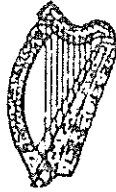


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The Weather of December 1983

Item Type	report
Publisher	Irish Meteorological Service
Rights	Y
Download date	2026-06-05 22:31:47
Link to Item	https://hdl.handle.net/20.500.14765/71093

METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

DECEMBER 1983

The Weather of December

The mild south to southwest airflow, which set in during the final days of November, continued to December 3rd. There were outbreaks of drizzle in all areas at first but these became confined to northwest coastal areas as a ridge extended from central Europe on 2nd bringing rather mild southerly winds from Biscay to Ireland. The ridge declining again, fronts were enabled to cross the country from the northwest late on 4th and early 5th and another ridge developed, this time from the North Atlantic, giving dry, rather cold weather up to 7th.

The changeable conditions were continued and a deepening wave depression passed over the country on 8th. This was followed by the onset of a northerly airflow, which was succeeded in turn by a ridge on 9th. A frontal rainbelt affected Ireland on 11th. Its occluding wave to the southwest of the country gave heaviest rainfalls generally in southwestern regions. This system was followed by a further short spell of northerlies. With rising pressure over the country, winds moderated on 12th, but further changeable weather occurred, including thundery conditions in western areas on 14th.

Weather conditions associated with a complex area of low pressure, centred to the southwest or in the vicinity of Ireland, ensued. Frontal troughs and strengthening southwest winds set in on 15th and affected the country up to 23rd. As the depressions began to be centred more to the northwest of the country, an extensive warm and humid airmass, and moderate southwest winds, reached the country on 24th. The mild conditions predominated to the end of the month with minor interruptions only by short spells of fresher westerly winds.

Monthly Amounts of Precipitation were above normal almost everywhere, and well above normal in the east, part of the midlands and in the extreme southwest. Amounts varied from 172% of normal at Kinseely to 95% at Mooncoin, Silverspring. Wettest spells generally were 8th/9th, 11th, 13th, 20th, and 24th; there were regionally heavy falls at other times, especially in the south and southwest from 14th-17th. Lightest falls generally occurred between 1st-7th, except perhaps on 5th, and between 25th-31st.

Mean Monthly Air Temperature was well above normal varying from 1.9C° above at Birr and Clones to 1.0C° above at Belmullet. Air frost was infrequent, apart from at Glencolumcille, and was most widespread on 6th, while ground frost was generally sharp on 6th/7th, 10th-12th, 15th/16th, and in the south midlands on 20th, 29th and 30th. Degree day accumulations were well above average everywhere, those with threshold 4.4C° being some 50% above average. Soil temperatures (100mm) varied from 2.3C° above at Clones to 1.2C° above at Shannon Airport and Malin Head; these were 3-4C° above both in the first 5 days and in the last 5 days of the month, the coldest spell occurring from 11th-15th.

Mean Duration of Bright Sunshine was well below normal at most stations except in parts of the midlands and east; the improved sunshine in the latter regions arose from sunnier conditions in the last week. Values varied from 65% of normal at Valentia to 109% at Kilkenny. Global radiation was below normal except at Kilkenny, where it was near normal.

Gales occurred regionally on a number of days, being most widespread on 22nd, while strong winds with gale gusts occurred frequently.

Summary Dull, very mild, wet and rather windy.

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 (CONTINUED)

DECEMBER 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. (PENMAN) (mm)					
						MEAN MAX.	MEAN MIN.	MEAN DAILY	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			
Glenties Co. Donegal	1-10	52.2	-	9	6	9.7	6.1	7.9	-	-0.8	6	1	40	-	5	-	-2.8	7	3	-	-	0.31	-	-	-	-	-	-	-
	11-20	101.7	-	8	7	7.8	3.4	5.6	-	0.9	11	0	16	-	1	-	-1.3	15	4	-	-	0.09	-	-	-	-	-	-	-
	21-END	86.5	-	11	10	10.3	4.8	7.5	-	2.7	22	0	36	-	2	-	-0.4	22	2	-	-	0.22	-	-	-	-	-	-	-
	MONTH	240.4	134	28	23	9.3	4.8	7.0	-	-0.8	6	1	91	-	7	-	-2.8	7	9	-	-	0.21	-	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	16.1	-	7	3	10.8	6.4	8.6	-	1.4	7	0	44	-	6	-	-2.0	7	1	7.8	-	0.61	-	10.1	9	-	-	-	-
	11-20	54.0	-	8	6	8.6	4.5	6.5	-	1.9	11	0	23	-	1	-	-2.0	15	3	5.2	-	0.69	-	10.9	9	-	-	-	-
	21-END	60.3	-	11	10	10.2	5.8	8.0	-	3.4	30	0	40	-	3	-	0.5	21	0	7.1	-	0.69	-	10.3	8	-	-	-	-
	MONTH	130.4	109	26	19	9.9	5.6	7.7	+1.3	1.4	7	0	107	155	9	-	-2.0	7	4	6.7	+1.2	0.66	67	10.4	26	15	-	-	-
Casement Aerodrome Co. Dublin	1-10	39.9	-	4	3	10.6	4.1	7.3	-	-1.6	6	3	37	-	5	-	-7.0	7	4	6.9	-	1.69	-	6.0	5	-	-	-	-
	11-20	56.3	-	9	8	8.4	3.3	5.8	-	-0.2	11	1	19	-	1	-	-3.4	11	8	5.3	-	1.35	-	7.1	6	-	-	-	-
	21-END	24.3	-	7	6	10.6	5.4	8.0	-	2.2	30	0	41	-	4	-	-0.6	30	2	6.9	-	1.85	-	9.6	8	-	-	-	-
	MONTH	120.5	156	20	17	9.9	4.3	7.1	+1.8	-1.6	6	4	97	152	10	250	-	-7.0	7	14	6.4	-	1.64	108	7.6	19	5	-	-
Dublin Airport Co. Dublin	1-10	37.7	-	5	3	10.6	5.1	7.9	-	0.1	6	0	39	-	6	-	-4.6	7	4	6.8	-	1.56	-	5.3	1	-	-	-	-
	11-20	55.3	-	9	8	8.5	3.8	6.1	-	0.4	12	0	22	-	1	-	-4.2	15	8	5.3	-	1.27	-	6.4	6	-	-	-	-
	21-END	36.7	-	8	6	10.7	5.7	8.2	-	2.8	30	0	43	-	4	-	-0.1	24	1	6.9	-	1.82	-	8.2	7	-	-	-	-
	MONTH	129.7	168	22	17	10.0	4.9	7.4	+1.6	0.1	6	0	103	158	11	275	-	-4.6	7	13	6.4	+1.6	1.56	94	6.7	14	7	-	-
Kinsealy Co. Dublin	1-10	33.0	-	4	2	10.3	3.9	7.1	-	-3.0	7	3	33	-	4	-	-6.5	4	6	-	-	1.83	-	3.4	-	-	-	-	-
	11-20	52.2	-	8	6	8.9	1.7	5.3	-	-1.2	15	3	17	-	1	-	-5.4	15	8	-	-	1.22	-	5.4	-	-	-	-	-
	21-END	40.0	-	9	6	11.4	5.7	8.5	-	2.3	30	0	47	-	6	-	-4.0	24	3	-	-	1.89	-	5.3	-	-	-	-	-
	MONTH	125.2	172	21	14	10.2	3.8	7.0	-	-3.0	7	6	97	-	11	-	-6.5	4	17	-	-	1.65	-	4.7	-	-	-	-	-
Galway Co. Galway	1-10	57.6	-	5	5	10.6	5.8	8.2	-	-0.2	6	1	41	-	5	-	-3.5	6	2	8.5	-	1.47	-	5.2	0	-	-	-	-
	11-20	54.9	-	9	8	8.2	3.2	5.7	-	-0.5	20	1	18	-	1	-	-1.9	12	4	5.7	-	0.68	-	5.3	3	-	-	-	-
	21-END	40.5	-	10	7	10.4	6.5	8.5	-	4.2	30	0	45	-	2	-	-1.1	22	2	7.6	-	0.65	-	7.1	8	-	-	-	-
	MONTH	153.0	122	24	20	9.8	5.2	7.5	+1.3	-0.5	20	2	104	-	8	-	-3.5	6	8	7.2	-	0.92	67	5.9	11	1	-	-	-
Killarney (Muckross House) Co. Kerry	1-10	58.4	-	6	5	11.8	7.4	9.6	-	-0.2	6	1	54	-	13	-	-2.1	6	3	-	-	0.78	-	-	-	-	-	-	-
	11-20	142.9	-	9	6	9.2	3.7	6.4	-	0.8	17	0	23	-	1	-	-1.4	17	3	-	-	0.24	-	-	-	-	-	-	-
	21-END	40.0	-	8	6	11.8	7.0	9.4	-	4.1	21	0	55	-	7	-	-0.3	21	1	-	-	0.89	-	-	-	-	-	-	-
	MONTH	241.3	-	23	17	10.9	6.1	8.5	-	-0.2	6	1	133	-	20	-	-2.1	6	7	-	-	0.65	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

DECEMBER 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. (PENMAN) (mm)			
						MEAN MAX.	MEAN MIN.	MEAN DAILY	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	
																											MEAN DAILY
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	43.9	-	7	5	11.8	8.2	10.0	-	2.0	6	0	57	-	12	-	-2.0	6	2	9.8	-	1.12	-	6.9	3	-	
	11-20	156.7	-	10	9	9.9	4.8	7.3	-	2.2	17	0	31	-	2	-	0.2	15	0	7.0	-	0.53	-	6.7	7	-	
	21-END	36.9	-	8	7	11.5	7.6	9.6	-	4.1	22	0	57	-	6	-	2.5	21	0	8.4	-	0.91	-	7.0	6	-	
	MONTH	237.5	148	25	21	11.1	6.9	9.0	+1.2	2.0	6	0	144	137	20	250	-2.0	6	2	8.4	+1.5	0.85	65	6.9	16	14	
Ardfert (Liscahane) Co. Kerry	1-10	47.6	-	4	4	11.7	7.2	9.5	-	-0.6	6	1	54	-	13	-	-7.0	6	3	-	-	1.51	-	-	-	-	
	11-20	75.9	-	9	7	9.1	3.7	6.4	-	1.9	20	0	22	-	1	-	-3.8	20	4	-	-	0.67	-	-	-	-	
	21-END	31.5	-	7	6	11.6	5.9	8.7	-	1.4	21	0	48	-	5	-	-2.8	21	3	-	-	1.21	-	-	-	-	
	MONTH	155.0	-	20	17	10.8	5.6	8.2	-	-0.6	6	1	124	-	19	-	-7.0	6	10	-	-	1.13	-	-	-	-	
Lullymore Co. Kildare	1-10	43.0	-	4	3	9.6	3.9	6.8	-	-3.6	7	3	32	-	3	-	-8.0	6	3	-	-	0.66	-	3.9	-	-	
	11-20	48.5	-	8	7	7.6	1.5	4.5	-	-1.5	11	3	10	-	0	-	-5.5	11	7	-	-	0.98	-	4.5	-	-	
	21-END	33.6	-	8	7	11.2	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	-	-1.5	24	3	-	-	1.32	-	5.4	-	-
	MONTH	125.1	141	20	17	9.5	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	-	-8.0	6	13	-	-	1.00	-	4.6	-	N/A
Kilkenny Co. Kilkenny	1-10	30.7	-	4	4	10.6	4.2	7.4	-	-3.2	7	2	37	-	5	-	-7.0	7	4	7.2	-	1.50	-	4.0	2	-	
	11-20	71.5	-	8	6	8.4	2.1	5.2	-	-1.4	11	3	17	-	1	-	-6.2	11	6	5.2	-	0.75	-	4.3	6	-	
	21-END	18.4	-	5	5	11.0	4.6	7.8	-	1.5	22	0	39	-	5	-	-2.4	29	7	6.5	-	2.64	-	4.2	4	-	
	MONTH	120.6	136	17	15	10.0	3.7	6.8	+1.5	-3.2	7	5	93	145	11	220	-7.0	7	17	6.3	+1.7	1.66	109	4.1	12	-1	
Mooncoin (Silverspring) Co. Kilkenny	1-10	10.7	-	5	2	10.6	5.6	8.1	-	-2.6	7	2	42	-	5	-	-6.0	7	3	-	-	1.05	-	-	-	-	
	11-20	72.4	-	10	9	8.7	1.3	5.0	-	-2.4	11	1	15	-	0	-	-6.8	11	8	-	-	0.77	-	-	-	-	
	21-END	14.9	-	5	3	11.7	4.4	8.0	-	1.2	22	0	42	-	6	-	-3.9	22	8	-	-	2.87	-	-	-	-	
	MONTH	98.0	95	20	14	10.4	3.8	7.1	-	-2.6	7	3	99	-	11	-	-6.8	11	19	-	-	1.61	-	-	-	-	
Ballinamore Co. Leitrim	1-10	38.8	-	6	4	10.1	4.5	7.3	-	-3.2	7	2	35	-	3	-	-6.6	6	3	-	-	1.48	-	3.3	-	-	
	11-20	40.8	-	7	6	7.6	2.0	4.8	-	-1.8	11	2	13	-	0	-	-5.5	11	6	-	-	0.52	-	3.1	-	-	
	21-END	66.5	-	11	8	10.3	5.0	7.7	-	0.3	24	0	38	-	3	-	-2.1	24	4	-	-	0.67	-	3.9	-	-	
	MONTH	146.1	115	24	18	9.4	3.9	6.6	-	-3.2	7	4	86	-	7	-	-6.6	6	13	-	-	0.88	-	3.4	-	-2	
Ardee (Boharnamoe) Co. Louth	1-10	46.0	-	4	3	11.3	4.3	7.8	-	-4.2	7	2	40	-	5	-	-4.9	7	3	-	-	-	-	-	-	-	
	11-20	39.8	-	7	7	8.3	1.7	5.0	-	-2.8	15	2	15	-	1	-	-3.0	15	4	-	-	-	-	-	-	-	
	21-END	34.3	-	10	6	11.1	4.4	7.8	-	0.6	24	0	41	-	5	-	-1.2	29	2	-	-	-	-	-	-	-	
	MONTH	120.1	-	21	16	10.3	3.5	6.9	-	-4.2	7	4	96	-	11	-	-4.9	7	9	-	-	-	-	-	-	-	

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

DECEMBER 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. (PENMAN) (mm)			
						MEAN MAX.	MEAN MIN.	MEAN DAILY	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
Ballinrobe (Creagh) Co. Mayo	1-10	56.3	-	7	6	10.6	5.7	8.2	-	-2.8	6	2	42	-	6	-	-8.2	6	4	-	-	0.64	-	3.2	-	-
	11-20	85.4	-	10	8	8.3	2.8	5.6	-	-1.4	15	1	17	-	1	-	-7.7	15	3	-	-	0.21	-	4.2	-	-
	21-END	52.3	-	11	9	11.0	5.8	8.4	-	1.8	24	0	45	-	4	-	-1.8	24	3	-	-	0.38	-	5.2	-	-
	MONTH	194.0	134	28	23	10.0	4.8	7.4	-	-2.8	6	3	105	-	11	-	-8.2	6	10	-	-	0.41	-	4.2	-	3
Belmullet Co. Mayo	1-10	40.5	-	9	5	10.9	6.5	8.7	-	0.3	6	0	45	-	7	-	-4.0	6	2	9.0	-	0.79	-	7.6	5	-
	11-20	62.0	-	8	7	8.4	4.0	6.2	-	2.3	17	0	20	-	1	-	-1.4	17	1	6.5	-	1.05	-	6.7	6	-
	21-END	49.0	-	9	8	10.8	6.2	8.5	-	3.2	21	0	45	-	4	-	-0.8	22	2	7.8	-	0.33	-	8.6	8	-
	MONTH	151.5	117	26	20	10.0	5.6	7.8	+1.0	0.3	6	0	110	138	11	275	-4.0	6	5	7.7	+1.6	0.71	64	7.6	19	6
Claremorris Co. Mayo	1-10	45.6	-	5	4	10.4	5.1	7.7	-	-1.5	6	2	39	-	6	-	-5.6	6	4	7.8	-	0.83	-	5.5	3	-
	11-20	56.7	-	8	6	7.6	2.9	5.3	-	-0.4	15	1	15	-	1	-	-2.3	15	6	5.0	-	0.29	-	5.9	4	-
	21-END	42.4	-	9	8	10.1	5.4	7.8	-	1.4	22	0	39	-	3	-	-1.3	22	3	6.9	-	0.36	-	7.3	7	-
	MONTH	144.7	113	22	18	9.4	4.5	6.9	+1.7	-1.5	6	3	93	166	9	-	-5.6	6	13	6.6	+1.9	0.49	38	6.3	14	-2
Glenamoy Co. Mayo	1-10	55.3	-	9	9	10.8	6.7	8.8	-	-1.0	6	2	47	-	8	-	-3.4	6	3	-	-	0.49	-	4.9	-	-
	11-20	82.9	-	9	8	8.2	2.9	5.6	-	1.0	15	0	15	-	1	-	-1.0	15	4	-	-	0.81	-	4.8	-	-
	21-END	68.2	-	11	10	10.8	5.2	8.0	-	3.1	24	0	41	-	3	-	-0.4	22	1	-	-	0.29	-	5.6	-	-
	MONTH	206.4	130	29	27	10.0	5.0	7.5	-	-1.0	6	2	103	-	12	-	-3.4	6	8	-	-	0.52	-	5.1	-	0
Dunsany (Grange) Co. Meath	1-10	48.5	-	4	2	9.3	3.3	6.3	-	-2.9	6	4	28	-	2	-	-7.3	6	3	-	-	0.74	-	-	-	-
	11-20	44.6	-	8	8	7.6	1.8	4.7	-	-0.9	12	3	11	-	0	-	-4.5	11	6	-	-	1.03	-	-	-	-
	21-END	47.4	-	9	8	10.2	4.5	7.4	-	1.2	30	0	35	-	3	-	-2.4	24	2	-	-	1.17	-	-	-	-
	MONTH	140.5	148	21	18	9.1	3.3	6.2	-	-2.9	6	7	74	-	5	-	-7.3	6	11	-	-	0.99	-	-	-	-
Clones Co. Monaghan	1-10	39.3	-	5	3	9.9	4.7	7.3	-	-1.1	6	2	35	-	3	-	-6.5	7	3	7.5	-	1.36	-	3.8	1	-
	11-20	29.2	-	8	7	7.6	2.7	5.2	-	-0.6	11	3	15	-	1	-	-4.9	15	5	5.5	-	0.67	-	4.2	4	-
	21-END	46.7	-	10	8	10.0	4.8	7.4	-	2.0	24	0	35	-	2	-	-2.5	24	3	7.0	-	0.72	-	4.9	6	-
	MONTH	115.2	119	23	18	9.2	4.1	6.7	+1.9	-1.1	6	5	85	173	6	-	-6.5	7	11	6.7	+2.3	0.91	78	4.3	11	-1
Birr Co. Offaly	1-10	46.4	-	4	3	10.8	4.8	7.8	-	-1.8	6	1	40	-	6	-	-7.3	7	3	7.6	-	0.89	-	5.0	2	-
	11-20	49.6	-	8	6	8.1	2.8	5.5	-	0.5	11	0	17	-	1	-	-4.6	20	6	5.1	-	1.07	-	5.9	7	-
	21-END	30.7	-	6	6	10.7	5.8	8.3	-	1.9	30	0	43	-	5	-	-1.7	30	2	7.0	-	0.98	-	6.2	7	-
	MONTH	126.7	142	18	15	9.9	4.5	7.2	+1.9	-1.8	6	1	100	159	12	300	-7.3	7	11	6.6	+1.7	0.98	74	5.7	16	4

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

DECEMBER 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. (PENMAN) (mm)										
						MEAN MAX.	MEAN MIN.	MEAN DAILY	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	30.3	-	6	4	10.5	4.7	7.6	-	-3.5	6	2	39	-	6	-	-6.5	7	5	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11-20	61.6	-	8	7	7.8	0.4	4.1	-	-1.6	11	6	11	-	1	-	-6.1	11	8	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	23.5	-	6	5	11.3	4.1	7.7	-	0.7	22	0	40	-	6	-	-3.9	30	6	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	115.4	-	20	16	9.9	3.1	6.5	-	-3.5	6	8	89	-	12	-	-6.5	7	19	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dungarvan (Carriglea) Co. Waterford	1-10	17.8	-	5	5	10.9	6.1	8.5	-	-0.6	7	2	45	-	6	-	-1.6	10	3	-	-	1.26	-	2.8	-	-	-	-	-	-	-	-		
	11-20	78.4	-	10	10	8.7	1.0	4.9	-	-2.4	11	4	15	-	1	-	-3.0	11	6	-	-	0.83	-	3.6	-	-	-	-	-	-	-	-		
	21-END	23.2	-	6	5	11.5	4.7	8.1	-	0.1	21	0	43	-	5	-	-0.6	22	2	-	-	2.40	-	3.0	-	-	-	-	-	-	-	-		
	MONTH	119.4	103	21	20	10.4	4.0	7.2	-	-2.4	11	6	104	-	12	-	-3.0	11	11	-	-	1.53	-	3.2	-	-	-	-	-	-	-	-	-	
Mullingar Co. Westmeath	1-10	48.4	-	4	4	10.2	3.8	7.0	-	-3.6	7	3	35	-	4	-	-5.9	7	3	7.0	-	1.11	-	4.8	2	-	-	-	-	-	-	-		
	11-20	38.8	-	8	8	7.5	2.4	5.0	-	-1.9	11	2	14	-	1	-	-3.7	15	5	4.9	-	0.84	-	5.5	4	-	-	-	-	-	-	-	-	
	21-END	37.6	-	10	7	9.9	4.7	7.3	-	0.7	23	0	34	-	3	-	-0.9	24	1	6.7	-	1.39	-	6.7	6	-	-	-	-	-	-	-	-	
	MONTH	124.8	122	22	19	9.2	3.7	6.4	+1.7	-3.6	7	5	83	166	7	-	-5.9	7	9	6.2	+1.8	1.12	77	5.7	12	-	-	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	17.5	-	4	3	9.9	6.1	8.0	-	-0.2	10	1	39	-	2	-	-6.2	7	3	-	-	1.31	-	5.9	-	-	-	-	-	-	-	-	-	
	11-20	84.9	-	9	9	8.5	1.8	5.1	-	0.0	11	0	14	-	0	-	-7.5	12	8	-	-	1.01	-	6.4	-	-	-	-	-	-	-	-	-	
	21-END	17.1	-	6	3	10.9	4.8	7.8	-	1.6	30	0	39	-	3	-	-6.1	30	9	-	-	2.26	-	6.9	-	-	-	-	-	-	-	-	-	
	MONTH	119.5	111	19	15	9.8	4.2	7.0	-	-0.2	10	1	93	-	6	-	-7.5	12	20	-	-	1.55	-	6.4	-	-	-	-	-	-	-	-	-	2
Clonroche Co. Wexford	1-10	22.0	-	4	3	9.2	5.0	7.1	-	-0.4	7	2	32	-	1	-	-6.4	7	4	-	-	1.02	-	2.4	-	-	-	-	-	-	-	-	-	
	11-20	97.9	-	9	9	8.0	1.4	4.7	-	-1.5	11	2	12	-	0	-	-7.5	11	8	-	-	0.95	-	3.0	-	-	-	-	-	-	-	-	-	
	21-END	25.3	-	7	6	10.7	4.8	7.7	-	1.1	22	0	39	-	3	-	-3.0	22	5	-	-	2.19	-	2.9	-	-	-	-	-	-	-	-	-	
	MONTH	145.2	122	20	18	9.3	3.8	6.5	-	-1.5	11	4	82	-	4	-	-7.5	11	17	-	-	1.41	-	2.8	-	-	-	-	-	-	-	-	N/A	
Johnstown Castle Co. Wexford	1-10	16.3	-	4	3	9.7	6.2	8.0	-	0.9	10	0	38	-	2	-	-3.0	7	3	-	-	1.41	-	5.5	-	-	-	-	-	-	-	-	-	
	11-20	87.9	-	9	9	8.6	3.1	5.8	-	0.9	11	0	18	-	0	-	-4.0	13	8	-	-	1.20	-	6.0	-	-	-	-	-	-	-	-	-	
	21-END	22.1	-	7	4	10.4	5.4	7.9	-	2.0	30	0	39	-	2	-	-2.1	30	5	-	-	2.45	-	5.4	-	-	-	-	-	-	-	-	-	
	MONTH	126.3	115	20	16	9.6	4.9	7.3	-	0.9	10	0	96	-	4	-	-4.0	13	16	-	-	1.71	-	5.6	-	-	-	-	-	-	-	-	-	-
Rosslare Co. Wexford	1-10	15.8	-	4	2	10.8	6.9	8.8	-	2.1	10	0	45	-	5	-	-2.3	7	1	8.2	-	1.83	-	6.6	5	-	-	-	-	-	-	-	-	
	11-20	79.9	-	10	8	9.4	4.7	7.1	-	1.8	11	0	28	-	1	-	-1.8	11	4	6.5	-	1.22	-	6.8	8	-	-	-	-	-	-	-	-	
	21-END	24.9	-	6	4	10.6	6.8	8.7	-	4.1	22	0	47	-	3	-	1.5	30	0	7.7	-	2.45	-	6.3	5	-	-	-	-	-	-	-	-	-
	MONTH	120.6	119	20	14	10.3	6.2	8.2	+1.1	1.8	11	0	120	138	9	-	-2.3	7	5	7.5	+1.4	1.85	99	6.5	18	-	-	-	-	-	-	-	-	4

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	1074
	11-20	966
	21-end	1276
	Month	3316
Dublin Airport Co. Dublin	1-10	1823
	11-20	1326
	21-end	2040
	Month	5189
Gahirciveen (Valentia Obs.) Co. Kerry	1-10	1700
	11-20	1422
	21-end	1996
	Month	5118
Kilkenny Co. Kilkenny	1-10	1984
	11-20	1253
	21-end	2972
	Month	6209
Belmullet Co. Mayo	1-10	1520
	11-20	1418
	21-end	1544
	Month	4482
Clones Co. Monaghan	1-10	1608
	11-20	1117
	21-end	1678
	Month	4403
Birr Co. Offaly	1-10	1804
	11-20	1476
	21-end	2029
	Month	5309

Notes on the tables in January issue

Table 4: Notes

*Mean of readings at 0300,0900,1500,2100GMT at 100mm depth,
**°C/100mm; positive, increasing with depth.

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

STATION	PERIOD	SOIL MOISTURE (mm)			
		P.E.(mm)	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	0.6	-	0	33
	11-20	3.0	-	0	49
	21-end	-4.0	-	0	41
	Month	-0.4	-	-	-
Kinsealy Co. Dublin	1-10	1.9	-	0	31
	11-20	6.4	-	0	31
	21-end	11.5	-	0	36
	Month	19.8	-	-	-
Gahirciveen (Valentia Obs.) Co. Kerry	1-10	-4.3	-	0	40
	11-20	13.6	-	0	148
	21-end	-3.7	-	0	37
	Month	5.6	-	-	-
Ballinamore Co. Leitrim	1-10	-1.1	-	0	39
	11-20	3.7	-	0	33
	21-end	0.5	-	0	66
	Month	3.2	-	-	-
Glenamoy Co. Mayo	1-10	3.5	-	0	52
	11-20	1.4	-	0	84
	21-end	0.1	-	0	56
	Month	5.0	-	-	-
Johnstown Castle Co. Wexford	1-10	4.0	-	0	12
	11-20	11.4	-	0	80
	21-end	-2.3	-	0	21
	Month	13.1	-	-	-

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Table 4 SOIL CLIMATE (MULLINGAR)

Bare Soil Type	Period	MEAN			Temperature Gradient ** (to 200mm)	Soil Water Potential (hPa) (at depths)	
		MAX.	Daily*	Min.		75mm	200mm
Peat	1-10	8.1	7.1	6.2	+0.9	65	64
	11-20	6.1	4.9	4.1	+1.0	61	61
	21-end	6.9	6.5	5.6	+0.4	65	59
Mineral	1-10	8.9	7.3	6.0	+0.6	96	59
	11-20	6.2	5.3	4.2	+0.7	87	51
	21-end	7.9	7.0	5.9	+0.3	77	65

AN AGROCLIMATOLOGICAL SUMMARY FOR 1983

ACCUMULATIONS OF GIVEN PARAMETERS OVER PERIODS (a) JANUARY TO MAY⁽ⁱ⁾ 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 5°C ⁽ⁱⁱ⁾	368(83)	1549(119)	272(89)	1367(124)	295(86)	1466(120)	280(87)	1475(120)
Threshold 10°C ⁽ⁱⁱⁱ⁾	62(61)	800(129)	50(66)	709(142)	59(61)	783(120)	57(67)	786(150)
<u>GLOBAL SOLAR RADIATION</u> KJoule/cm ²	126(89)	212(102)	*134 -	*190 -	118(84)	205(97)	122(91)	204(101)
<u>PENMAN POTENTIAL EVAPOTRANSPIRATION</u> (mm)	172(77)	330(101)	158(92)	271(104)	162(91)	305(106)	197(93)	372(107)
<u>PRECIPITATION</u> (mm)	566(102)	861(106)	434(107)	619(98)	403(120)	537(101)	315(115)	392(82)
<u>DAYS WITH AIR FROST</u> ^(iv)	7(11)	1(3)	22(30)	8(15)	21(33)	10(23)	14(20)	2(8)
<u>SOIL MOISTURE DEFICIT</u>	VALENTIA	CO. KERRY	GLENAMOY	CO. MAYO	OAKPARK, CO CARLOW	KINSEALY, CO DUBLIN		
Maximum Value (mm)	11	78	20	66	16	104	24	97
Date of Maximum	21 Feb.	10 Aug.	31 May	10 Aug.	19 May	10 Aug	31 May	10 Aug.
Number of 10-day periods with 50mm Deficit or more ^(v)	0	2	0	5	0	6	0	6

Notes:

- (i) Approximately coincides with the change from the reproductive to the flowering state in grass. Annual Weather Summary
- (ii) Threshold temperature representing General Grass Growth. The year was notable for its very mild January, the prolonged cold, dull and wet Spring, the fine warm and dry summer period from June 17 to August 14, and the exceptionally mild but dull months of November and December.
- (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.