

METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

JANUARY 1982

The Weather of January

From the 1st to the 5th the weather was cloudy and mild. Southwesterly winds were gusty at times and widespread rain, was particularly heavy on the 2nd and 3rd.

A very cold spell set in on the 6th and widespread heavy falls of snow occurred, beginning in southern regions on the 7th and extending to most regions on the 8th. Strong to gale force easterly winds caused extensive blizzards on the 8th and 9th, especially in the southeast, east and midland regions, giving snow drifts in some areas of between 2 and 5 metres. Falls of snow were least in the west and northwest, where some areas escaped entirely. Subsequently, a spell of very cold, dry and bright weather became established on the 10th. The widespread snow remained lying on the ground and there was sharp to very severe air and ground frost up to the 14th. A slow thaw then set in from the southwest, the thaw becoming general on the 15th and 16th.

A south to southwesterly airflow dominated from the 16th to 21st. Most nights were without frost and there were outbreaks of rain and drizzle, which were especially heavy in the south and west on the 18th. Subsequently the weather became changeable, with showers or longer spells of rain, southwest to west winds, and temperatures mostly above normal up to the end of the month.

Monthly Amounts of Precipitation were below normal everywhere except in parts of the south and southwest and in the north-midlands. Amounts varied from 117% of normal at Valentia Observatory to 59% of normal at Glenamoy. The number of wet days and rain days were each below average for January. Widespread snow remained on the ground from the 8th to 15th.

Mean Monthly Air Temperature was above normal everywhere except in parts of the west and northwest. Values varied from 0.4 °C above normal at Dublin Airport to 0.3 °C below normal at Belmullet and Galway. Soil temperature (100mm) varied from 0.4 °C above normal at Valentia Observatory and at Rosslare to 0.5 °C below normal at Malin Head. Following the very cold spell, ending on the 15th, soil temperatures recovered and by the end of the month were some 2 °C above average, giving an early start to grass growth.

Mean Duration of Bright Sunshine was below normal in most places, varying from 62% of normal at Kilkenny to 109% of normal at Malin Head. The second decade was brightest except in the northwest, where the first decade was sunniest.

Strong Winds and Gale Gusts occurred on the 2nd/3rd, 7th, 8th/9th (notably accompanied by blizzards), the 17th/18th, 20th/22nd and on the 26th.

Summary The month was notable for widespread blizzard conditions on the 8th and 9th followed by an intensely cold spell, lasting to 15th. The remainder of the month was mild and dull.

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 "o" in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

JANUARY 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 ⁻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	MEAN DAILY					DIFFERENCE FROM AVERAGE
Carlow (Oak Park) Co. Carlow	1-10	18.7	/	5	3	6.7	1.7	4.2	/	-3.7	10	5	19	1	-7.2	10	7	/	/	1.39	/	/	/	/
	11-20	22.5	/	6	5	6.6	-2.4	2.1	/	-13.2	12	5	15	0	-17.5	12	5	/	/	1.35	/	/	/	/
	21-end	6.6	/	6	4	9.7	4.9	7.3	/	1.8	28	0	29	0	-1.8	29	2	/	/	0.91	/	/	/	/
	Month	47.8	/	17	12	7.7	1.5	4.6	/	-13.2	12	10	63	1	-17.5	12	14	/	/	1.18	/	/	/	/
Shannon Airport Co. Clare	1-10	42.0	-	6	6	6.4	2.4	4.4	-	-2.2	10	4	19	1	-4.3	1	5	4.1	-	1.29	-	7	5	
	11-20	9.4	-	4	3	7.0	0.2	3.6	-	-8.2	12	3	15	0	-11.6	12	5	2.5	-	2.02	-	5	4	
	21-end	24.8	-	11	6	10.2	6.0	8.1	-	3.6	22	0	41	0	0.1	21	0	6.7	-	1.05	-	6	4	
	Month	76.2	81	21	15	7.9	3.0	5.5	+0.4	-8.2	12	7	75	1	-11.6	12	10	4.5	-0.2	1.44	85	6	13	
Fermoy (Moore Park) Co. Cork	1-10	55.0	-	7	6	6.7	2.1	4.4	/	-3.0	01	5	21	1	-11.4	01	7	/	/	0.50	/	5		
	11-20	27.2	-	6	4	7.5	-0.5	3.5	/	-10.0	12	5	18	0	-16.0	12	6	/	/	2.19	/	2		
	21-end	19.5	-	8	5	10.5	4.7	7.6	/	-0.9	28	1	32	0	-7.0	28	4	/	/	1.59	/	4		
	Month	101.7	91	21	15	8.3	2.2	5.3	/	-10.0	12	11	71	1	-16.0	12	17	/	/	1.38	/	4		
Mallow Co. Cork	1-10	61.9	-	6	6	7.2	2.3	4.8	/	-3.8	02	4	22	1	-6.7	02	6	/	/	0.46	/			
	11-20	40.1	-	6	4	7.5	N/A	-	/	N/A	-	-	-	-12.0	12	7	/	/	2.00	/				
	21-end	29.6	-	8	4	10.7	5.5	8.1	/	2.0	28	0	39	1	-4.1	28	4	/	/	1.39	/			
	Month	131.6	106	20	14	8.5	N/A	-	/	N/A	-	-	-	-12.0	12	17	/	/	1.24	/				
Roche's Point Co. Cork	1-10	56.0	-	8	6	7.3	3.9	5.6	-	-0.5	09	1	23	0	-3.5	01	2	5.8	-	0.74	-	9	8	
	11-20	27.9	-	6	5	7.9	4.2	6.1	-	-0.8	11	2	22	0	-4.6	12	4	5.2	-	2.45	-	6	6	
	21-end	9.7	-	3	3	10.5	6.5	8.5	-	3.5	28	0	45	0	-1.6	28	1	7.4	-	1.82	-	6	5	
	Month	93.6	97	17	14	8.6	4.9	6.8	+0.3	-0.8	11	3	89	0	-4.6	12	7	6.2	+0.3	1.67	84	7	19	
Glencolumbkille Co. Donegal	1-10	38.5	/	5	5	5.2	1.2	3.2	/	-4.2	07	5	19	0	-10.2	07	5	/	/	2.35	/	4		
	11-20	15.5	/	6	4	7.4	1.3	4.4	/	-7.3	11	3	24	0	-14.3	11	7	/	/	1.55	/	5		
	21-end	43.1	/	11	6	9.5	5.8	7.7	/	3.5	22	0	31	0	-0.6	23	1	/	/	0.46	/	6		
	Month	97.1	/	22	15	7.4	2.8	5.1	/	-7.3	11	8	74	0	-14.3	11	13	/	/	1.41	/	5		
Glenties Co. Donegal	1-10	33.3	-	6	5	6.6	1.3	4.0	/	-6.5	09	4	19	0	-10.2	08	7	/	/	2.18	/			
	11-20	31.6	-	6	5	7.5	-0.5	3.5	/	-8.2	12	4	16	0	-12.7	12	7	/	/	1.35	/			
	21-end	47.5	-	9	7	9.6	5.0	7.3	/	2.4	24	0	35	0	-0.7	24	3	/	/	0.46	/			
	Month	112.4	74	21	17	8.0	2.0	5.0	/	-8.2	12	8	70	0	-12.7	12	17	/	/	1.29	/			

Notes on the tables in January issue

TABLE 1 (Continued)

JANUARY 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 ⁻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
Malin Head e Co. Donegal	1-10	62.5	-	5	4	5.8	1.1	3.4	-	-4.8	07	4	11	0	-7.0	07	6	3.3	-	1.87	-	7	7
	11-20	6.3	-	3	2	6.6	2.0	4.3	-	-5.6	11	4	13	0	-8.8	11	7	2.1	-	1.67	-	8	7
	21-end	31.1	-	8	7	8.7	5.5	7.1	-	3.3	27	0	30	0	1.5	27	0	6.5	-	0.86	-	8	8
	Month	99.9	93	16	13	7.1	3.0	5.0	-0.2	-5.6	11	8	54	0	-8.8	11	13	4.0	-0.5	1.45	109	8	22
Casement Aerodrome Co. Dublin	1-10	31.3	-	8	7	5.8	1.3	3.6	-	-5.0	10	5	17	1	-4.2	07	5	3.8	-	1.14	-	8	5
	11-20	2.3	-	3	1	6.3	-2.8	1.8	-	-12.1	12	5	13	0	-12.0	15	5	1.9	-	3.09	-	4	4
	21-end	7.6	-	6	3	9.6	4.8	7.2	-	0.6	27	0	32	0	-2.7	27	1	5.8	-	0.89	-	8	7
	Month	41.2	63	17	11	7.3	1.2	4.3	+0.1	-12.1	12	10	62	1	-12.0	15	11	3.9	-	1.68	82	7	16
Dublin Airport e Co. Dublin	1-10	38.6	-	7	7	6.0	2.0	4.0	-	-3.5	10	4	18	1	-3.6	01	4	3.8	-	1.42	-	7	4
	11-20	5.2	-	2	2	6.4	0.7	3.6	-	-7.2	12	5	14	0	-10.1	12	7	1.9	-	3.01	-	4	1
	21-end	6.4	-	4	2	9.7	5.2	7.5	-	0.6	27	0	35	0	-3.9	27	1	5.8	-	1.09	-	7	5
	Month	50.2	72	13	11	7.5	2.7	5.1	+0.4	-7.2	12	9	67	1	-10.1	12	12	3.9	-0.2	1.82	89	6	10
Kinsealy Co. Dublin	1-10	N/A	-	-	-	N/A	N/A	-	/	N/A	-	-	-	N/A	-	/	/	/	/	1.43	/	7	/
	11-20	8.5	-	4	4	6.5	-1.2	2.7	/	-8.8	12	6	15	0	-12.1	12	7	/	/	2.46	/	4	/
	21-end	6.0	-	3	2	10.1	4.6	7.4	/	0.4	27	0	34	0	-3.4	27	4	/	/	1.19	/	5	/
	Month	N/A	-	N/A	N/A	N/A	-	-	/	N/A	-	-	-	-	N/A	-	/	/	/	1.64	/	5	/
Galway Co. Galway	1-10	39.0	-	7	5	5.2	0.9	3.1	-	-5.0	10	6	15	0	-5.1	10	7	3.8	-	1.40	-	5	2
	11-20	7.9	-	5	2	6.3	0.0	3.1	-	-9.2	12	3	11	0	-12.7	12	6	2.0	-	2.76	-	5	3
	21-end	34.1	-	10	5	9.7	6.3	8.0	-	3.0	22	0	40	0	1.5	22	0	6.8	-	1.23	-	5	4
	Month	81.0	77	22	12	7.1	2.5	4.8	-0.3	-9.2	12	9	66	0	-12.7	12	13	4.3	-	1.78	93	5	9
Killarney (Muckross Hse) Co. Kerry	1-10	109.8	/	8	7	7.1	2.9	5.0	/	-1.6	01	4	24	2	-6.0	01	6	/	/	0.21	/	/	/
	11-20	67.5	/	6	6	8.5	1.7	5.1	/	-5.5	12	3	25	0	-10.0	12	6	/	/	1.86	/	/	/
	21-end	39.0	/	6	5	11.4	7.1	9.3	/	3.6	28	0	49	3	-2.6	28	2	/	/	1.52	/	/	/
	Month	216.3	/	20	18	9.1	4.0	6.6	/	-5.5	12	7	98	5	-10.0	12	14	/	/	1.16	/	/	/
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	84.4	-	8	8	8.0	3.8	5.9	-	-0.1	09	1	24	2	-1.2	01	2	5.7	-	0.37	-	8	8
	11-20	62.0	-	6	6	9.0	4.0	6.5	-	-1.6	11	2	26	0	-6.2	12	3	4.7	-	2.21	-	7	5
	21-end	41.1	-	10	6	10.8	7.3	9.1	-	4.3	27	0	52	1	2.2	28	0	8.2	-	0.90	-	6	4
	Month	187.5	117	24	20	9.3	5.1	7.2	+0.2	-1.6	11	3	102	3	-6.2	12	5	6.3	+0.4	1.15	73	7	17

Notes on the tables in January issue

TABLE 1 (Continued)

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		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 4.0°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	32.7	-	4	4	5.8	1.6	3.7	-	-3.0	07	5	16	0	-5.5	07	5	4.3	-	2.45	-	7	5
	11-20	17.5	-	4	4	7.2	1.3	4.2	-	-8.1	12	2	11	0	-13.1	12	5	2.8	-	2.07	-	7	4
	21-end	27.4	-	10	5	9.9	6.3	8.1	-	3.3	22	0	41	0	1.8	22	0	7.0	-	0.62	-	7	4
	Month	77.6	69	18	13	7.7	3.2	5.5	-0.3	-8.1	12	7	68	0	-13.1	12	10	4.8	-0.2	1.68	104	7	13
Claremorris e Co. Mayo	1-10	56.0	-	7	6	4.9	0.5	2.7	-	-5.0	10	6	14	0	-6.5	10	7	3.3	-	1.19	-	6	1
	11-20	17.1	-	5	3	5.9	-0.9	2.5	-	-11.7	12	3	8	0	-15.3	12	6	1.5	-	2.00	-	4	1
	21-end	27.1	-	8	5	9.4	5.7	7.6	-	2.1	22	0	35	0	0.9	22	0	6.2	-	0.86	-	6	5
	Month	100.2	89	20	14	6.8	1.9	4.4	+0.2	-11.7	12	9	57	0	-15.3	12	13	3.8	+0.0	1.34	79	5	7
Glenamoy Co. Mayo	1-10	33.8	-	4	4	5.7	1.4	3.6	/	-3.6	07	5	15	0	-6.4	07	5	/	/	2.20	/	/	/
	11-20	8.7	-	3	3	7.8	-0.3	3.8	/	-10.9	12	3	7	0	-12.5	12	5	/	/	1.56	/	/	/
	21-end	42.1	-	10	8	10.0	5.7	7.9	/	2.9	23	0	39	0	0.9	22	0	/	/	0.56	/	/	/
	Month	84.6	59	17	15	7.9	2.4	5.2	/	-10.9	12	8	61	0	-12.5	12	10	/	/	1.39	/	/	/
Dunsany (Grange) Co. Meath	1-10	N/A	-	-	-	5.3	1.0	3.2	/	-4.0	10	6	16	0	N/A	-	-	/	/	1.34	/	/	/
	11-20	N/A	-	-	-	6.0	-3.3	1.4	/	-14.0	12	7	9	0	N/A	-	-	/	/	1.74	/	/	/
	21-end	13.5	-	8	3	9.2	4.0	6.6	/	0.1	27	0	34	0	-3.1	27	3	/	/	0.78	/	/	/
	Month	N/A	-	-	-	6.9	0.7	3.8	/	-14.0	12	13	59	0	N/A	-	-	/	/	1.25	/	/	/
Clones e Co. Monaghan	1-10	56.2	-	7	6	5.2	0.1	2.6	-	-5.0	10	6	13	0	-6.3	07	7	3.3	-	1.96	-	5	2
	11-20	10.4	-	4	3	5.0	-1.0	2.0	-	-12.4	12	6	11	0	-16.6	12	7	2.0	-	2.49	-	4	2
	21-end	26.7	-	10	5	9.1	5.0	7.1	-	1.6	27	0	29	0	-0.9	28	1	5.8	-	0.70	-	5	6
	Month	93.3	105	21	14	6.5	1.5	4.0	+0.3	-12.4	12	12	53	0	-16.6	12	15	3.8	+0.3	1.68	100	5	10
Birr e Co. Offaly	1-10	40.1	-	8	6	5.6	0.9	3.3	-	-6.9	10	6	18	1	-7.7	10	7	4.0	-	0.87	-	5	1
	11-20	8.8	-	5	2	6.0	-0.4	2.8	-	-14.6	12	4	15	0	-17.4	12	7	2.4	-	2.53	-	4	2
	21-end	17.8	-	8	5	9.7	5.7	7.7	-	2.6	22	0	36	0	-0.7	27	1	6.5	-	0.63	-	5	3
	Month	66.7	84	21	13	7.2	2.2	4.7	+0.3	-14.6	12	10	69	1	-17.4	12	15	4.4	+0.4	1.32	74	5	6
	1-10		-						-									/	/	/	/	/	/
	11-20		-						-									/	/	/	/	/	/
	21-end		-						-									/	/	/	/	/	/
	Month		-						-									/	/	/	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

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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 4.0°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	77.2	-	8	6	6.8	3.1	5.0	/	-1.2	10	4	21	0	-3.6	01	5	/	0.47	-	5	/	
	11-20	39.3	-	4	4	8.2	2.2	5.2	/	-4.4	12	4	23	0	-8.5	12	5	/	2.20	-	3	/	
	21-end	12.5	-	6	4	10.6	5.0	7.8	/	1.7	22	0	38	0	-3.0	28	3	/	1.80	-	3	/	
	Month	129.0	107	18	14	8.6	3.5	6.1	/	-4.4	12	8	82	0	-8.5	12	5	/	1.44	-	4	/	
Mullingar e Co. Westmeath	1-10	52.3	-	7	7	4.9	0.4	2.7	-	-4.7	10	6	14	0	-6.7	10	7	3.5	-	1.31	-	6	2
	11-20	13.1	-	3	2	5.4	-1.3	2.1	-	-11.5	12	5	11	0	-13.0	12	8	1.7	-	2.63	-	5	3
	21-end	20.2	-	9	4	9.0	5.1	7.1	-	2.6	27	0	29	0	-0.8	28	1	5.9	-	0.99	-	6	5
	Month	85.6	92	19	13	6.5	1.5	4.0	+0.1	-11.5	12	11	54	0	-13.0	12	16	3.8	+0.2	1.62	84	6	10
J.F.K Park Co. Wexford	1-10	44.4	-	5	5	6.1	2.6	4.4	/	-1.6	10	4	23	0	-3.4	01	6	/	1.05	-	6	/	
	11-20	32.2	-	7	5	7.1	0.6	3.9	/	-6.7	12	4	17	0	-7.2	13	5	/	2.15	-	4	/	
	21-end	18.1	-	4	3	10.1	6.3	8.2	/	1.4	27	0	43	0	-2.4	27	1	/	1.45	-	4	/	
	Month	94.7	83	16	13	7.8	3.3	5.6	/	-6.7	12	8	83	0	-7.2	13	12	/	1.50	-	5	/	
Clonroche Co. Wexford	1-10	N/A	-	-	-	N/A	N/A	-	/	N/A	-	-	-	N/A	-	-	-	/	0.72	-	N/A	/	
	11-20	N/A	-	-	-	N/A	N/A	-	/	N/A	-	-	-	N/A	-	-	-	/	0.31	-	N/A	/	
	21-end	16.1	-	8	5	10.1	5.5	7.8	/	1.7	27	0	38	0	-1.5	27	3	/	1.21	-	3	/	
	Month	N/A	-	-	-	N/A	N/A	-	/	N/A	-	-	-	N/A	-	-	-	/	0.76	-	-	/	
Johnstown Castle Co. Wexford	1-10	57.6	-	7	6	6.2	3.3	4.8	/	-2.1	10	2	22	0	-3.7	10	6	/	0.75	-	7	/	
	11-20	19.8	-	5	3	7.2	2.2	4.7	/	-3.2	12	2	17	0	-9.6	13	7	/	2.25	-	4	/	
	21-end	10.1	-	7	3	9.7	5.2	7.5	/	1.4	27	0	36	0	-2.3	28	3	/	1.91	-	4	/	
	Month	87.5	76	19	12	7.8	3.6	5.7	/	-3.2	12	4	75	0	-9.6	13	16	/	1.58	-	5	/	
Rosslare e Co. Wexford	1-10	72.9	-	6	6	6.9	4.2	5.5	-	-0.6	10	1	24	1	-3.9	10	4	5.0	-	0.86	-	9	7
	11-20	12.8	-	4	2	7.7	3.9	5.8	-	-1.2	12	1	19	0	-5.9	12	5	4.2	-	2.62	-	5	3
	21-end	8.8	-	5	3	10.1	6.2	8.1	-	2.9	28	0	41	0	0.2	27	0	6.9	-	1.65	-	5	4
	Month	94.5	92	15	11	8.3	4.8	6.5	+0.3	-1.2	12	2	84	1	-5.9	12	9	5.4	+0.4	1.71	77	6	14

Notes on the tables in January issue

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	1559
	11-20	2194
	21-end	2139
	Month	5892
Dublin Airport Co. Dublin	1-10	1601
	11-20	2350
	21-end	2582
	Month	6533
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	1420
	11-20	2848
	21-end	2982
	Month	7250
Kilkenny Co. Kilkenny	1-10	2200
	11-20	2699
	21-end	3035
	Month	7934
Belmullet Co. Mayo	1-10	2296
	11-20	2340
	21-end	2512
	Month	7148
Clones Co. Monaghan	1-10	1883
	11-20	2850
	21-end	2128
	Month	6861
Birr Co. Offaly	1-10	1960
	11-20	3021
	21-end	2519
	Month	7500

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	-	0	19
	11-20	2	-	0	24
	21-end	2	-	0	2
	Month	4	-	-	-
Kinsealy Co. Dublin	1-10	1	-	0	18
	11-20	1	-	0	9
	21-end	1	1	1	-
	Month	3	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	1	-	0	83
	11-20	-1	-	0	6
	21-end	4	-	0	93
	Month	4	-	-	-
Ballinamore Co. Leitrim	1-10	N/A	N/A	N/A	N/A
	11-20	2	-	0	17
	21-end	0	-	0	21
	Month	-	-	-	-
Glenamoy Co. Mayo	1-10	-2	-	0	36
	11-20	2	-	0	7
	21-end	3	-	0	39
	Month	3	-	-	-
Johnstown Castle Co. Wexford	1-10	1	-	0	58
	11-20	1	-	0	22
	21-end	0	-	0	6
	Month	2	-	-	-

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Notes on the tables 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 (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 17ms^{-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.

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. From January 1982, additional stations are included in Table 2 giving values of solar radiation.
11. Potential evapotranspiration (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.
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. 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.
15. Observations having ceased at Lisdara, Tralee, Co. Kerry on December 1979, a recently opened climate station at Liscahane, Ardfer, Co. Kerry has been substituted in Table 1 from January 1982.

The station at Ballysop, Campile, Co. Wexford in Table 1 now reads JFK Park, Co. Wexford.