



AGROMETEOROLOGICAL BULLETIN

FEBRUARY 1976

The Weather during February

A cold Easterly windflow dominated from 1st to 6th. A milder Southerly wind-regime prevailed from 7th to 9th but on 10th a cold, blustery west wind set in. Temperatures rose again on 12th and day-time temperatures continued normal or above until 16th. From 16th to 18th a South Easterly breeze brought cold, dry continental air over the country and frost was widespread at night. From 19th to the end of the month the Atlantic weather systems re-asserted their influence and with winds from a Southerly direction it was mild.

It was a dry month. Rainfall amounts ranged from 45% to 80% of normal generally and only in a few areas did amounts exceed 85%. Some light falls of snow occurred from 1st to 3rd, chiefly in Munster and Leinster. On 10th and 11th showers of hail, sleet and snow affected all areas. Mainly dry conditions prevailed from 24th to 28th and 13th to 19th. Ulster and Connaught had an additional dry spell from 1st to 6th.

Mean monthly temperatures were above normal by 0.5°C to 1.0°C , in most areas. This was due to mild conditions in the last ten days. Only during this period were soil temperatures high enough for grass-growth. The most widespread frosts occurred in the period 14th to 18th but many areas experienced frost between 1st and 3rd and also on 7th and 11th.

It was a dull month. Mean daily duration of sunshine ranged from 2.3 hours at Shannon Airport and Rosslare to 1.1 hours at Clones. Most places had from 60% to 90% of normal sunshine. Clones had only 49% and it was the dullest February there since records began in 1950.

It was windy only from 9th to 11th, on 20th and on 22nd. The range of gusts was modest enough at 35 to 50 kts but some gusts to 60 kts occurred in the north and west on 9th and 10th.

Summary. February was a dry, dull month.

TABLE 1.

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

FEBRUARY, 1976

STATION	PERIOD	RAINFALL				TEMPERATURE											BRIGHT SUNSHINE		WIND		
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND		SOIL(10cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts			
						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
mm	%			°C	°C	°C					°C		°C	°C	hr	%	Kt				
Carlow (Oak Park) Co. Carlow	1-10	10.8	-	8	3	4.3	-	-0.5	01	1	9	0	-5.0	01	6	-	-	1.38	-	6	-
	11-20	14.2	-	4	4	4.5	-	-2.3	18	2	7	0	-7.3	18	9	-	-	2.66	-	6	-
	21-end	8.8	-	4	4	8.7	-	2.0	24	0	39	0	-3.0	24	2	-	-	2.62	-	7	-
	Month	33.8	-	16	11	5.7	-	-2.3	18	3	55	0	-7.3	18	17	-	-	2.21	-	6	-
Shannon Airport Co. Clare	1-10	15.4	-	5	3	4.6	-	-2.3	01	2	12	0	-7.1	01	5	4.3	-	1.36	-	10	3
	11-20	31.4	-	4	4	6.1	-	-0.4	16	2	19	0	-4.9	16	5	5.8	-	2.79	-	11	2
	21-end	11.1	-	4	2	8.8	-	2.9	29	0	40	1	-0.9	24	3	7.9	-	2.93	-	9	2
	Month	57.9	89	13	9	6.4	+0.9	-2.3	01	4	71	1	-7.1	01	13	5.9	+1.2	2.34	92	10	7
Fermoy (Moore Park) Co. Cork	1-10	16.6	-	7	3	4.2	-	-1.5	02	3	10	0	-5.0	02	6	-	-	1.11	-	6	-
	11-20	25.2	-	4	4	4.8	-	-4.0	16	4	12	0	-7.0	16	7	-	-	2.38	-	5	-
	21-end	12.2	-	4	3	8.5	-	0.9	24	0	37	1	-2.3	24	2	-	-	2.64	-	4	-
	Month	54.0	-	15	10	5.8	-	-4.0	16	7	59	1	-7.0	16	15	-	-	2.02	-	5	-
Mallow Co. Cork	1-10	17.5	-	7	3	4.0	-	-4.3	01	3	11	0	-8.0	02	7	-	-	1.27	-	-	-
	11-20	21.8	-	5	4	5.2	-	-3.6	16	4	15	0	-9.2	16	6	-	-	1.95	-	-	-
	21-end	13.2	-	4	3	8.9	-	1.8	24	0	41	0	-3.2	24	4	-	-	2.60	-	-	-
	Month	52.5	73	16	10	5.9	-	-4.3	01	7	67	0	-9.2	16	17	-	-	1.92	-	-	-
Roche's Point Co. Cork	1-10	18.0	-	6	5	5.4	-	0.6	01	0	15	0	-0.3	01	1	5.2	-	1.10	-	12	4
	11-20	11.0	-	4	3	6.5	-	1.9	16	0	22	0	0.3	16	0	6.5	-	2.13	-	12	4
	21-end	11.8	-	4	4	8.6	-	3.7	24	0	38	0	1.8	24	0	8.5	-	2.39	-	10	3
	Month	40.8	64	14	12	6.8	+0.4	0.6	01	0	75	0	-0.3	01	1	6.6	+0.8	1.86	72	11	11
Glencolumbkille Co. Donegal	1-10	18.6	-	5	3	4.3	-	0.1	04	0	11	0	-	-	-	-	-	1.28	-	-	-
	11-20	33.2	-	4	4	5.5	-	0.3	20	0	13	0	-	-	-	-	-	1.38	-	-	-
	21-end	11.2	-	6	4	8.5	-	3.6	21	0	37	0	NA	NA	-	-	-	1.29	-	NA	-
	Month	63.0	-	15	11	6.0	-	0.1	04	0	61	0	-	-	-	-	-	1.32	-	-	-
Glenties Co. Donegal	1-10	25.4	-	6	4	3.6	-	-2.5	01	4	7	0	-6.8	01	9	-	-	1.59	-	-	-
	11-20	31.0	-	4	4	4.9	-	-1.0	13	1	6	0	-8.0	16	8	-	-	2.44	-	-	-
	21-end	17.8	-	6	3	8.1	-	2.0	24	0	34	0	-2.0	24	1	-	-	1.28	-	-	-
	Month	74.2	-	16	11	5.4	-	-2.5	01	5	47	0	-8.0	16	18	-	-	1.79	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

FEBRUARY, 1976

STATION	PERIOD	RAINFALL				TEMPERATURE											BRIGHT SUNSHINE		WIND		
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10cm)			Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts	
						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
mm	%	°C	°C	°C							°C	°C	°C	°C	°C	Hr	%	Kt			
Malin Head Co. Donegal	1-10	21.9	-	3	3	4.8	-	0.0	01	0	9	0	-1.7	02	3	3.6	-	1.02	-	16	8
	11-20	18.6	-	4	4	4.7	-	-0.1	16	1	8	0	-3.0	16	5	4.2	-	2.57	-	14	6
	21-end	8.2	-	5	3	8.3	-	4.2	29	0	36	0	2.1	24	0	7.1	-	1.02	-	15	6
	Month	48.7	73	12	10	5.9	+0.5	-0.1	16	1	53	0	-3.0	16	8	4.9	-	1.56	70	15	20
Dublin Airport Co. Dublin	1-10	7.0	-	4	3	4.6	-	0.6	02	0	10	0	-2.9	07	3	3.8	-	1.38	-	11	1
	11-20	10.6	-	4	2	5.1	-	0.4	11	0	12	0	-4.5	18	3	4.8	-	2.48	-	9	2
	21-end	11.7	-	3	3	8.8	-	3.4	29	0	40	0	0.1	29	0	7.5	-	2.20	-	10	1
	Month	29.3	56	11	8	6.1	+1.0	0.4	11	0	62	0	-4.5	18	6	5.3	+1.3	2.01	75	10	4
Kinsealy Co. Dublin	1-10	6.8	-	5	3	4.8	-	0.0	07	0	10	0	-3.8	07	6	-	-	1.39	-	9	-
	11-20	11.9	-	4	3	4.9	-	-2.2	18	2	10	0	-8.4	18	5	-	-	2.46	-	7	-
	21-end	8.7	-	2	2	9.1	-	3.8	24	0	42	1	-1.1	24	2	-	-	2.46	-	7	-
	Month	27.4	-	11	8	6.2	-	-2.2	18	2	62	1	-8.4	18	13	-	-	2.09	-	8	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	12.7	-	6	4	4.0	-	-2.0	07	1	7	0	-3.5	09	5	-	-	1.11	-	7	-
	11-20	13.9	-	4	3	4.7	-	-1.7	18	2	9	0	-4.8	14	9	-	-	2.62	-	5	-
	21-end	13.9	-	1	1	8.9	-	3.5	24	0	41	2	1.6	22	0	-	-	2.62	-	7	-
	Month	40.5	-	11	8	5.8	-	-2.0	07	3	57	2	-4.8	14	14	-	-	2.10	-	6	-
Galway (Univ. Coll.) Co. Galway	1-10	17.7	-	5	3	4.6	-	-1.0	01	2	13	0	-5.5	03	6	-	-	1.50	-	-	-
	11-20	31.0	-	4	4	6.1	-	0.0	16	0	19	0	-6.5	16	8	-	-	2.88	-	NA	-
	21-end	12.5	-	5	3	8.4	-	3.1	24	0	36	0	-3.0	21	3	-	-	1.78	-	-	-
	Month	61.2	-	14	10	6.3	-	-1.0	01	2	68	0	-6.5	16	17	-	-	2.06	-	-	-
Killarney (Muckross ae) Co. Kerry	1-10	30.3	-	8	6	4.8	-	-3.5	01	3	16	0	-8.0	02	3	-	-	1.57	-	-	-
	11-20	37.9	-	6	5	6.1	-	-2.4	18	3	20	0	-5.5	18	5	-	-	2.16	-	-	-
	21-end	44.3	-	4	3	9.2	-	0.8	24	0	43	3	-2.3	24	2	-	-	2.42	-	-	-
	Month	112.5	-	18	14	6.6	-	-3.5	01	6	79	3	-8.0	02	10	-	-	2.04	-	-	-
Cahiriveen (Valentia Obay.) Co. Kerry	1-10	20.0	-	6	4	5.5	-	-2.0	01	2	19	0	-6.0	01	3	4.7	-	1.54	-	13	3
	11-20	25.3	-	8	4	7.0	-	-0.8	16	1	27	0	-4.4	16	2	6.6	-	2.26	-	13	5
	21-end	36.4	-	7	5	8.5	-	1.4	24	0	37	2	-0.9	24	1	8.5	-	0.97	-	11	4
	Month	81.7	76	21	13	7.0	+0.2	-2.0	01	3	83	2	-6.0	01	6	6.5	+0.7	1.61	65	12	12

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TABLE 1 (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

FEBRUARY, 1976

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		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND		SOIL (10cm)			Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						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
mm	%	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	°C	Hr	%	Kt					
Enlee (Caherweesheen) Co. Kerry	1-10	15.0	-	5	3	4.5	-	-5.2	01	3	16	0	-6.9	01	5	-	-	2.14	-	-	-
	11-20	20.3	-	4	4	5.9	-	-2.6	16	4	21	0	-7.1	16	6	-	-	2.34	-	-	-
	21-end	31.3	-	4	4	9.3	-	0.4	24	0	45	4	-3.3	24	2	-	-	3.36	-	-	-
	Month	66.6	-	13	11	6.5	-	-5.2	01	7	82	4	-7.1	16	13	-	-	2.59	-	-	-
Lullymore Co. Kildare	1-10	16.6	-	7	2	3.8	-	-0.9	01	2	8	0	-6.1	01	8	-	-	1.10	-	8	-
	11-20	21.3	-	6	4	4.0	-	-1.5	20	7	3	0	-8.2	20	8	-	-	2.33	-	7	-
	21-end	14.1	-	5	2	8.0	-	1.2	24	0	32	1	-2.6	29	3	-	-	2.32	-	8	-
	Month	52.0	-	18	8	5.2	-	-1.5	20	9	43	1	-8.2	20	19	-	-	1.90	-	8	-
Kilkenny Co. Kilkenny	1-10	11.8	-	5	4	4.3	-	-0.4	01	1	9	0	-3.4	09	5	3.8	-	1.41	-	6	2
	11-20	15.7	-	5	2	4.5	-	-2.8	18	2	9	0	-6.7	18	5	4.7	-	2.31	-	6	0
	21-end	8.2	-	5	2	8.0	-	-2.2	29	1	33	0	-5.8	29	4	7.4	-	2.69	-	6	0
	Month	35.7	57	15	8	5.5	+0.6	-2.8	18	4	51	0	-6.7	18	14	5.2	+1.0	2.12	81	6	2
Mooncoin (Silverspring) Co. Kilkenny	1-10	23.5	-	8	4	4.5	-	-0.3	01	1	12	0	-3.0	10	7	-	-	1.32	-	-	-
	11-20	16.0	-	7	4	4.9	-	-2.9	14	3	11	0	-7.5	14	7	-	-	2.50	-	-	-
	21-end	12.4	-	4	3	8.4	-	0.3	24	0	36	0	-3.9	25	4	-	-	3.23	-	-	-
	Month	51.9	-	19	11	5.8	-	-2.9	14	4	59	0	-7.5	14	18	-	-	2.32	-	-	-
Hallinamore Co. Leitrim	1-10	23.8	-	6	6	3.3	-	-1.1	07	4	5	0	-3.3	07	6	-	-	1.08	-	6	-
	11-20	39.6	-	4	4	4.6	-	-2.5	16	3	8	0	-4.2	16	7	-	-	2.02	-	4	-
	21-end	13.1	-	4	4	7.9	-	1.2	24	0	32	0	0.5	24	0	-	-	1.21	-	6	-
	Month	76.5	-	14	14	5.2	-	-2.5	16	7	45	0	-4.2	16	13	-	-	1.44	-	5	-
Ardee (Bobarnagog) Co. Louth	1-10	10.0	-	6	4	4.5	-	-1.8	03	1	12	0	-4.4	07	5	-	-	-	-	-	-
	11-20	20.4	-	4	4	4.8	-	-1.0	18	2	10	0	-5.2	16	10	-	-	-	-	-	-
	21-end	19.1	-	6	4	8.3	-	2.6	24	0	35	0	-1.1	24	1	-	-	-	-	-	-
	Month	49.5	-	16	12	5.8	-	-1.8	03	3	57	0	-5.2	16	16	-	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	31.2	-	6	5	3.5	-	-4.1	01	3	9	0	-7.3	01	5	-	-	1.61	-	7	-
	11-20	23.7	-	4	4	5.6	-	-4.2	16	1	16	0	-8.1	16	7	-	-	2.82	-	6	-
	21-end	17.3	-	6	5	8.3	-	1.6	24	0	35	0	-3.7	24	2	-	-	1.81	-	7	-
	Month	72.2	-	16	14	5.7	-	-4.2	16	4	60	0	-8.1	16	14	-	-	2.09	-	7	-

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TABLE 1. (Continued)

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		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND		SOIL (10cm)			Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						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
mm	%	°C	°C	°C					°C		°C	°C	Hr	%	Kt						
Dungarvan (Ballygagin) Co. Waterford	1-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-end	-	-	-	-	-	-	-	NOT	AVAILABLE	-	-	-	-	-	-	-	-	-	-	
	Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Mullingar Co. Westmeath	1-10	15.0	-	7	4	3.6	-	-1.4	07	2	5	0	-4.8	07	6	3.3	-	1.24	-	11	2
	11-20	20.7	-	4	3	4.0	-	-0.6	20	4	4	0	-4.2	20	8	4.4	-	2.16	-	9	3
	21-end	17.2	-	4	4	7.6	-	1.0	24	0	29	0	-1.8	29	2	6.7	-	1.43	-	11	3
	Month	52.9	81	15	11	5.0	+0.5	-1.4	07	6	38	0	-4.8	07	16	4.7	+1.0	1.62	63	10	8
Campile (Ballysop) Co. Wexford	1-10	19.5	-	6	4	4.0	-	-1.4	01	2	9	0	-3.3	10	5	-	-	1.32	-	-	-
	11-20	17.5	-	5	4	4.9	-	-0.2	14	1	8	0	-5.2	14	7	-	-	2.43	-	NA	-
	21-end	10.2	-	3	3	7.9	-	0.5	24	0	32	0	-2.6	24	3	-	-	2.80	-	-	-
	Month	47.2	-	14	11	5.5	-	-1.4	01	3	49	0	-5.2	14	15	-	-	2.16	-	-	-
Clonroche Co. Wexford	1-10	25.1	-	7	4	3.8	-	-0.5	03	3	7	0	-4.0	10	5	-	-	1.37	-	6	-
	11-20	24.4	-	5	5	4.4	-	-1.5	14	2	6	0	-6.4	14	7	-	-	2.32	-	4	-
	21-end	13.4	-	7	3	8.0	-	2.7	24	0	32	0	-1.0	24	3	-	-	3.22	-	5	-
	Month	62.9	-	19	12	5.3	-	-1.5	14	5	45	0	-6.4	14	15	-	-	2.27	-	5	-
Johnstown Castle Co. Wexford	1-10	18.3	-	6	4	4.4	-	0.2	03	0	10	0	-2.5	10	4	-	-	1.28	-	4	-
	11-20	18.0	-	5	5	5.1	-	-0.4	14	1	10	0	-5.8	14	6	-	-	1.85	-	6	-
	21-end	12.4	-	5	3	8.1	-	2.1	24	0	33	0	-2.3	24	2	-	-	2.44	-	7	-
	Month	48.7	-	16	12	5.8	-	-0.4	14	1	53	0	-5.8	14	12	-	-	1.84	-	6	-
Rosslare Co. Wexford	1-10	13.6	-	8	3	5.2	-	1.2	02	0	13	0	-0.3	07	2	4.7	-	1.49	-	13	3
	11-20	11.5	-	5	5	6.1	-	1.1	11	0	18	0	-6.4	14	2	5.5	-	2.29	-	11	2
	21-end	12.0	-	5	3	8.6	-	3.7	24	0	38	0	0.5	24	0	8.3	-	3.17	-	11	3
	Month	37.1	58	18	11	6.6	+0.6	1.1	11	0	69	0	-6.4	14	4	6.1	+0.8	2.29	83	12	8

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

TABLE 2.

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE FEBRUARY, 1976

STATION	PERIOD	SOLAR RADIATION	P.E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
		Joule/cm ²	mm	mm	mm	mm
Carlow (Oak Park) Co. Carlow	1-10	-	7	-	0	4
	11-20	-	1	-	0	14
	21-end	-	1	-	0	8
	Month	-	9	-	-	-
Kinsealy* Co. Dublin	1-10	2664	7	1	1	-
	11-20	4283	10	-	0	2
	21-end	4780	6	-	0	3
	Month	11727	23	-	-	-
Cahirciveen ^e (Valentia Obsy.) Co. Kerry	1-10	3350	6	-	0	11
	11-20	4186	3	-	0	20
	21-end	4083	0	-	0	41
	Month	11619	9	-	-	-
Kilkenny ^e Co. Kilkenny	1-10	3005	-	-	-	-
	11-20	4384	-	-	-	-
	21-end	5612	-	-	-	-
	Month	13001	-	-	-	-
Ballinamore Co. Leitrim	1-10	2474	18	-	0	5
	11-20	4503	NA	NA	NA	NA
	21-end	3326	6	-	0	7
	Month	10303	-	-	-	-
Glenamoy Co. Mayo	1-10	3026	6	-	0	23
	11-20	4307	2	-	0	29
	21-end	4008	10	-	0	10
	Month	11341	18	-	-	-
Birr ^e Co. Offaly	1-10	3201	-	-	-	-
	11-20	4935	-	-	-	-
	21-end	5007	-	-	-	-
	Month	13143	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	8	-	0	10
	11-20	-	7	-	0	11
	21-end	-	-1	-	0	13
	Month	-	14	-	-	-

See January issue of Bulletin for explanatory notes on the tables. *Solar Radiation Values from Dublin Airport.