



AGROMETEOROLOGICAL BULLETIN

JANUARY 1973

The weather during January

During most of the month, the weather was very mild with temperatures well above normal January values. Mean air temperatures over the month ranged from 0.8°C to 2.1°C above normal and soil temperatures were correspondingly high for the time of year. Soil temperatures at 10cm depth were above the 6.0°C level for long spells during the first two weeks and again towards the end of the month with the result that pastures showed unusual growth for January. The occurrence of frost was mainly confined to the period 16th-22nd during which time "ground" temperatures dropped below -10.0°C in many inland areas.

Rainfall was below normal nearly everywhere - monthly totals were generally 65% - 90% of normal but in a few places in Munster and in the extreme north amounts were just about normal for January. The 18th and 19th were the wettest days of the month in most places and rainfall of over 60mm was recorded in some southern areas over those two days. Snow fell in many districts on 15th and 21st but amounts were generally small. Gales were fairly widespread at intervals during the period 12th - 19th; wind damage to forest trees and to greenhouses were reported from coastal areas of Leinster during this period.

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.

STATION	PERIOD	Amount	Percentage of	No. of Rad.	No. of Wet	Mean Rel.	Difference from Average	Lowest Mini	Day	No. of Day with Air Pt	Degree Day Above 4.4°	Degree Day Above 10.0	Lowest Grass Minima	Day	Mo. of Days with Ground Fr	Mean Daily	Difference from Average	Mean Daily	Percentage of	Mean Speed	No. of Days with Gale Gst
Carlow (Oak Park) Co. Carlow	1-10	0.9	-	3	0	7.3	-	-0.2	07	1	31	02	0	2	-	-	-	-	-	-	-
	11-20	36.2	-	7	6	4.0	-	-5.4	18	4	12	00	-4.6	07	4	-	-	0.59	-	04	-
	21-end	16.4	-	7	5	6.9	-	-1.4	22	2	33	02	-9.8	18	4	-	-	1.02	-	09	-
	Month	53.5	-	17	11	6.1	-	-5.4	18	7	76	04	-6.2	22	6	-	-	1.26	-	08	-
Shannon Airport Co. Clare	1-10	13.9	-	4	4	8.3	-	+4.7	06	0	39	03	0	0	7.9	-	-	0.78	-	07	0
	11-20	31.1	-	8	8	5.3	-	-3.0	17	2	24	00	+1.7	06	0	-	-	1.26	-	10	5
	21-end	35.3	-	8	7	7.8	-	+0.6	22	0	41	02	-5.4	16	3	5.4	-	0.73	-	11	1
	Month	80.3	85	20	19	7.2	+2.1	-3.0	17	2	104	05	-1.9	22	3	6.8	-	0.92	54	10	6
Fermoy (Moore Park) Co. Cork	1-10	1.0	-	1	0	8.1	-	+4.8	06	0	38	02	0	1	-	-	-	0.20	-	04	-
	11-20	69.2	-	7	7	4.7	-	-4.6	16	3	17	01	-0.5	10	7	-	-	1.26	-	06	-
	21-end	24.0	-	7	6	6.5	-	-5.5	22	3	34	03	-11.5	18	6	-	-	0.85	-	07	-
	Month	94.2	-	15	13	6.5	-	-5.5	22	6	89	06	-10.5	22	6	-	-	0.77	-	06	-
Mallow Co. Cork	1-10	2.8	-	3	2	8.5	-	+4.5	06	0	41	03	0	1	-	-	-	0.10	-	-	-
	11-20	83.5	-	6	6	5.0	-	-4.2	17	3	18	00	-0.4	06	5	-	-	1.29	-	-	-
	21-end	20.9	-	9	6	7.4	-	-3.2	22	3	40	04	-9.9	18	5	-	-	0.96	-	-	-
	Month	107.2	101	18	14	7.0	-	-4.2	17	6	99	07	-9.0	22	5	-	-	0.79	-	-	-
Roche's Point Co. Cork	1-10	1.3	-	3	0	8.8	-	+6.5	10	0	44	01	0	0	8.5	-	-	0.14	-	11	0
	11-20	57.2	-	6	6	6.2	-	+0.2	18	0	23	00	+4.1	06	3	6.1	-	2.04	-	15	7
	21-end	13.0	-	7	4	8.2	-	+0.4	22	0	45	03	-2.8	18	3	7.3	-	1.23	-	14	4
	Month	71.5	72	16	10	7.8	+1.3	+0.2	18	0	112	04	-3.0	22	3	7.3	+1.8	1.14	57	13	11
Glencolumbkille Co. Donegal	1-10	22.8	-	3	2	6.9	-	+2.9	03	0	26	01	0	2	-	-	-	0.23	-	04	-
	11-20	42.6	-	10	7	5.5	-	0.0	17	1	16	00	-0.5	06	2	-	-	0.85	-	09	-
	21-end	65.7	-	11	10	7.7	-	+0.7	21	0	39	01	-2.6	17	2	-	-	0.27	-	10	-
	Month	131.1	-	24	19	6.7	-	0.0	17	1	81	02	0.0	21	1	-	-	0.45	-	08	-
Glenties Co. Donegal	1-10	18.9	-	3	2	5.6	-	-1.3	03	2	19	00	-2.6	17	5	-	-	0.68	-	-	-
	11-20	56.2	-	9	7	4.2	-	-4.7	17	3	10	00	-7.5	03	5	-	-	0.93	-	-	-
	21-end	60.8	-	11	10	6.5	-	-2.0	30	3	30	01	-11.2	17	5	-	-	0.40	-	-	-
	Month	135.9	85	23	19	5.5	-	-4.7	17	8	59	01	-8.5	22	6	-	-	0.66	-	-	-
Malin Head Co. Donegal	1-10	10.6	-	2	2	6.6	-	+1.7	03	0	23	00	-11.2	17	16	-	-	0.86	-	08	1
	11-20	51.8	-	8	7	4.6	-	-0.8	17	2	09	00	-0.5	03	2	5.7	-	1.44	-	19	8
	21-end	36.4	-	9	9	7.4	-	+2.8	22	0	35	01	-3.9	18	2	3.9	-	0.39	-	17	8
	Month	98.8	98	19	18	6.2	+1.0	-0.8	17	2	67	01	+0.1	21	0	6.3	-	0.88	66	15	17
Dublin Airport Co. Dublin	1-10	2.9	-	3	1	8.4	-	+5.4	07	0	40	03	-3.9	18	4	5.3	-	0.88	66	15	17
	11-20	32.4	-	6	4	4.3	-	-4.4	17	2	12	00	0	0	7.5	-	-	0.39	-	8	0
	21-end	17.1	-	6	5	7.2	-	-0.3	21	1	37	03	+0.5	07	3	4.2	-	1.73	-	15	4
	Month	52.4	74	15	10	6.7	+2.0	-4.4	17	3	89	06	-8.4	18	3	5.8	-	1.28	-	14	2
Kinsealy Co. Dublin	1-10	1.9	-	1	0	8.2	-	+3.6	07	0	39	03	-8.4	18	6	5.8	+2.2	1.14	56	12	6
	11-20	28.0	-	7	3	4.5	-	-4.6	18	2	13	00	-2.4	07	1	-	-	0.40	-	05	-
	21-end	15.2	-	7	4	7.3	-	-0.2	21	1	37	04	-10.1	18	4	-	-	1.55	-	13	-
	Month	45.1	-	15	7	6.7	-	-4.6	18	3	89	07	-3.0	22	4	-	-	1.19	-	09	-
Galway (Univ. Coll.) Co. Galway	1-10	26.5	-	4	3	7.5	-	+2.6	06	0	30	00	-10.1	18	9	-	-	1.05	-	09	-
	11-20	36.6	-	7	7	5.4	-	-3.0	17	2	17	00	-1.0	06	2	-	-	0.31	-	NA	-
	21-end	37.2	-	11	8	7.4	-	+0.4	22	0	36	01	-8.6	17	3	-	-	1.52	-	NA	-
	Month	100.3	-	22	18	6.8	-	-3.0	17	2	83	01	-6.0	22	3	-	-	1.05	-	NA	-
Killarney (Nuckross Hse.) Co. Kerry	1-10	18.2	-	2	2	8.9	-	+4.6	09	0	45	05	-8.6	17	8	-	-	0.96	-	NA	-
	11-20	109.6	-	7	6	5.5	-	-3.2	18	3	20	01	-1.0	09	2	-	-	0.53	-	-	-
	21-end	31.8	-	9	6	8.2	-	-1.8	22	1	45	04	-7.8	17	4	-	-	1.08	-	-	-
	Month	159.6	-	18	14	7.6	-	-3.2	18	4	110	10	-6.3	22	3	-	-	0.86	-	-	-
Cahiriveen (Valentia Obsy.) Co. Kerry	1-10	16.3	-	4	3	9.0	-	+5.4	08	0	46	03	-8.6	17	9	-	-	0.83	-	-	-
	11-20	79.3	-	7	5	5.9	-	-2.1	17	2	22	00	+1.7	09	0	8.5	-	0.79	-	10	0
	21-end	47.8	-	10	8	8.3	-	-0.6	22	2	47	04	-4.8	17	4	5.6	-	1.18	-	12	5
	Month	143.4	87	21	16	7.8	+0.8	-2.1	17	4	115	07	-2.1	22	2	7.7	-	0.71	-	13	5
Tralee (Caherwesheen) Co. Kerry	1-10	27.4	-	3	2	8.4	-	+2.7	09	0	41	06	-4.8	17	6	7.2	+1.6	0.89	56	12	10
	11-20	62.4	-	7	7	5.0	-	-4.9	17	3	18	00	-8.6	17	3	-	-	0.79	-	-	-
	21-end	57.9	-	9	7	7.9	-	-2.3	22	1	44	06	-2.1	09	4	-	-	1.85	-	-	-
	Month	147.7	-	19	16	7.1	-	-4.9	17	4	103	12	-9.9	17	17	-	-	0.90	-	-	-
Lullymore Co. Kildare	1-10	2.7	-	3	1	6.5	-	-2.8	07	1	26	01	-10.1	18	2	-	-	0.60	-	05	-
	11-20	25.0	-	8	5	2.6	-	-7.5	18	4	08	00	-7.2	07	2	-	-	1.13	-	11	-
	21-end	34.0	-	9	7	6.0	-	-2.6	22	4	27	01	-12.5	18	5	-	-	1.07	-	10	-
	Month	61.7	-	20	13	5.0	-	-7.5	18	9	61	02	-9.9	17	12	-	-	0.94	-	09	-

See January issue of Bulletin for explanatory notes on the tables.

STATION	PERIOD	Amount	Percentage of A.	No. of Rain D.	No. of Wet Day	Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Fro	Mean Daily	Difference from Average	Mean Daily	Percentage of Av	Mean Speed	No. of Days with Gale Gust.
		mm	%			°C	°C	°C					°C			°C	°C	Hr	%	Kt	
Kilkenny Co. Kilkenny	1-10	0.9	-	1	0	7.2	-	-0.5	06	2	32	02	-2.8	06	2	7.0	-	0.46	-	03	0
	11-20	53.2	-	7	7	4.1	-	-6.3	18	3	14	00	-9.0	18	3	4.2	-	1.21	-	08	3
	21-end	23.3	-	8	6	7.0	-	-4.4	22	3	37	02	-7.0	22	3	5.7	-	1.32	-	05	0
	Month	77.4	86	16	13	6.2	+1.8	-6.3	18	8	83	04	-9.0	18	8	5.6	+2.1	1.01	52	06	3
Mooncoin (Silverspring) Co. Kilkenny	1-10	1.4	-	2	1	7.6	-	+1.8	06	0	34	03	-3.5	06	4	-	-	0.58	-	-	-
	11-20	95.3	-	5	5	4.7	-	-5.9	18	3	16	00	-11.2	18	4	-	-	1.11	-	-	-
	21-end	20.5	-	9	5	7.0	-	-3.2	22	4	37	03	-8.9	22	5	-	-	0.72	-	-	-
	Month	117.2	-	16	11	6.4	-	-5.9	18	7	87	06	-11.2	18	13	-	-	0.80	-	-	-
Ballinamore Co. Leitrim	1-10	15.5	-	4	3	6.2	-	-1.2	03	2	22	00	-4.6	03	3	-	-	0.00	-	03	-
	11-20	48.1	-	8	7	3.2	-	-7.2	18	4	08	00	-9.8	17	5	-	-	1.40	-	07	-
	21-end	49.8	-	11	9	6.3	-	-3.0	22	2	29	01	-8.4	22	6	-	-	0.63	-	07	-
	Month	113.4	-	23	19	5.3	-	-7.2	18	8	59	01	-9.8	17	14	-	-	0.67	-	06	-
Ardee (Boharnasco) Co. Louth	1-10	7.2	-	3	2	7.6	-	+2.6	07	0	33	02	-2.2	07	1	-	-	-	-	-	-
	11-20	33.7	-	7	6	3.7	-	-8.1	18	3	09	00	-11.2	18	3	-	-	-	-	-	-
	21-end	19.0	-	10	5	6.5	-	-2.6	22	3	30	01	-5.2	22	4	-	-	-	-	-	-
	Month	59.9	-	20	13	5.9	-	-8.1	18	6	72	03	-11.2	18	8	-	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	26.6	-	3	3	6.5	-	-0.7	03	1	24	00	-3.3	07	4	-	-	0.10	-	03	-
	11-20	38.4	-	8	7	4.2	-	-6.2	18	3	14	00	-11.1	18	4	-	-	1.24	-	07	-
	21-end	35.0	-	10	8	7.6	-	-1.2	22	1	39	02	-5.9	22	3	-	-	0.97	-	06	-
	Month	100.0	-	21	18	6.2	-	-6.2	18	5	77	02	-11.1	18	11	-	-	0.78	-	05	-
Belmullet Co. Mayo	1-10	18.4	-	2	2	6.6	-	+0.5	03	0	25	01	-1.0	03	2	6.6	-	0.92	-	8	2
	11-20	56.1	-	8	6	5.2	-	-0.9	17	1	15	00	-3.4	17	3	5.0	-	1.42	-	13	4
	21-end	44.1	-	11	8	8.1	-	+1.0	21	0	43	02	+0.1	22	0	7.1	-	0.91	-	15	4
	Month	118.6	92	21	16	6.7	+0.9	-0.9	17	1	83	03	-3.4	17	5	6.2	+1.5	1.05	65	12	10
Claremorris Co. Mayo	1-10	21.6	-	3	3	6.4	-	-0.4	03	1	22	00	-2.7	03	1	6.6	-	0.16	-	05	0
	11-20	47.9	-	8	7	4.0	-	-5.5	17	3	11	00	-8.1	17	3	4.0	-	1.05	-	09	3
	21-end	46.2	-	8	7	7.1	-	-1.1	22	2	35	01	-6.0	22	4	5.9	-	0.75	-	10	3
	Month	115.7	95	19	17	5.9	+1.7	-5.5	17	6	68	01	-8.1	17	8	5.5	+2.1	0.66	39	08	6
Glenamoy Co. Mayo	1-10	24.8	-	3	2	5.9	-	-2.0	03	2	20	01	-3.5	03	5	-	-	1.11	-	07	-
	11-20	54.9	-	8	6	4.6	-	-4.4	17	3	13	00	-6.4	17	3	-	-	1.25	-	15	-
	21-end	70.3	-	11	10	7.2	-	-0.5	22	1	35	00	-2.9	22	2	-	-	0.35	-	13	-
	Month	150.0	-	22	18	5.9	-	-4.4	17	6	68	01	-6.4	17	10	-	-	0.88	-	12	-
Dunsany (Grange) Co. Meath	1-10	5.6	-	2	2	6.9	-	+2.5	07	0	26	01	-1.7	05	2	-	-	0.31	-	-	-
	11-20	19.0	-	7	7	3.3	-	-8.0	18	4	08	00	-12.3	18	4	-	-	1.44	-	-	-
	21-end	25.6	-	9	7	6.1	-	-2.5	22	4	28	01	-9.3	22	5	-	-	0.85	-	NA	-
	Month	50.2	-	18	16	5.5	-	-8.0	18	8	62	02	-12.3	18	11	-	-	0.86	-	-	-
Clones Co. Monaghan	1-10	12.5	-	5	3	6.2	-	-0.9	03	1	22	00	-3.7	03	1	6.7	-	0.01	-	04	0
	11-20	46.7	-	8	7	3.1	-	-7.1	18	3	07	00	-8.8	18	3	4.0	-	1.31	-	11	4
	21-end	28.6	-	10	8	6.5	-	-1.5	22	1	30	01	-4.9	22	3	5.6	-	0.65	-	09	0
	Month	87.8	96	23	18	5.3	+1.5	-7.1	18	5	59	01	-8.8	18	7	5.4	+2.4	0.65	39	08	4
Birr Co. Offaly	1-10	3.7	-	3	1	7.4	-	+2.4	10	0	32	02	-1.6	06	3	7.3	-	0.61	-	05	0
	11-20	25.0	-	7	7	3.8	-	-6.5	18	3	13	00	-9.2	18	3	4.3	-	1.21	-	09	4
	21-end	27.0	-	8	5	7.2	-	-1.7	22	2	37	02	-3.9	22	3	6.1	-	1.03	-	08	0
	Month	55.7	67	18	13	6.2	+1.8	-6.5	18	5	82	04	-9.2	18	9	5.9	+2.3	0.95	53	07	4
Thurles Co. Tipperary	1-10	1.8	-	2	1	7.2	-	-1.5	01	1	31	01	-3.5	01	2	-	-	0.52	-	-	-
	11-20	50.1	-	8	7	NA	-	NA					NA			-	-	0.43	-	-	-
	21-end	23.0	-	7	6	NA	-	NA					NA			-	-	1.13	-	-	-
	Month	74.9	75	17	14	NA	-	NA					NA			-	-	0.71	-	-	-
Dungarvan (Ballygagin) Co. Waterford	1-10	2.1	-	2	1	8.6	-	+3.9	10	0	42	03	-2.7	10	1	-	-	0.55	-	05	-
	11-20	109.5	-	6	6	5.4	-	-4.0	18	3	19	00	-8.9	18	3	-	-	1.90	-	09	-
	21-end	23.1	-	8	7	8.1	-	-3.2	22	3	40	04	-7.5	22	6	-	-	1.28	-	07	-
	Month	134.7	-	16	14	7.1	-	-4.0	18	6	101	07	-8.9	18	10	-	-	1.20	-	07	-
Mullingar Co. Westmeath	1-10	7.3	-	4	3	6.8	-	+1.8	07	0	27	01	+0.4	07	0	6.6	-	0.24	-	06	0
	11-20	23.5	-	8	6	3.3	-	-7.1	18	3	09	00	-8.5	18	3	3.5	-	1.38	-	11	4
	21-end	35.7	-	9	7	6.3	-	-2.6	22	3	30	01	-4.4	22	3	5.2	-	0.98	-	10	2
	Month	66.5	73	21	16	5.5	+1.6	-7.1	18	6	66	02	-8.5	18	6	5.1	+1.9	0.87	45	09	6
Campile (Ballysop) Co. Wexford	1-10	2.1	-	3	0	7.2	-	+2.8	07	0	29	00	-2.3	10	3	-	-	0.39	-	NA	-
	11-20	80.1	-	6	6	4.7	-	-4.5	18	2	12	00	-9.1	18	4	-	-	1.77	-	NA	-
	21-end	21.1	-	6	4	6.9	-	-1.6	22	2	34	01	-7.8	22	4	-	-	0.92	-	-	-
	Month	103.3	-	15	10	6.2	-	-4.5	18	4	75	01	-9.1	18	11	-	-	0.99	-	-	-

See January issue of Bulletin for explanatory notes on the tables.

STATION	PERIOD	Amount	Percentage of Ave	No. of Rain Day	No. of Wet Days	Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost	Mean Daily	Difference from Average	Mean Daily	Percentage of Ave	Mean Speed	No. of Days with Gale Gust
Clonroche Co. Wexford	1-10	1.2	-	4	0	7.1	-	+2.5	07	0	28	01	0	07	2	-	-	0.59	-	04	-
	11-20	96.6	-	6	6	4.0	-	-3.7	16	4	10	00	-10.1	18	4	-	-	1.87	-	07	-
	21-end	24.6	-	8	5	6.3	-	-2.6	22	4	30	01	-8.3	22	6	-	-	1.05	-	05	-
	Month	122.4	-	18	11	5.8	-	-3.7	16	8	68	02	-10.1	18	12	-	-	1.17	-	05	-
Johnstown Castle Co. Wexford	1-10	0.8	-	1	0	7.3	-	+3.4	06	0	30	00	-1.0	06	3	-	-	0.41	-	06	-
	11-20	55.1	-	7	5	4.9	-	-1.5	16	3	13	00	-8.0	16	4	-	-	1.93	-	10	-
	21-end	21.2	-	5	4	6.7	-	-1.5	22	3	31	01	-7.4	22	5	-	-	0.96	-	08	-
	Month	77.1	65	13	9	6.3	-	-1.5	16	6	74	01	-8.0	16	12	-	-	1.10	-	08	-
Rosslare Co. Wexford	1-10	0.4	-	2	0	8.1	-	+5.2	09	0	37	01	+2.4	06	0	8.0	-	0.70	-	09	0
	11-20	53.1	-	7	5	5.9	-	+0.4	16	0	20	00	-4.5	16	3	5.4	-	2.04	-	14	6
	21-end	19.1	-	5	4	7.3	-	-0.2	21	1	37	01	-3.1	21	3	6.7	-	1.05	-	10	1
	Month	72.6	72	14	9	7.2	+1.0	-0.2	21	1	94	02	-4.5	16	6	6.7	+1.8	1.25	57	11	7

TABLE 2. SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

STATION	PERIOD	SOLAR RADIATION	P.E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	-	2	1	1	0
	11-20	-	4	0	0	32
	21-end	-	1	0	0	16
	Month	-	7	-	-	-
Kinsealy Co. Dublin	1-10	1006	15	13	13	0
	11-20	NA	8	0	0	20
	21-end	NA	5	0	0	10
	Month	NA	28	-	-	-
Cahiriveen (Valentia Obay.) Co. Kerry	1-10	1188	0	0	0	35
	11-20	2256	24	0	0	57
	21-end	2294	7	0	0	45
	Month	5738	31	-	-	-
Kilkenny Co. Kilkenny	1-10	1277	-	-	-	-
	11-20	2308	-	-	-	-
	21-end	3053	-	-	-	-
	Month	6638	-	-	-	-
Ballinamore Co. Leitrim	1-10	-	0	0	0	24
	11-20	-	6	0	0	42
	21-end	NA	0	0	0	53
	Month	-	6	-	-	-
Glenamoy Co. Mayo	1-10	-	1	0	0	24
	11-20	-	24	0	0	31
	21-end	NA	0	0	0	85
	Month	-	25	-	-	-
Birr Co. Offaly	1-10	1562	-	-	-	-
	11-20	2272	-	-	-	-
	21-end	2505	-	-	-	-
	Month	6638	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	0	0	0	5
	11-20	-	11	0	0	44
	21-end	-	2	0	0	20
	Month	-	13	-	-	-

See January issue of Bulletin for explanatory notes on the tables.