.7	3	5	6	0	-10.6	3	10	3.3	-	0.98	-	2	3
	11-20	39.4	-	9	8	7.5	0.8	4.1	-	-2.7	14	5	9	0	-9.1	14	7	3.3	-	2.03	-	6	5
	21-end	18.6	-	7	5	9.1	3.6	6.3	-	-2.2	31	3	26	2	-7.4	23	6	5.0	-	2.03	-	4	1
	Month	84.7	95	23	17	7.9	1.5	4.7	-0.6	-4.7	3	13	41	2	-10.6	3	23	3.9	-0.7	1.69	111	4	9
Mooncoin (Silverspring) Co. Kilkenny	1-10	47.5	-	8	6	8.2	-0.3	4.0	/	-4.5	3	6	3	0	-8.4	3	9	/	/	1.24	/	/	/
	11-20	34.5	-	9	7	8.7	0.9	4.8	/	-2.4	14	5	11	1	-8.4	17	7	/	/	2.21	/	/	/
	21-end	8.6	-	7	3	9.5	1.9	5.7	/	-3.4	28	5	20	1	-8.1	23	7	/	/	1.99	/	/	/
	Month	90.6	88	24	16	8.8	0.9	4.8	/	-4.5	3	16	34	2	-8.4	3	23	/	/	1.82	/	/	/
Ballinamore Co. Leitrim	1-10	42.6	-	6	6	6.9	-1.4	2.7	/	-5.1	6	7	2	0	-6.0	3	7	/	/	1.64	/	2	/
	11-20	101.5	-	9	9	6.8	-0.2	3.3	/	-3.0	18	7	5	0	N/A		7	/	/	1.51	/	5	/
	21-end	44.5	-	11	10	8.3	2.8	5.5	/	-1.4	23	3	16	0	-3.5	31	3	/	/	0.92	/	3	/
	Month	188.6	149	26	25	7.3	0.4	3.9	/	-5.1	6	17	24	0	N/A		17	/	/	1.34	/	3	/
Ardee (Boharnamoe) Co. Louth	1-10	19.0	/	6	3	N/A	-0.7	N/A	/	-4.1	3	7	N/A	N/A	-5.2	3	8	/	/	/	/	/	/
	11-20	36.8	/	8	7	7.5	0.3	3.9	/	-1.9	17	6	7	0	-4.2	13	8	/	/	/	/	/	/
	21-end	21.1	/	11	7	9.9	2.8	6.3	/	-1.2	22	3	25	1	-1.5	23	5	/	/	/	/	/	/
	Month	76.9	/	25	17	N/A	0.9	N/A	/	-4.1	3	16	N/A	N/A	-5.2	3	21	/	/	/	/	/	/
Ballinrobe (Creagh) Co. Mayo	1-10	59.2	-	7	7	8.2	-1.8	3.2	/	-6.5	6	7	4	0	-9.1	6	8	/	/	1.08	/	3	/
	11-20	112.0	-	9	9	8.2	0.9	4.5	/	-2.5	13	5	10	1	-6.2	13	7	/	/	1.10	/	6	/
	21-end	47.6	-	10	8	9.6	3.3	6.4	/	-1.1	31	2	24	0	-5.5	31	6	/	/	0.40	/	4	/
	Month	218.8	151	26	24	8.7	0.9	4.8	/	-6.5	6	14	38	1	-9.1	6	21	/	/	0.85	/	4	/

Notes on the tables in January issue

TABLE I (Continued)

DECEMBER 1982

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 <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
Belmullet Co. Mayo	1-10	42.2	-	7	6	8.3	2.7	5.5	-	-2.0	6	1	14	0	-5.5	6	3	6.0	-	1.17	-	6	5
	11-20	69.4	-	9	9	8.2	1.9	5.0	-	-0.7	13	1	11	0	-4.0	13	4	5.2	-	0.86	-	10	7
	21-end	44.1	-	11	9	9.5	5.2	7.3	-	1.8	21	0	32	0	1.1	22	0	6.5	-	0.29	-	8	8
	Month	155.7	120	27	24	8.7	3.3	6.0	-0.8	-2.0	6	2	57	0	-5.5	6	7	5.9	-0.2	0.76	68	8	20
Claremorris Co. Mayo	1-10	52.8	-	8	7	6.6	-0.3	3.1	-	-5.0	6	6	5	0	-8.4	6	7	3.6	-	1.55	-	5	2
	11-20	76.6	-	9	9	6.6	0.2	3.4	-	-3.5	18	4	8	0	-8.4	18	7	3.2	-	1.12	-	8	6
	21-end	32.6	-	11	7	8.4	3.5	6.0	-	-0.4	23	2	22	0	-4.6	23	4	5.2	-	0.44	-	6	6
	Month	162.0	127	28	23	7.3	1.2	4.2	-1.0	-5.0	6	12	35	0	-8.4	6	18	4.0	-0.7	1.02	79	6	14
Glenamoy Co. Mayo	1-10	54.0	-	7	7	7.9	2.0	4.9	/	-3.0	6	3	9	0	-5.6	6	5	/	/	1.35	/	/	/
	11-20	110.7	-	10	9	8.1	1.4	4.8	/	-2.4	13	2	9	1	-4.5	13	5	/	/	1.05	/	/	/
	21-end	67.7	-	11	10	9.1	4.5	6.8	/	1.0	31	0	26	0	-0.9	22	3	/	/	0.30	/	/	/
	Month	232.4	146	28	26	8.4	2.7	5.5	/	-3.0	6	5	45	1	-5.6	6	13	/	/	0.88	/	/	/
Dunsany (Grange) Co. Meath	1-10	21.3	-	7	4	7.2	-0.5	3.3	/	-4.8	7	6	3	0	-9.9	6	8	/	/	1.90	/	N/A	/
	11-20	43.3	-	10	8	6.7	-0.1	3.3	/	-2.2	11	7	6	0	-9.4	11	7	/	/	1.85	/	N/A	/
	21-end	25.4	-	9	5	8.0	3.0	5.9	/	-3.0	23	2	16	0	-9.0	23	4	/	/	N/A	/	N/A	/
	Month	90.0	95	26	17	7.3	0.8	4.0	/	-4.8	7	15	25	0	-9.9	6	19	/	/	N/A	/	N/A	/
Clones Co. Monaghan	1-10	29.5	-	6	5	6.2	-0.5	2.8	-	-4.7	6	6	3	0	-8.3	6	7	4.1	-	1.64	-	3	2
	11-20	63.5	-	9	9	6.1	0.2	3.2	-	-2.4	18	6	6	0	-7.3	13	8	3.5	-	1.66	-	6	7
	21-end	24.7	-	9	5	8.3	3.4	5.8	-	-1.1	23	3	22	0	-4.4	23	4	5.2	-	1.04	-	4	4
	Month	117.7	121	24	19	6.9	1.1	4.0	-0.8	-4.7	6	15	30	0	-8.3	6	19	4.3	-0.1	1.43	124	4	13
Birr Co. Offaly	1-10	17.6	-	6	5	7.2	0.7	4.0	-	-4.3	2	3	7	0	-9.5	2	8	4.0	-	1.27	-	3	2
	11-20	42.8	-	9	8	7.0	0.8	3.9	-	-2.0	18	5	9	0	-8.3	13	7	3.7	-	1.99	-	4	4
	21-end	31.8	-	7	6	8.9	3.8	6.3	-	-1.6	23	2	26	1	-8.4	23	4	5.4	-	0.93	-	3	1
	Month	92.2	104	22	19	7.7	1.8	4.8	-0.5	-4.3	2	10	42	1	-9.5	2	19	4.4	-0.5	1.38	104	3	7

Notes on the tables in January issue

TABLE 1 (Continued)

DECEMBER 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 <sup>-1</sup> )	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MTN.	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	74.6	-	7	7	9.1	1.5	5.3	/	-3.6	6	4	11	0	-5.6	2	8	/	/	0.86	/	3	/
	11-20	49.8	-	10	7	8.8	1.6	5.2	/	-1.0	18	5	12	1	-5.5	17	7	/	/	1.84	/	4	/
	21-end	17.1	-	6	5	9.7	3.5	6.6	/	-1.0	31	3	26	2	-5.6	23	5	/	/	1.51	/	3	/
	Month	141.5	122	23	19	9.2	2.2	5.7	/	-3.6	6	12	50	3	-5.6	2	20	/	/	1.41	/	3	/
Mullingar <sup>e</sup> Co. Westmeath	1-10	26.6	-	7	4	6.6	-0.9	2.9	-	-4.3	2	6	4	0	-6.4	2	8	3.2	-	2.00	-	4	2
	11-20	58.8	-	9	9	6.2	-0.1	3.0	-	-2.7	18	7	6	0	-5.2	11	7	3.0	-	1.87	-	7	4
	21-end	33.3	-	9	5	8.0	3.2	5.6	-	-1.0	22	4	21	0	-5.2	31	5	4.8	-	1.37	-	5	2
	Month	118.7	116	25	18	7.0	0.8	3.9	-0.8	-4.3	2	17	31	0	-6.4	2	20	3.7	-0.7	1.74	119	5	8
J.F.K. Park Co. Wexford	1-10	43.0	-	6	6	8.2	1.6	4.9	/	-1.4	6	2	7	0	-6.6	3	10	/	/	1.53	/	4	/
	11-20	38.2	-	8	7	8.5	1.1	4.8	/	-1.4	11	5	11	1	-7.4	17	7	/	/	2.21	/	8	/
	21-end	13.8	-	6	4	8.7	3.1	5.9	/	-2.3	22	4	20	0	-8.6	22	7	/	/	1.85	/	5	/
	Month	95.0	88	20	17	8.5	2.0	5.2	/	-2.3	22	11	38	1	-8.6	22	24	/	/	1.86	/	6	/
Clonroche Co. Wexford	1-10	49.2	-	6	6	7.5	0.8	4.2	/	-3.0	6	3	4	0	-5.5	6	8	/	/	1.56	/	2	/
	11-20	43.1	-	10	6	7.9	1.3	4.6	/	-1.8	18	3	10	0	-6.4	18	7	/	/	2.12	/	4	/
	21-end	26.6	-	6	6	8.4	2.4	5.4	/	-1.7	22	5	17	0	-6.3	22	6	/	/	1.75	/	2	/
	Month	118.9	100	22	18	8.0	1.5	4.7	/	-3.0	6	11	31	0	-6.4	18	21	/	/	1.81	/	2	/
Johnstown Castle Co. Wexford	1-10	37.6	-	7	5	8.0	2.7	5.4	/	1.0	6	0	11	0	-4.5	1	8	/	/	1.16	/	4	/
	11-20	47.6	-	8	7	8.3	1.8	5.1	/	-0.5	18	3	11	0	-4.5	18	7	/	/	2.30	/	6	/
	21-end	19.4	-	6	3	8.5	3.4	6.0	/	-0.7	22	2	20	0	-4.4	22	5	/	/	1.63	/	5	/
	Month	104.6	89	21	15	8.3	2.7	5.5	/	-0.7	22	5	42	0	-4.5	1	20	/	/	1.69	/	5	/
Rosslare <sup>e</sup> Co. Wexford	1-10	44.6	-	6	5	8.9	4.4	6.7	-	2.2	9	0	23	0	-2.2	6	4	5.6	-	1.22	-	5	3
	11-20	39.2	-	8	5	8.5	2.7	5.6	-	0.2	17	0	16	1	-3.0	17	7	4.6	-	2.30	-	7	7
	21-end	12.0	-	4	3	8.8	4.4	6.6	-	-0.3	22	2	28	0	-4.8	23	4	5.7	-	1.97	-	6	4
	Month	95.8	95	18	13	8.7	3.9	6.3	-0.8	-0.3	22	2	67	1	-4.8	23	15	5.3	-0.8	1.84	98	6	14

Notes on the tables in January issue

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm <sup>2</sup>
Malin Head Co. Donegal	1-10	1802
	11-20	1182
	21-end	1153
	Month	4137
Dublin Airport Co. Dublin	1-10	1776
	11-20	1728
	21-end	1947
	Month	5451
Cahiriveen (Valentia Obs.) Co. Kerry	1-10	2030
	11-20	1553
	21-end	1649
	Month	5232
Kilkenny Co. Kilkenny	1-10	1612
	11-20	1922
	21-end	1887
	Month	5421
Belmullet Co. Mayo	1-10	1887
	11-20	1451
	21-end	1270
	Month	4608
Clones Co. Monaghan	1-10	1782
	11-20	1528
	21-end	1545
	Month	4855
Birr Co. Offaly	1-10	2270
	11-20	2317
	21-end	2002
	Month	6588

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

STATION	PERIOD	SOIL MOISTURE (mm)			
		P. E. (mm)	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	N/A	N/A	N/A	N/A
	11-20	N/A	N/A	N/A	N/A
	21-end	1.9	-	0	16
	Month	N/A	N/A	N/A	N/A
Kinsealy Co. Dublin	1-10	5.9	-	0	9
	11-20	2.0	-	0	35
	21-end	5.7	-	0	18
	Month	13.6	-	-	-
Cahiriveen (Valentia Obs.) Co. Kerry	1-10	10.0	-	0	73
	11-20	-5.6	-	0	72
	21-end	-9.2	-	0	46
	Month	-4.8	-	-	-
Ballinamore Co. Leitrim	1-10	-1.2	-	0	44
	11-20	-0.7	-	0	40
	21-end	2.0	-	0	41
	Month	0.1	-	-	-
Glenamoy Co. Mayo	1-10	-2.3	-	0	56
	11-20	-4.0	-	0	115
	21-end	-2.4	-	0	52
	Month	-8.7	-	-	-
Johnstown Castle Co. Wexford	1-10	9.3	-	0	28
	11-20	0.3	-	0	47
	21-end	4.6	-	0	15
	Month	14.2	-	-	-

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Notes on the tables in January issue

AN AGROCLIMATOLOGICAL SUMMARY FOR 1982

ACCUMULATIONS OF GIVEN PARAMETERS OVER PERIODS (a) JANUARY TO MAY<sup>(i)</sup> AND  
(b) JUNE TO DECEMBER. BRACKETS SHOW PERCENTAGE OF AVERAGE, EXCEPT FOR DAYS WITH AIR FROST.

	(a)	(b)	(a)	(b)	(a)	(b)	(a)	(b)
	Valentia Obs. Co. Kerry		Claremorris Co. Mayo		Kilkenny Co. Kilkenny		Dublin Airport Co. Dublin	
<u>DEGREE DAYS:-</u> Threshold 6°C <sup>(ii)</sup>	494(112)	1381(104)	364(117)	1180(107)	393(115)	1268(106)	386(120)	1294(106)
Threshold 10°C <sup>(iii)</sup>	125(123)	669(108)	99(130)	573(115)	113(118)	644(108)	107(126)	641(110)
<u>GLOBAL SOLAR RADIATION</u> KJoule/cm <sup>2</sup>	152(107)	204(98)	*146 -	*213 -	135(94)	207(93)	139(105)	202(100)
<u>PENMAN POTENTIAL EVAPOTRANSPIRATION</u> (mm)	226(101)	322(98)	168(98)	257(98)	196(110)	277(96)	246(117)	353(101)
<u>PRECIPITATION</u> (mm)	714(131)	1042(123)	514(128)	757(104)	289(90)	614(117)	199(71)	551(114)
<u>DAYS WITH AIR FROST</u> <sup>(iv)</sup>	6(11)	3(3)	20(30)	15(15)	28(33)	19(23)	14(20)	9(8)
<u>SOIL MOISTURE DEFICIT</u>	Valentia Co. Kerry		Glenamoy Co. Mayo		Oak Park Co. Carlow		Kinsealy Co. Dublin	
Maximum Value (mm)	39	49	38	75	43	79	70	86
Date of Maximum	30 April	31 July	30 April	31 July	10 May	10 August	10 May	10 August
Number of 10-day periods with 50mm Deficit or more <sup>(v)</sup>	0	0	0	3	0	6	4	8

Notes:

- (i) Approximately coincides with the change from the reproductive to the flowering state in grass.
- (ii) Threshold temperature representing General Grass Growth.
- (iii) Threshold temperature representing strong growth.
- (iv) Average number of days with air frost shown in brackets.
- (v) Soil moisture Deficits in excess of 50 mm limit the growth of many crops.

\* Global solar radiation for Belmullet, Co. Mayo.

- Not Available.

G. Griffith  
(Agmet)