

METEOROLOGICAL SERVICE



DECEMBER 1965

AGROMETEOROLOGICAL BULLETIN

The Weather of December

A strong south to southwest airflow, with embedded rain troughs, on 1st/2nd, slackened on the 3rd as the parent depression centre approached the northwest of Ireland. Cooler conditions ensued on 4th/5th with the onset of northwesterly winds. Further frontal troughs from 6th/8th became slow-moving over northern areas. A moderately strong southwesterly airflow with rain belts again dominated from the 9th to the 14th but an anticyclonic influence also prevailed as rising pressure from Europe caused the fronts to gradually drift more to the north and west of the country. A very mild south to southwest airflow prevailed to the 15th.

Following the decline of high pressure and an eastwards clearance of the fronts on the 17th a westerly airflow with showers set in. Further mild conditions returned on the 18th as a complex low pressure pattern was established over the east North Atlantic and associated troughs in a southwest airflow affected Ireland on the 20th/21st, which were followed by somewhat improved conditions on the 22nd/23rd. As the low pressure centre became more concentrated to the south of Ireland on the 25th, and subsequently moved in over Europe, a cold northeast to north airflow set in on the 26th. Troughs giving snow showers, especially in northern and northwest areas drifted southwards from 27th to 29th. There was a general return to mild and wet south to southwest winds on the 30th and a clearance to scattered showers in a westerly airflow on the 31st.

Precipitation:

Monthly amounts varied from near normal over much of the country to well above normal in parts of the west and south and below normal in the north, east and south midlands. Values varied from 147% of normal at Ballinrobe (Cresagh) to 75% at Kilkenny. There were frequent wet days, rainfall amounts being greatest on 1st, 2nd, 6th, 12th, 13th, 17th, 19th (west and north), 20th/21st, 25th and 30th/31st.

Temperature:

Mean daily air temperature was above to well above normal and varied from 1.5C° above at Casement Aerodrome to 0.2C° above at Belmullet. Five-day mean soil temperatures (100mm) varied from about 2.5C° to 3.0C° above normal in the spell 11th-20th to 2.5C° to 3.0C° below in the period 26th-31st (there was a less cold spell from 6th-10th). Negative air temperatures were widespread from 8th-11th and it became intensely cold in the spell 27th to 30th. An extreme low air minimum of -8.1C° occurred at Birr on 28th and a ground temperature of -13.2C°.

Sunshine and Radiation:

Sunshine amounts were well below normal and varied from 75% of normal at Claremorris to 116% at Clones. Global radiation varied from 87% at Kilkenny to 105% at Dublin Airport.

Wind:

Strong winds with gale gusts were widespread from the 1st-3rd, 5th/6th, 12th, 14th, 19th-23rd, 26th and 30th. Sustained gale force winds were reached at many stations on 1st-3rd and 19th-21st.

Summary:

Mild and dull with variable rainfall amounts depending on the region.

Annual Summary: (See Page 6 of this Bulletin)

The data contained in this Bulletin are Provisional. Some of the material in Table 1 will be published in its final form in the Monthly Weather Report; final values of Global Radiation at stations in Table 2 will be published in the annual Solar Radiation Observations.

TABLE 1

DECEMBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				TOTAL NO. OF HOURS	% 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
Carlow (Oak Park) Co. Carlow	1-10	18.3	-	7	4	10.3	4.3	7.3	-	-1.8	9	3	35	-	5	-	-6.0	8	5	-	-	18.9	-	2.5	-	-
	11-20	26.0	-	5	4	11.7	5.9	8.8	-	-1.2	11	1	47	-	7	-	-5.2	11	4	-	-	6.1	-	5.0	-	-
	21-END	31.0	-	7	5	5.7	-0.8	2.4	-	-6.8	29	7	11	-	0	-	-10.8	29	7	-	-	11.6	-	3.1	-	-
	MONTH	75.3	87	19	13	9.1	3.0	6.1	-	-6.8	29	11	93	-	12	-	-10.8	29	16	-	-	36.6	-	3.5	-	0
Shannon Airport Co. Clare	1-10	30.0	-	8	7	10.5	5.5	8.0	-	1.0	8	0	39	-	7	-	-1.2	8	2	6.9	-	24.6	-	4.6	4	-
	11-20	34.1	-	8	6	12.2	7.7	9.9	-	1.8	11	0	56	-	9	-	-2.5	11	1	8.2	-	6.3	-	4.5	5	-
	21-END	26.2	-	8	6	6.7	1.4	4.0	-	-5.8	28	3	14	-	1	-	-9.1	28	6	3.6	-	18.2	-	4.3	4	-
	MONTH	90.3	85	24	19	9.7	4.8	7.2	+1.0	-5.8	28	3	109	125	17	213	-9.1	28	9	6.1	+0.3	49.1	109	4.4	11	0
Cork Airport Co. Cork	1-10	50.9	-	8	5	10.3	5.6	7.9	-	1.4	8	0	38	-	6	-	-4.5	8	2	7.2	-	21.4	-	7.6	5	-
	11-20	41.1	-	8	6	11.6	7.9	9.8	-	2.7	11	0	54	-	8	-	-3.7	11	2	8.3	-	8.1	-	8.1	4	-
	21-END	74.6	-	8	6	6.6	1.9	4.2	-	-4.2	28	3	14	-	0	-	-9.4	29	6	4.0	-	17.0	-	6.8	4	-
	MONTH	166.6	120	24	17	9.4	5.0	7.2	+1.2	-4.2	28	3	106	134	14	280	-9.4	29	10	6.4	+0.9	46.5	94	7.5	13	0
Fermoy (Coolnakille) Co. Cork	1-10	46.1	-	8	6	9.7	4.9	7.3	-	0.2	10	0	33	-	4	-	-5.0	8	3	-	-	21.9	-	4.5	-	-
	11-20	53.7	-	10	6	11.0	6.4	8.7	-	1.7	11	0	44	-	4	-	-2.4	11	2	-	-	5.8	-	4.8	-	-
	21-END	49.3	-	8	7	5.2	0.3	2.8	-	-5.3	28	6	7	-	0	-	-9.4	29	8	-	-	12.4	-	3.8	-	-
	MONTH	149.1	-	26	19	8.5	3.8	6.1	-	-5.3	28	6	85	-	8	-	-9.4	29	13	-	-	40.1	-	4.4	-	0
Fermoy (Moore Park) Co. Cork	1-10	34.6	-	7	5	10.6	4.1	7.3	-	-4.8	8	2	39	-	8	-	-7.1	8	6	-	-	21.0	-	3.1	-	-
	11-20	36.1	-	7	4	12.4	5.9	9.2	-	-2.4	11	1	51	-	11	-	-6.2	11	3	-	-	6.4	-	3.6	-	-
	21-END	47.2	-	7	7	6.7	0.1	3.4	-	-6.0	29	6	13	-	0	-	-10.0	29	9	-	-	12.4	-	3.0	-	-
	MONTH	117.9	104	21	16	9.8	3.3	6.5	-	-6.0	29	9	102	-	19	-	-10.0	29	18	-	-	39.8	-	3.2	-	0
Roches Point Co. Cork	1-10	33.4	-	7	6	10.9	6.2	8.6	-	1.0	8	0	44	-	7	-	-2.2	8	2	8.0	-	22.6	-	7.1	7	-
	11-20	26.0	-	5	4	12.0	8.6	10.3	-	2.8	11	0	59	-	10	-	-1.0	19	2	9.2	-	9.0	-	7.9	4	-
	21-END	56.6	-	8	6	8.1	3.4	5.7	-	-2.0	29	2	24	-	1	-	-6.7	29	5	5.5	-	17.5	-	6.9	8	-
	MONTH	116.0	113	20	16	10.3	6.0	8.1	+0.8	-2.0	29	2	127	126	18	257	-6.7	29	9	7.5	+0.8	49.1	90	7.3	19	2
Glencolumbkille Co. Donegal	1-10	60.7	-	9	7	10.0	5.4	7.7	-	0.8	9	0	35	-	4	-	-6.0	9	5	-	-	N/A	-	4.2	-	-
	11-20	70.6	-	9	8	11.5	7.1	9.3	-	2.8	11	0	49	-	6	-	-5.0	11	2	-	-	N/A	-	4.3	-	-
	21-END	51.5	-	9	8	7.2	2.5	4.8	-	-4.5	29	3	18	-	0	-	-10.0	28	8	-	-	N/A	-	3.5	-	-
	MONTH	182.8	-	27	23	9.5	4.9	7.2	-	-4.5	29	3	102	-	9	-	-10.0	28	15	-	-	N/A	-	4.0	-	N/A

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

DECEMBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND					
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			TOTAL NO. OF HOURS	% 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	
Glenties Co. Donegal	1-10	43.7	-	8	8	9.4	3.8	6.6	-	-3.3	9	2	29	-	3	-	-7.3	9	6	-	-	-	-	-	-	-	-
	11-20	86.8	-	10	8	11.0	6.2	8.6	-	-0.6	11	1	43	-	5	-	-4.6	11	3	-	-	-	-	-	-	-	-
	21-END	65.2	-	7	7	5.2	-0.1	2.6	-	-8.8	29	4	8	-	0	-	-12.6	29	9	-	-	-	-	-	-	-	-
	MONTH	195.7	114	25	23	8.4	3.2	5.8	-	-8.8	29	7	80	-	8	-	-12.6	29	17	-	-	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	30.2	-	10	7	10.2	5.4	7.8	-	0.5	10	0	36	-	7	-	-1.8	10	1	6.6	-	10.7	-	8.9	6	-	-
	11-20	40.6	-	9	5	11.2	7.2	9.2	-	3.2	11	0	48	-	5	-	-0.1	11	1	7.6	-	2.5	-	18.2	9	-	-
	21-END	18.9	-	6	4	6.5	2.3	4.4	-	-4.6	29	3	13	-	0	-	-9.2	30	3	3.8	-	15.4	-	9.5	9	-	-
	MONTH	89.7	80	25	16	9.2	4.9	7.0	+0.6	-4.6	29	3	98	124	12	300	-9.2	30	5	5.9	+0.4	28.6	99	9.5	24	12	-
Cassment Aerodrome Co. Dublin	1-10	14.0	-	7	3	10.4	4.5	7.5	-	-3.4	9	3	38	-	8	-	-6.8	10	3	6.1	-	23.3	-	7.9	5	-	-
	11-20	22.7	-	7	4	11.8	7.5	9.7	-	-0.1	11	1	54	-	9	-	-4.3	11	1	7.6	-	7.8	-	9.6	6	-	-
	21-END	38.0	-	7	6	6.5	0.5	3.5	-	-6.6	28	4	14	-	1	-	-10.1	28	6	3.3	-	18.2	-	6.8	6	-	-
	MONTH	74.7	97	21	13	9.5	4.1	6.8	+1.5	-6.6	28	8	106	143	17	243	-10.1	28	10	5.6	-	49.3	105	8.1	17	4	-
Dublin Airport Co. Dublin	1-10	21.4	-	6	5	10.4	4.9	7.7	-	-1.9	9	2	39	-	9	-	-3.1	8	4	5.9	-	22.9	-	5.6	6	-	-
	11-20	14.1	-	7	4	12.1	7.7	9.9	-	1.4	11	0	56	-	11	-	-1.7	11	2	7.5	-	9.4	-	6.8	4	-	-
	21-END	35.6	-	5	4	6.5	0.9	3.7	-	-5.1	29	4	16	-	1	-	-7.1	30	6	3.3	-	19.6	-	5.5	5	-	-
	MONTH	71.1	90	18	13	9.6	4.4	7.0	+1.2	-5.1	29	6	111	152	20	285	-7.1	30	12	5.5	+0.7	51.9	99	5.9	15	5	-
Kinseely Co. Dublin	1-10	22.4	-	6	4	10.8	3.9	7.4	-	-2.3	10	3	35	-	6	-	-4.5	9	4	-	-	22.6	-	3.8	-	-	-
	11-20	16.4	-	N/A	N/A	12.9	6.4	9.7	-	-0.4	11	1	55	-	11	-	-3.1	11	3	-	-	14.0	-	4.7	-	-	-
	21-END	34.5	-	6	5	6.6	0.2	3.4	-	-5.6	30	6	15	-	1	-	-6.7	30	6	-	-	16.5	-	3.8	-	-	-
	MONTH	73.3	96	N/A	N/A	10.0	3.4	6.7	-	-5.6	30	10	105	-	18	-	-6.7	30	13	-	-	54.4	-	4.1	-	0	-
Galway Co. Galway	1-10	30.4	-	8	6	10.5	4.8	7.7	-	-3.0	9	1	38	-	6	-	-5.1	9	3	6.5	-	23.5	-	5.5	4	-	-
	11-20	52.1	-	10	10	11.7	7.7	9.7	-	1.8	11	0	54	-	7	-	-1.4	11	2	8.3	-	4.6	-	7.0	4	-	-
	21-END	30.0	-	7	6	6.5	1.2	3.9	-	-5.0	28	3	14	-	1	-	-8.0	28	5	3.5	-	21.8	-	5.2	5	-	-
	MONTH	112.5	89	25	22	9.5	4.4	7.0	+1.2	-5.0	26	4	106	-	13	-	-8.0	28	10	6.0	-	49.9	107	5.9	13	2	-
Killarney (Muckross House) Co. Kerry	1-10	47.1	-	9	6	11.8	5.6	8.7	-	-0.8	8	1	47	-	10	-	-5.2	8	4	-	-	14.7	-	-	-	-	-
	11-20	89.2	-	8	7	12.9	9.0	10.9	-	0.6	11	0	66	-	16	-	-4.8	11	2	-	-	3.7	-	-	-	-	-
	21-END	71.6	-	8	7	7.3	1.2	4.2	-	-6.1	29	5	16	-	0	-	-11.0	29	7	-	-	9.1	-	-	-	-	-
	MONTH	207.9	106	25	20	10.6	5.1	7.8	-	-6.1	29	6	129	-	26	-	-11.0	29	13	-	-	27.5	-	-	-	-	-

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		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			TOTAL NO. OF HOURS	% 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
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	56.6	-	8	8	11.6	6.4	9.0	-	0.5	9	0	49	-	10	-	-1.2	9	3	0.2	-	20.2	-	6.6	7	-
	11-20	48.8	-	7	6	12.6	9.1	10.9	-	2.3	11	0	65	-	15	-	0.4	11	0	9.8	-	2.3	-	7.9	5	-
	21-END	53.9	-	8	6	8.4	2.1	5.3	-	-3.9	29	2	22	-	1	-	-6.4	29	5	4.9	-	16.9	-	6.5	8	-
	MONTH	159.3	100	23	20	10.8	5.7	8.3	+0.6	-3.9	29	2	136	117	26	200	-6.4	29	8	7.5	+0.6	39.4	104	7.0	20	9
Ardfert (Liscahane) Co. Kerry	1-10	33.8	-	8	7	11.4	6.2	8.8	-	-1.5	9	1	47	-	10	-	-4.2	9	2	-	-	28.6	-	-	-	-
	11-20	51.0	-	7	6	12.8	8.8	10.8	-	2.4	11	0	64	-	14	-	-1.5	11	1	-	-	5.8	-	-	-	-
	21-END	52.8	-	9	6	7.2	1.7	4.5	-	-6.4	28	3	17	-	0	-	-11.5	28	6	-	-	14.0	-	-	-	-
	MONTH	137.6	-	24	19	10.4	5.4	7.9	-	-6.4	28	4	128	-	25	-	-11.5	28	9	-	-	48.4	-	-	-	-
Lullymore Co. Kildare	1-10	15.7	-	4	4	10.0	3.9	7.0	-	-2.0	10	2	32	-	5	-	-6.2	8	4	-	-	18.1	-	4.1	-	-
	11-20	39.9	-	6	5	11.3	5.1	8.2	-	-2.4	11	1	42	-	5	-	-6.7	11	2	-	-	6.1	-	5.1	-	-
	21-END	22.4	-	6	5	5.2	-0.6	2.3	-	-7.0	28	6	8	-	0	-	-12.4	28	8	-	-	11.8	-	3.8	-	-
	MONTH	78.0	91	16	14	8.7	2.7	5.7	-	-7.0	28	9	82	-	10	-	-12.4	28	14	-	-	36.0	-	4.4	-	0
Kilkenny Co. Kilkenny	1-10	23.6	-	7	5	10.0	3.8	6.9	-	-3.3	8	3	36	-	8	-	-8.0	9	5	6.1	-	18.7	-	3.8	3	-
	11-20	20.4	-	4	4	12.0	6.2	9.1	-	-2.5	11	1	50	-	7	-	-6.8	11	4	7.2	-	6.8	-	3.7	3	-
	21-END	24.6	-	8	6	6.5	-0.3	3.1	-	-5.9	29	5	13	-	1	-	-11.5	29	8	3.6	-	16.1	-	3.6	3	-
	MONTH	68.6	75	19	15	9.4	3.1	6.3	+1.0	-5.9	29	9	99	130	16	200	-11.5	29	17	5.6	+1.0	41.6	90	3.7	9	0
Mooncoin (Silverspring) Co. Kilkenny	1-10	31.3	-	7	6	10.8	3.8	7.3	-	-4.2	9	3	39	-	8	-	-8.8	9	6	-	-	18.1	-	-	-	-
	11-20	32.8	-	7	4	12.8	5.5	9.1	-	-2.6	11	2	52	-	11	-	-7.7	11	4	-	-	7.3	-	-	-	-
	21-END	46.2	-	6	5	7.0	0.8	3.9	-	-4.0	29	6	16	-	1	-	-10.0	29	9	-	-	15.4	-	-	-	-
	MONTH	110.3	100	20	15	10.1	3.3	6.7	-	-4.2	9	11	106	-	20	-	-10.0	28	19	-	-	40.8	-	-	-	-
Ballinamore Co. Leitrim	1-10	36.3	-	7	6	9.2	2.7	6.0	-	-3.4	9	3	27	-	4	-	-10.0	9	6	-	-	15.3	-	2.8	-	-
	11-20	91.1	-	10	8	11.1	5.1	8.1	-	-0.7	11	1	41	-	4	-	-6.9	11	4	-	-	4.5	-	3.6	-	-
	21-END	23.2	-	7	6	5.0	-0.4	2.3	-	-5.8	28	6	6	-	0	-	-12.5	28	9	-	-	12.7	-	2.3	-	-
	MONTH	150.6	119	24	20	8.4	2.4	5.4	-	-5.8	28	10	74	-	8	-	-12.5	28	19	-	-	32.5	-	2.9	-	0
Ardee (Bohernemoe) Co. Louth	1-10	19.3	-	10	5	10.0	3.5	6.7	-	-3.5	9	3	33	-	6	-	-7.9	9	5	-	-	-	-	-	-	-
	11-20	40.0	-	9	8	11.4	5.6	8.5	-	-1.3	11	1	44	-	5	-	-6.9	11	4	-	-	-	-	-	-	-
	21-END	17.8	-	7	5	5.7	-0.7	2.5	-	-6.5	29	6	9	-	0	-	-10.9	29	6	-	-	-	-	-	-	-
	MONTH	77.1	86	26	18	8.9	2.7	5.8	-	-6.5	29	10	85	-	11	-	-10.9	29	15	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

DECEMBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			TOTAL NO. OF HOURS	% 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	66.9	-	8	8	10.5	2.9	6.7	-	-4.5	9	3	32	-	4	-	-9.0	9	4	-	-	12.9	-	3.8	-	-
	11-20	113.5	-	9	8	12.0	6.4	9.2	-	1.1	11	0	50	-	7	-	-5.0	11	3	-	-	3.6	-	4.7	-	-
	21-END	39.7	-	7	7	6.0	-0.5	2.8	-	-7.5	28	6	10	-	0	-	-12.2	28	9	-	-	10.9	-	3.4	-	-
	MONTH	219.1	147	24	23	9.4	2.8	6.1	-	-7.5	28	9	91	-	11	-	-12.2	28	16	-	-	27.4	-	3.9	-	0
Belmullet Co. Mayo	1-10	50.0	-	9	8	10.1	5.2	7.6	-	-2.0	9	1	36	-	3	-	-6.1	9	4	7.3	-	19.3	-	6.5	5	-
	11-20	51.4	-	10	6	11.6	7.5	9.5	-	5.1	19	0	51	-	6	-	-3.1	11	1	8.6	-	2.1	-	8.8	6	-
	21-END	52.1	-	10	8	6.9	2.1	4.5	-	-3.2	27	3	15	-	0	-	-7.3	28	5	5.6	-	7.3	-	5.5	4	-
	MONTH	153.5	125	29	22	9.4	4.8	7.1	+0.2	-3.2	27	4	103	113	9	-	-7.3	28	10	7.1	+1.0	28.7	85	6.9	15	2
Claremorris Co. Mayo	1-10	44.5	-	7	7	9.5	3.7	6.6	-	-4.1	9	2	32	-	5	-	-7.5	9	3	5.9	-	15.4	-	5.4	5	-
	11-20	94.0	-	8	8	11.1	6.6	8.9	-	1.0	11	0	46	-	4	-	-3.3	11	2	7.6	-	3.1	-	6.5	4	-
	21-END	32.5	-	7	7	5.5	-0.4	2.6	-	-5.3	28	5	9	-	0	-	-10.1	28	8	3.3	-	9.7	-	4.7	4	-
	MONTH	171.0	138	22	22	9.6	3.2	5.9	+0.7	-5.3	28	7	86	132	9	-	-10.1	28	13	5.5	+0.8	28.2	75	5.5	13	0
Glenamoy Co. Mayo	1-10	44.0	-	9	8	10.2	3.8	7.0	-	-3.5	10	2	32	-	4	-	-6.4	9	4	-	-	17.1	-	4.1	-	-
	11-20	77.1	-	8	8	11.7	6.7	9.2	-	2.2	11	0	49	-	6	-	0.0	11	0	-	-	2.6	-	5.8	-	-
	21-END	31.5	-	9	9	6.2	1.1	3.6	-	-4.3	29	4	11	-	0	-	-7.8	28	7	-	-	7.9	-	3.8	-	-
	MONTH	152.6	97	26	25	9.2	3.8	6.5	-	-4.3	29	6	92	-	10	-	-7.8	28	11	-	-	27.6	-	4.6	-	0
Duncany (Grange) Co. Meath	1-10	19.9	-	7	4	9.7	3.9	6.8	-	-2.9	10	3	32	-	5	-	-6.0	8	3	-	-	16.7	-	-	-	-
	11-20	35.9	-	8	5	11.0	5.8	8.4	-	-0.2	11	1	42	-	5	-	-6.3	11	2	-	-	5.7	-	-	-	-
	21-END	32.9	-	7	5	5.7	-0.3	2.7	-	-7.5	28	4	9	-	0	-	-10.0	29	6	-	-	12.3	-	-	-	-
	MONTH	88.7	99	22	14	8.7	3.0	5.9	-	-7.5	28	8	83	-	10	-	-10.0	29	11	-	-	34.7	-	-	-	-
Clones Co. Monaghan	1-10	20.3	-	8	6	9.4	3.7	6.5	-	-3.0	9	3	30	-	6	-	-7.8	10	4	5.9	-	20.0	-	5.2	3	-
	11-20	46.4	-	9	8	10.9	6.1	8.5	-	0.3	11	0	43	-	3	-	-6.0	11	3	7.1	-	4.1	-	5.8	5	-
	21-END	19.6	-	7	5	5.3	-0.3	2.5	-	-5.5	28	4	9	-	0	-	-12.5	29	5	3.3	-	17.7	-	4.6	3	-
	MONTH	86.3	90	24	19	8.4	3.1	5.7	+0.9	-5.5	28	7	82	144	10	250	-12.5	29	12	5.4	+1.0	41.8	116	5.2	11	0
Birr Co. Offaly	1-10	18.4	-	8	5	10.1	4.6	7.4	-	-0.2	8	1	36	-	7	-	-5.2	9	3	6.6	-	23.4	-	4.0	4	-
	11-20	39.3	-	8	5	11.9	7.3	9.6	-	-0.1	11	1	54	-	9	-	-6.1	11	1	8.0	-	5.2	-	4.5	2	-
	21-END	29.4	-	8	6	6.2	-0.1	3.0	-	-8.1	28	4	12	-	1	-	-13.2	28	6	3.4	-	16.5	-	3.3	1	-
	MONTH	87.1	101	24	16	9.3	3.8	6.6	+1.2	-8.1	28	6	102	142	16	267	-13.2	28	10	5.9	+1.0	45.1	102	3.9	7	0

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TABLE 1 (CONTINUED)

DECEMBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)																BRIGHT SUNSHINE		WIND								
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR										GROUND		SOIL (10cm)		TOTAL NO. OF HOURS	% 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 (Knockaville) Co. Tipperary	1-10	20.4	-	7	4	10.3	4.2	7.5	-	-2.6	8	3	35	-	6	-	-8.4	8	6	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	24.6	-	7	5	12.0	5.5	8.8	-	-2.0	11	2	47	-	7	-	-5.9	11	6	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	28.1	-	8	6	5.0	-0.4	2.7	-	-7.5	28	6	11	-	0	-	-13.5	28	8	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	73.1	-	22	15	9.2	3.0	6.1	-	-7.5	28	11	94	-	13	-	-13.5	28	20	-	-	-	-	-	-	-	-	-	-	-	-	
Dungarven (Carriglee) Co. Waterford	1-10	41.0	-	7	6	11.3	4.0	7.6	-	-2.9	8	3	40	-	8	-	-5.7	8	3	-	-	18.1	-	2.5	-	-	-	-	-	-	-	
	11-20	41.0	-	8	5	12.8	6.3	9.5	-	-1.1	11	2	55	-	13	-	-1.9	11	2	-	-	9.5	-	3.6	-	-	-	-	-	-	-	
	21-END	66.7	-	8	7	7.7	0.9	4.3	-	-4.1	29	5	18	-	1	-	-6.5	28	7	-	-	17.2	-	2.6	-	-	-	-	-	-	-	
	MONTH	148.7	118	23	18	10.5	3.6	7.1	-	-4.1	29	10	113	-	21	-	-6.5	28	12	-	-	44.8	-	2.9	-	-	-	-	-	-	0	
Mullinger Co. Westmeath	1-10	20.0	-	8	6	9.5	3.2	6.4	-	-3.9	9	3	30	-	5	-	-5.6	9	4	5.7	-	22.6	-	4.3	4	-	-	-	-	-	-	
	11-20	51.0	-	10	6	11.1	6.3	8.7	-	-1.5	11	1	46	-	5	-	-4.2	11	3	7.5	-	6.2	-	5.0	2	-	-	-	-	-	-	
	21-END	34.2	-	8	6	5.1	-0.7	2.2	-	-5.6	29	6	9	-	0	-	-7.8	29	7	2.8	-	19.2	-	4.3	3	-	-	-	-	-	-	
	MONTH	105.2	107	26	18	8.4	2.8	5.6	+0.8	-5.6	29	10	85	147	10	250	-7.8	29	14	5.2	+0.8	48.0	101	4.5	9	0	-	-	-	-	0	
J.F.K. Park Co. Wexford	1-10	30.4	-	7	6	10.3	4.8	7.5	-	-1.6	9	2	36	-	5	-	-7.7	9	6	-	-	21.1	-	4.8	-	-	-	-	-	-	-	
	11-20	27.1	-	5	4	11.5	6.6	9.0	-	0.1	11	0	48	-	7	-	-6.1	11	4	-	-	6.1	-	7.6	-	-	-	-	-	-	-	
	21-END	50.9	-	6	6	7.0	1.7	4.3	-	-4.4	29	5	16	-	1	-	-11.1	29	8	-	-	15.3	-	4.5	-	-	-	-	-	-	-	
	MONTH	108.4	98	18	16	9.5	4.2	6.9	-	-4.4	29	7	101	-	13	-	-11.1	29	18	-	-	42.5	-	5.6	-	-	-	-	-	-	0	
Clonroche Co. Wexford	1-10	34.1	-	7	6	10.2	3.8	7.0	-	-2.5	10	3	34	-	5	-	-8.4	8	6	-	-	16.7	-	1.9	-	-	-	-	-	-	-	
	11-20	39.3	-	6	4	11.6	5.3	8.4	-	-0.9	11	1	44	-	6	-	-6.9	11	4	-	-	7.8	-	3.2	-	-	-	-	-	-	-	
	21-END	67.2	-	7	6	6.4	1.0	3.7	-	-3.6	29	6	12	-	0	-	-9.9	29	9	-	-	15.2	-	1.6	-	-	-	-	-	-	-	
	MONTH	140.6	113	20	16	9.3	3.3	6.3	-	-3.6	29	10	90	-	10	-	-9.9	29	19	-	-	39.7	-	2.2	-	-	-	-	-	-	0	
Johnstown Castle Co. Wexford	1-10	42.1	-	9	6	10.6	5.4	8.0	-	0.5	8	0	39	-	5	-	-5.4	9	5	-	-	21.9	-	4.4	-	-	-	-	-	-	-	
	11-20	25.5	-	4	4	11.2	7.0	9.1	-	2.0	11	0	48	-	5	-	-3.0	11	3	-	-	7.6	-	6.0	-	-	-	-	-	-	-	
	21-END	45.9	-	7	6	7.4	1.9	4.6	-	-3.8	29	3	18	-	1	-	-11.8	29	7	-	-	17.7	-	4.5	-	-	-	-	-	-	-	
	MONTH	111.5	100	20	16	9.7	4.7	7.2	-	-3.8	29	3	105	-	11	-	-11.8	29	15	-	-	47.2	-	5.0	-	-	-	-	-	-	0	
Rosslere Co. Wexford	1-10	38.8	-	7	7	10.8	6.8	8.8	-	2.6	9	0	45	-	8	-	-2.8	9	3	7.6	-	22.1	-	6.2	5	-	-	-	-	-	-	
	11-20	13.8	-	4	3	11.5	5.3	9.9	-	3.0	11	0	55	-	7	-	-1.6	11	2	8.8	-	9.4	-	7.0	4	-	-	-	-	-	-	
	21-END	51.0	-	7	6	8.3	3.4	5.8	-	-3.0	29	2	24	-	1	-	-6.6	29	6	5.0	-	19.8	-	7.8	6	-	-	-	-	-	-	
	MONTH	103.6	106	18	16	10.1	6.1	8.1	+1.0	-3.0	29	2	125	132	16	229	-6.6	29	11	7.1	+1.0	51.3	98	7.0	15	4	-	-	-	-	4	

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL (SOLAR) RADIATION

STATION	PERIOD	AMOUNT MJ/M ²
Malin Head Co. Donegal	1-10	13.67
	11-20	8.85
	21-end	17.12
	Month	39.64
Dublin Airport Co. Dublin	1-10	19.13
	11-20	15.39
	21-end	20.35
	Month	54.87
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	24.09
	11-20	10.66
	21-end	22.26
	Month	57.01
Kilkenny Co. Kilkenny	1-10	17.51
	11-20	14.50
	21-end	20.77
	Month	52.78
Belmullet Co. Mayo	1-10	20.01
	11-20	9.55
	21-end	15.05
	Month	44.61
Clones Co. Monaghan	1-10	N/A
	11-20	N/A
	21-end	N/A
	Month	N/A
Birr Co. Offaly	1-10	20.13
	11-20	12.41
	21-end	22.01
	Month	54.55

Notes on the tables in January issue

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	10-10	-6.9	-	0	51
	11-19	-0.9	-	0	13
	20-end	-2.9	-	0	48
	Month	-10.7	-	-	-
Kinsealy Co. Dublin	1-10	1.8	-	0	21
	11-21	3.7	-	0	13
	22-end	4.0	-	0	30
	Month	9.5	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	10-11	3.0	-	0	87
	12-20	0.1	-	0	36
	21-end	5.5	-	0	58
	Month	8.6	-	-	-
Ballinamore Co. Leitrim	10-11	1.4	-	0	60
	12-21	N/A	N/A	N/A	N/A
	22-end	-0.4	-	0	24
	Month	N/A	-	-	-
Glenamoy Co. Mayo	1-10	-4.5	-	0	49
	11-20	5.1	-	0	72
	21-end	9.4	-	0	32
	Month	10.0	-	-	-
Johnstown Castle Co. Wexford	10-10	5.9	-	0	60
	11-21	2.9	-	0	28
	22-end	5.8	-	0	33
	Month	14.6	-	-	-

TABLE 4 SOIL CLIMATE (MULLINGAR)

BARE SOIL TYPE	PERIOD	MEAN TEMPERATURE (°C at 100mm)			TEMPERATURE GRADIENT (to 200mm)	SOIL WATER POTENTIAL (hPa) (at depths)	
		Max.	Daily	Min.		75mm	200mm
		Peat	1-10	7.1	5.6	4.3	+0.3
	11-20	8.1	7.1	5.5	-0.4	48	56
	21-end	4.4	3.0	2.3	+1.6	48	51
Mineral	1-10	7.4	5.6	4.0	+0.3	49	48
	11-20	8.3	7.3	5.8	-0.1	49	42
	21-end	4.2	2.8	2.0	+0.9	40	41

AN AGROCLIMATOLOGICAL SUMMARY FOR 1985

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 Dublin	
<u>DAY DEGREES</u> Threshold 6°C (ii)	435 (94)	1321(101)	297 (85)	1119(101)	341 (89)	1224(100)	318 (91)	1235(100)
Threshold 10°C (iii)	105 (79)	608(98)	78 (72)	489(98)	95 (69)	600(92)	84 (80)	586(120)
<u>GLOBAL RADIATION</u> KJoule/cm ²	141 (100)	196(94)	136* (-)	189*(-)	125 (89)	237(111)	130 (97)	198 (98)
<u>PENMAN POTENTIAL EVAPOTRANSPIRATION</u> (mm)	208 (93)	288(88)	150 (87)	226(87)	167(93)	265(92)	203 (96)	324(93)
<u>PRECIPITATION</u> (mm)	619 (112)	997(123)	447 (110)	867(138)	301(90)	539(102)	301(110)	474(99)
<u>DAYS WITH AIR FROST</u> (iv)	13 (11)	6(3)	46 (30)	21(15)	51(33)	20(23)	28(20)	12(8)
<u>SOIL MOISTURE DEFICIT</u>	VALENTIA CO KERRY		GLENAMOY CO MAYO		OAKPARK CO CARLOW		KINSEALY CO DUBLIN	
Maximum Value (mm)	20	17	6	7	15	68	20	42
Date of Maximum	20 May	31 Oct	30 April	20 Oct	30 April	10 July	30 April	10 July
Number of 10-day periods with 50 mm Deficit or more (v)	0	0	0	0	0	2	0	0

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 grass or shallow rooted crops.
- * Global radiation at Belmullet Co Mayo
- Not available

Annual Weather Summary

The weather of 1985 was cooler, duller and in most places wetter than normal. The year was notable for its generally wet and dull summer which followed a dull and wet spring. Soil moisture deficits were largely absent or small and exceeded 50 mm on only two 10-day periods at Oak Park. Conditions in September (except in the west) and October were improved.