

METEOROLOGICAL SERVICE



MAY 1986

AGROMETEOROLOGICAL BULLETIN

The Weather of May

A depression, with centre to the southwest of the country, dominated to 7th; frequent spells of rain or showers occurred in this spell in a southeast to northeast airflow. A southwesterly airflow with frontal troughs prevailed from 8th to 13th. This was succeeded by northwest winds on 14th and a ridge on 15th. With a deepening depression between the Azores and Ireland, freshening southeast winds set in over the country on 16th and wet and windy (southwesterly) conditions ensued as the depression passed to the northwest on 17th. Somewhat improved weather on 18th-20th was succeeded by more active systems on 21st and 22nd with strong south to west winds. Subsequently a relatively mild southwesterly airflow became established with passing frontal troughs.

A rapidly deepening depression approached Ireland on 26th and its centre was positioned off the northwest of the country early on 27th. Gale to storm force southwest winds developed everywhere and these were particularly severe in western areas. A post-depression northwest airflow on 28th was succeeded by the onset of a very mild and humid spell with outbreaks of rain and drizzle in southwest to west winds.

Precipitation:

Amounts of precipitation were generally well above normal and were exceptionally high in western areas. Amounts varied from 105% of normal at Casement Aerodrome to 270% at Ballinrobe. Wettest days were 3rd, 11th, 17th, 21st and 30th but on several other days there were localised heavy falls of rain.

Temperature:

Mean air temperature was below normal for the fifth successive month. Values ranged from 1.4°C° below at Roche's Point to 0.1°C° below at Casement Aerodrome and Dublin Airport. Low maxima were the dominant feature of the month. Despite the cold conditions, ground frost was widespread only on 16th. Soil temperatures (100mm) were well below normal, the coldest spell relative to normal occurring in the last ten days (except at Valentia Observatory where a recovery took place).

Sunshine and Radiation:

Sunshine hours were well below normal almost everywhere. Amounts varied from 65% of normal at Claremorris to 96% at Rosslare; the first ten days were dullest. Radiation values were well below normal except at Dublin Airport.

Wind:

The month was very windy. The monthly mean wind speed at Claremorris was 11.2kts compared to the long term average of 8.4kts; the corresponding values at Kilkenny were 9.5kts and 6.3kts respectively. Strong winds with gale gusts were widespread, there being 261hrs with gale gusts at Casement Aerodrome, 229hrs at Malin Head, 89hrs at Claremorris and 155hrs at Kilkenny. Windiest days were 12th, 17th, 21st and 27th (stormy conditions).

Summary:

May: Cold, exceptionally wet and very dull and windy; Spring: Cold to very cold, and very wet apart from east (see also Special Topic).

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

MAY 1986

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	40.9	-	9	9	12.6	6.6	9.6	-	4.5	4	0	52	-	10	-	-0.4	4	1	-	-	26.4	-	5.0	-	-
	11-20	33.0	-	8	8	14.0	6.1	10.1	-	0.8	16	0	58	-	14	-	-2.5	16	2	-	-	61.6	-	5.8	-	-
	21-END	22.1	-	10	6	14.4	7.1	10.7	-	4.0	30	0	70	-	17	-	0.8	30	0	-	-	72.4	-	6.2	-	-
	MONTH	96.0	160	27	23	13.7	6.6	10.1	-	0.8	16	0	179	-	41	-	-2.5	16	3	-	-	160.4	-	5.7	-	78
Shannon Airport Co. Clare	1-10	57.0	-	10	10	12.6	7.4	10.0	-	4.5	4	0	56	-	11	-	3.1	4	0	10.1	-	31.1	-	4.7	3	-
	11-20	22.7	-	7	5	14.4	7.6	11.0	-	3.3	16	0	66	-	18	-	-0.7	16	1	11.3	-	61.9	-	5.8	4	-
	21-END	26.7	-	9	7	13.9	8.2	11.1	-	6.7	22	0	73	-	17	-	4.8	22	0	11.8	-	67.1	-	6.8	5	-
	MONTH	106.4	180	26	22	13.7	7.7	10.7	-0.8	3.3	16	0	196	84	47	59	-0.7	16	1	11.1	-2.1	160.1	86	5.8	12	83
Cork Airport Co. Cork	1-10	57.4	-	9	8	11.0	6.2	8.6	-	4.0	2	0	42	-	4	-	1.3	5	0	9.5	-	26.2	-	7.6	4	-
	11-20	55.4	-	10	5	12.3	6.6	9.5	-	2.6	16	0	52	-	8	-	-0.5	14	2	10.9	-	60.7	-	8.8	5	-
	21-END	29.9	-	9	8	12.6	6.7	9.7	-	4.1	28	0	58	-	10	-	0.1	30	0	11.2	-	69.9	-	8.8	8	-
	MONTH	142.7	164	28	21	12.0	6.5	9.3	-1.1	2.6	16	0	152	80	22	42	-0.5	14	2	10.6	-1.5	156.8	80	8.4	17	80
Fermoy (Coolnakilla) Co. Cork	1-10	66.7	-	10	9	11.1	5.6	8.3	-	3.5	2	0	40	-	4	-	0.0	4	0	-	-	30.4	-	5.2	-	-
	11-20	56.8	-	10	8	12.2	5.5	8.8	-	1.8	14	0	46	-	6	-	-2.7	16	2	-	-	70.3	-	6.1	-	-
	21-END	39.6	-	11	11	12.4	6.0	9.2	-	4.5	22	0	53	-	8	-	1.2	30	0	-	-	65.0	-	5.8	-	-
	MONTH	163.1	-	31	28	11.9	5.7	8.8	-	1.8	14	0	138	-	19	-	-2.7	16	2	-	-	165.7	-	5.7	-	61
Fermoy (Moore Park) Co. Cork	1-10	37.6	-	9	7	12.6	6.4	9.5	-	3.4	8	0	51	-	9	-	-0.2	4	1	-	-	32.2	-	3.7	-	-
	11-20	44.3	-	9	8	13.9	6.3	10.1	-	-1.1	16	1	60	-	15	-	-4.5	16	3	-	-	63.2	-	4.5	-	-
	21-END	24.5	-	10	5	14.1	6.8	10.4	-	3.0	30	0	67	-	16	-	-1.2	30	2	-	-	64.4	-	4.7	-	-
	MONTH	106.4	156	28	20	13.5	6.5	10.0	-	-1.1	16	1	177	-	40	-	-4.5	16	6	-	-	159.8	-	4.3	-	70
Roches Point Co. Cork	1-10	39.9	-	8	8	11.3	7.2	9.2	-	5.9	2	0	48	-	4	-	3.2	4	0	10.5	-	43.5	-	6.4	2	-
	11-20	39.7	-	8	8	12.2	7.3	9.8	-	3.9	16	0	54	-	8	-	-0.2	16	1	11.4	-	64.0	-	7.6	6	-
	21-END	24.7	-	8	5	12.8	7.5	10.2	-	4.8	30	0	64	-	11	-	0.3	30	0	11.7	-	72.2	-	8.5	8	-
	MONTH	104.3	156	24	21	12.1	7.3	9.7	-1.4	3.9	16	0	166	78	23	42	-0.2	16	1	11.2	-1.7	179.7	90	7.5	16	80
Glencolumbkille Co. Donegal	1-10	43.7	-	9	7	12.3	6.6	9.4	-	4.5	4	0	50	-	8	-	-2.6	4	2	-	-	N/A	-	4.8	-	-
	11-20	67.2	-	9	6	13.5	6.8	10.2	-	3.5	16	0	58	-	14	-	-4.3	16	2	-	-	N/A	-	4.7	-	-
	21-END	97.1	-	10	10	12.1	6.4	9.3	-	4.3	22	0	54	-	6	-	-1.5	28	1	-	-	N/A	-	5.1	-	-
	MONTH	208.0	-	28	23	12.6	6.6	9.6	-	3.5	16	0	162	-	28	-	-4.3	16	5	-	-	N/A	-	4.8	-	N/A

TABLE 1 (CONTINUED)

MAY 1986

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	45.8	-	7	6	13.0	6.5	9.7	-	4.2	4	0	53	-	9	-	0.6	4	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	63.9	-	10	8	13.6	6.5	10.0	-	0.5	16	0	58	-	14	-	-2.1	16	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	86.9	-	11	11	11.9	6.0	9.0	-	0.8	28	0	51	-	6	-	1.3	28	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	196.6	229	28	25	12.8	6.3	9.5	-	0.5	16	0	162	-	29	-	-2.1	16	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malin Head Co. Donegal	1-10	29.2	-	7	5	12.0	7.4	9.7	-	5.5	4	0	53	-	8	-	0.6	7	0	10.2	-	44.8	-	9.4	5	-	-	-	-	-	-	-	-	-	-	
	11-20	26.9	-	9	6	12.8	7.3	10.0	-	3.9	14	0	57	-	13	-	0.0	14	0	10.9	-	36.4	-	8.4	6	-	-	-	-	-	-	-	-	-	-	
	21-END	45.7	-	10	9	12.1	7.3	9.7	-	5.0	22	0	58	-	7	-	3.0	22	0	10.9	-	62.2	-	10.4	8	-	-	-	-	-	-	-	-	-	-	-
	MONTH	101.8	176	26	20	12.3	7.3	9.8	-0.3	3.9	14	0	168	89	27	63	0.0	14	0	10.7	-1.4	143.4	72	9.4	19	84	-	-	-	-	-	-	-	-	-	
Casement Aerodrome Co. Dublin	1-10	19.8	-	7	5	13.8	6.5	10.2	-	2.9	4	0	58	-	14	-	-0.1	4	1	9.7	-	41.0	-	6.7	5	-	-	-	-	-	-	-	-	-	-	
	11-20	20.4	-	6	5	14.8	6.1	10.5	-	2.1	16	0	62	-	18	-	-1.1	16	1	11.1	-	66.3	-	8.0	6	-	-	-	-	-	-	-	-	-	-	
	21-END	20.7	-	9	6	14.2	6.8	10.5	-	5.0	29	0	67	-	17	-	3.0	29	0	11.6	-	69.1	-	9.0	7	-	-	-	-	-	-	-	-	-	-	-
	MONTH	60.9	105	22	16	14.3	6.5	10.4	-0.1	2.1	16	0	187	93	48	73	-1.1	16	2	10.8	-	176.4	93	7.9	18	101	-	-	-	-	-	-	-	-	-	
Dublin Airport Co. Dublin	1-10	20.3	-	9	5	13.1	6.7	9.9	-	4.6	4	0	55	-	12	-	-0.5	1	1	10.7	-	36.1	-	5.6	3	-	-	-	-	-	-	-	-	-	-	
	11-20	16.8	-	6	5	14.6	6.8	10.7	-	2.8	15	0	63	-	19	-	-0.1	16	1	11.9	-	64.8	-	6.3	4	-	-	-	-	-	-	-	-	-	-	
	21-END	26.1	-	10	6	14.5	7.3	10.9	-	5.0	28	0	72	-	19	-	2.5	28	0	12.8	-	73.7	-	7.4	6	-	-	-	-	-	-	-	-	-	-	-
	MONTH	63.2	109	25	16	14.1	6.9	10.5	-0.1	2.8	15	0	190	92	49	83	-0.5	1	2	11.8	-1.1	174.6	90	6.4	13	95	-	-	-	-	-	-	-	-	-	
Kinsealy Co. Dublin	1-10	20.8	-	8	6	13.0	6.5	9.8	-	3.4	4	0	54	-	11	-	-1.5	7	1	-	-	36.5	-	5.0	-	-	-	-	-	-	-	-	-	-		
	11-20	16.6	-	6	4	14.5	6.5	10.5	-	3.2	16	0	61	-	17	-	-0.5	16	4	-	-	63.1	-	4.9	-	-	-	-	-	-	-	-	-	-	-	
	21-END	29.2	-	10	7	15.1	7.8	11.5	-	5.3	29	0	78	-	22	-	1.6	29	0	-	-	74.0	-	5.3	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	66.6	119	24	17	14.2	7.0	10.6	-	3.2	16	0	193	-	50	-	-1.5	7	5	-	-	173.6	-	5.1	-	88	-	-	-	-	-	-	-	-	-	
Galway Co. Galway	1-10	74.3	-	9	9	12.4	6.9	9.6	-	4.1	4	0	52	-	9	-	0.0	4	0	10.5	-	35.1	-	5.9	3	-	-	-	-	-	-	-	-	-	-	
	11-20	44.5	-	9	6	13.9	7.1	10.5	-	1.6	16	0	62	-	16	-	-1.0	16	1	11.7	-	58.3	-	6.4	5	-	-	-	-	-	-	-	-	-	-	
	21-END	56.4	-	9	8	13.0	7.8	10.4	-	5.5	22	0	66	-	12	-	4.0	22	0	11.9	-	67.8	-	7.9	7	-	-	-	-	-	-	-	-	-	-	
	MONTH	175.2	250	27	23	13.1	7.3	10.2	-0.6	1.6	16	0	180	-	37	-	-1.0	16	1	11.4	-	161.2	83	6.7	15	82	-	-	-	-	-	-	-	-	-	
Killarney (Muckross House) Co. Kerry	1-10	100.9	-	10	10	11.5	6.7	9.1	-	2.5	2	0	48	-	8	-	-1.6	4	2	-	-	32.2	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	70.9	-	10	8	13.1	7.1	10.1	-	1.0	16	0	58	-	12	-	-2.2	16	2	-	-	64.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	45.0	-	9	8	12.8	7.8	10.3	-	6.0	21	0	65	-	11	-	2.1	24	0	-	-	55.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	216.8	221	29	26	12.5	7.2	9.9	-	1.0	16	0	171	-	31	-	-2.2	16	4	-	-	152.6	-	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 1 (CONTINUED)

MAY

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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
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	76.0	-	10	8	11.8	6.7	9.3	-	3.4	4	0	49	-	8	-	1.0	4	0	10.5	-	34.0	-	6.4	4	-
	11-20	61.0	-	8	8	13.6	7.7	10.6	-	2.7	16	0	63	-	15	-	0.5	16	0	11.7	-	54.3	-	7.4	7	-
	21-END	45.6	-	9	9	12.6	8.2	10.4	-	6.8	22	0	66	-	10	-	4.5	22	0	12.1	-	59.6	-	7.6	6	-
	MONTH	182.6	215	27	25	12.7	7.5	10.1	-1.1	2.7	16	0	178	81	33	51	0.5	16	0	11.5	-1.7	147.9	79	7.2	17	80
Ardfert (Liscahane) Co. Kerry	1-10	73.3	-	10	8	12.2	6.4	9.3	-	2.0	4	0	50	-	11	-	-2.2	4	2	-	-	32.9	-	-	-	-
	11-20	31.3	-	8	6	13.7	7.4	10.6	-	3.7	16	0	62	-	15	-	-2.8	16	2	-	-	70.4	-	-	-	-
	21-END	36.1	-	9	9	12.7	7.4	10.1	-	5.4	21	0	62	-	9	-	N/A	N/A	-	-	-	69.1	-	-	-	-
	MONTH	140.7	-	27	23	12.9	7.1	10.0	-	2.0	4	0	174	-	35	-	N/A	N/A	-	-	-	172.4	-	-	-	-
Lullymore Co. Kildare	1-10	33.3	-	8	8	12.7	5.3	9.0	-	2.5	7	0	47	-	10	-	-3.3	4	3	-	-	36.7	-	5.0	-	-
	11-20	25.4	-	6	6	14.0	4.8	9.4	-	0.2	16	0	53	-	13	-	-5.1	16	4	-	-	56.2	-	5.5	-	-
	21-END	24.0	-	6	6	14.2	5.7	9.9	-	2.1	30	0	61	-	15	-	-2.0	30	3	-	-	68.3	-	6.5	-	-
	MONTH	82.7	131	20	20	13.6	5.3	9.4	-	0.2	16	0	161	-	38	-	-5.1	16	10	-	-	161.2	-	5.6	-	74
Kilkenny Co. Kilkenny	1-10	41.6	-	9	9	12.8	6.4	9.6	-	3.7	2	0	52	-	10	-	-1.0	8	2	10.0	-	22.1	-	4.2	3	-
	11-20	31.9	-	8	5	14.2	5.8	10.0	-	-0.1	16	1	58	-	15	-	-5.5	16	3	11.1	-	61.5	-	5.0	3	-
	21-END	18.8	-	10	5	14.4	6.7	10.6	-	1.7	30	0	68	-	18	-	-3.8	30	2	12.3	-	64.8	-	5.4	6	-
	MONTH	92.3	147	27	19	13.8	6.3	10.1	-0.6	-0.1	16	1	179	86	43	59	-5.5	16	7	11.2	-1.8	148.4	83	4.9	12	74
Mooncoin (Silverspring) Co. Kilkenny	1-10	26.1	-	7	7	12.5	6.6	9.5	-	3.5	2	0	52	-	8	-	-1.8	2	2	-	-	29.9	-	-	-	-
	11-20	47.3	-	7	7	13.9	6.2	10.0	-	-1.0	16	1	59	-	14	-	-4.1	16	2	-	-	66.3	-	-	-	-
	21-END	22.7	-	7	7	14.4	7.2	10.8	-	1.6	30	0	71	-	19	-	-3.0	30	1	-	-	66.8	-	-	-	-
	MONTH	96.1	137	21	21	13.6	6.7	10.2	-	-1.0	16	1	182	-	41	-	-4.1	16	5	-	-	163.0	-	-	-	-
Ballinamore Co. Leitrim	1-10	32.6	-	7	5	12.8	6.3	9.6	-	3.4	4	0	52	-	10	-	-1.3	4	2	-	-	31.3	-	3.8	-	-
	11-20	49.2	-	8	7	14.0	6.0	10.0	-	-0.3	16	1	57	-	15	-	-4.5	16	2	-	-	49.8	-	3.8	-	-
	21-END	70.2	-	10	8	13.1	6.4	9.8	-	4.0	21	0	59	-	11	-	-0.4	29	1	-	-	58.5	-	4.7	-	-
	MONTH	152.0	208	25	20	13.3	6.2	9.8	-	-0.3	16	1	169	-	35	-	-4.5	16	5	-	-	139.6	-	4.1	-	68
Ardee (Boharnamoe) Co. Louth	1-10	26.8	-	7	6	13.6	6.4	10.0	-	4.1	4	0	56	-	13	-	-0.1	9	1	-	-	-	-	-	-	-
	11-20	26.4	-	9	7	14.5	5.6	10.0	-	0.2	16	0	58	-	16	-	-4.1	16	2	-	-	-	-	-	-	-
	21-END	32.2	-	8	7	14.6	6.6	10.6	-	3.1	29	0	68	-	18	-	-0.2	29	1	-	-	-	-	-	-	-
	MONTH	85.4	142	24	20	14.2	6.2	10.2	-	0.2	16	0	183	-	46	-	-4.1	16	4	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

MAY 1986

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	77.1	-	9	8	12.4	5.8	9.1	-	3.2	7	0	47	-	8	-	-0.8	7	1	-	-	26.7	-	4.3	-	-	-
	11-20	57.2	-	8	8	13.8	7.0	10.4	-	2.3	16	0	60	-	13	-	-5.1	16	3	-	-	53.3	-	5.0	-	-	-
	21-END	81.9	-	10	9	12.9	6.9	9.9	-	5.3	22	0	61	-	10	-	3.2	22	0	-	-	55.8	-	5.5	-	-	-
	MONTH	216.2	270	27	25	13.0	6.6	9.8	-	2.3	16	0	168	-	31	-	-5.1	16	4	-	-	135.8	-	4.9	-	70	-
Belmullet Co. Mayo	1-10	56.7	-	10	8	11.9	6.3	9.1	-	4.3	4	0	47	-	6	-	1.3	8	0	10.1	-	32.1	-	7.6	3	-	-
	11-20	36.7	-	9	5	13.4	7.1	10.3	-	3.8	14	0	59	-	14	-	1.0	16	0	12.0	-	64.8	-	7.8	4	-	-
	21-END	57.5	-	10	9	12.0	7.0	9.5	-	4.8	22	0	56	-	6	-	3.6	22	0	11.6	-	60.7	-	9.2	8	-	-
	MONTH	150.9	225	29	22	12.4	6.8	9.6	-1.1	3.8	14	0	162	79	26	46	1.0	16	0	11.2	-1.4	157.6	78	8.2	15	79	-
Claremorris Co. Mayo	1-10	53.6	-	10	8	12.4	5.7	9.1	-	3.2	4	0	47	-	8	-	1.8	4	0	9.3	-	25.4	-	5.7	2	-	-
	11-20	56.9	-	9	8	13.9	6.0	9.9	-	0.7	16	0	57	-	15	-	-3.3	16	3	10.6	-	44.6	-	5.8	4	-	-
	21-END	64.3	-	9	8	12.8	6.7	9.7	-	4.9	22	0	59	-	10	-	2.1	29	0	11.0	-	42.3	-	6.8	6	-	-
	MONTH	174.8	243	28	24	13.0	6.2	9.6	-0.8	0.7	16	0	163	83	33	52	-3.3	16	3	10.3	-1.7	112.3	65	6.1	12	65	-
Glenamoy Co. Mayo	1-10	52.9	-	9	9	11.9	6.4	9.2	-	4.5	4	0	48	-	6	-	1.6	6	0	-	-	25.7	-	4.6	-	-	-
	11-20	39.0	-	6	6	13.3	7.0	10.1	-	3.4	16	0	58	-	12	-	-1.6	16	2	-	-	57.7	-	5.5	-	-	-
	21-END	72.6	-	11	11	12.7	7.3	10.0	-	5.1	22	0	62	-	10	-	2.9	22	0	-	-	50.2	-	6.3	-	-	-
	MONTH	164.5	198	26	26	12.6	6.9	9.8	-	3.4	16	0	167	-	28	-	-1.6	16	2	-	-	133.6	-	5.5	-	68	-
Dunsany (Grange) Co. Meath	1-10	30.7	-	8	7	12.7	6.1	9.4	-	3.1	4	0	50	-	10	-	0.6	9	0	-	-	33.5	-	-	-	-	-
	11-20	26.4	-	8	7	13.8	5.6	9.7	-	0.0	16	0	55	-	13	-	-3.7	16	2	-	-	58.7	-	-	-	-	-
	21-END	29.9	-	10	9	13.7	6.6	10.2	-	3.7	29	0	64	-	14	-	-0.8	29	2	-	-	65.3	-	-	-	-	-
	MONTH	87.0	140	26	23	13.4	6.1	9.8	-	0.0	16	0	169	-	37	-	-3.7	16	4	-	-	157.5	-	-	-	-	-
Clones Co. Monaghan	1-10	20.5	-	7	4	13.2	6.5	9.8	-	4.0	4	0	55	-	11	-	2.5	2	0	9.8	-	33.8	-	5.7	2	-	-
	11-20	26.7	-	8	5	14.0	6.1	10.1	-	2.0	16	0	58	-	15	-	-4.4	16	1	10.9	-	53.1	-	6.1	6	-	-
	21-END	61.2	-	10	10	13.0	6.6	9.8	-	3.9	22	0	59	-	11	-	1.5	28	0	11.2	-	60.5	-	6.3	7	-	-
	MONTH	108.4	167	25	19	13.4	6.4	9.9	-0.5	2.0	16	0	172	87	37	58	-4.4	16	1	10.6	-1.7	147.4	87	6.1	15	78	-
Birr Co. Offaly	1-10	44.5	-	9	8	12.4	6.6	9.5	-	3.2	4	0	51	-	10	-	-1.6	4	1	10.0	-	27.6	-	4.0	2	-	-
	11-20	28.0	-	7	6	14.1	6.4	10.3	-	1.5	16	0	60	-	16	-	-4.1	16	2	11.1	-	51.4	-	4.5	4	-	-
	21-END	29.6	-	10	7	13.7	7.0	10.4	-	4.5	30	0	66	-	15	-	1.7	30	0	11.4	-	56.0	-	4.9	5	-	-
	MONTH	102.1	165	26	21	13.4	6.6	10.0	-0.7	1.5	16	0	177	85	41	58	-4.1	16	3	10.9	-2.1	135.0	75	4.5	11	72	-

TABLE 1 (CONTINUED)

MAY 1986

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 (Knockavilla) Co. Tipperary	1-10	51.0	-	10	9	12.7	6.3	9.5	-	1.8	4	0	52	-	11	-	-1.3	8	2	-	-	-	-	-	-	-	-	-
	11-20	33.8	-	9	8	14.2	6.0	10.1	-	-1.3	16	1	60	-	16	-	-4.2	16	3	-	-	-	-	-	-	-	-	-
	21-END	26.4	-	9	8	13.9	6.0	10.0	-	2.4	31	0	62	-	13	-	-1.4	30	1	-	-	-	-	-	-	-	-	-
	MONTH	111.2	-	28	25	13.6	6.1	9.9	-	-1.3	16	1	173	-	40	-	-4.2	16	6	-	-	-	-	-	-	-	-	-
Dungarvan (Carriglea) Co. Waterford	1-10	37.4	-	9	8	12.9	7.2	10.1	-	5.8	8	0	57	-	10	-	4.4	5	0	-	-	43.8	-	4.0	-	-	-	-
	11-20	53.0	-	8	6	13.9	6.5	10.2	-	0.9	16	0	60	-	15	-	-0.7	14	1	-	-	69.8	-	4.4	-	-	-	-
	21-END	19.9	-	8	7	14.7	7.3	11.0	-	2.1	30	0	73	-	19	-	1.6	30	0	-	-	65.9	-	4.6	-	-	-	-
	MONTH	110.3	141	25	21	13.8	7.0	10.4	-	0.9	16	0	190	-	44	-	-0.7	14	1	-	-	179.5	-	4.3	-	69	-	-
Mullingar Co. Westmeath	1-10	45.4	-	9	8	12.4	5.9	9.1	-	3.6	4	0	48	-	8	-	0.4	4	0	9.7	-	35.8	-	5.8	2	-	-	-
	11-20	29.7	-	8	7	13.9	5.8	9.8	-	1.0	16	0	56	-	14	-	-2.1	16	1	10.8	-	61.0	-	6.1	3	-	-	-
	21-END	40.5	-	9	9	13.5	6.6	10.1	-	3.9	30	0	63	-	14	-	1.4	30	0	11.3	-	67.7	-	6.9	6	-	-	-
	MONTH	115.6	173	26	24	13.3	6.1	9.7	-0.6	1.0	16	0	166	82	35	51	-2.1	16	1	10.6	-1.8	164.5	91	6.3	11	81	-	-
J.F.K. Park Co. Wexford	1-10	27.5	-	7	6	11.7	6.3	9.0	-	2.5	1	0	46	-	5	-	-0.1	8	1	-	-	31.3	-	7.1	-	-	-	-
	11-20	36.0	-	7	5	12.9	6.3	9.6	-	2.4	16	0	53	-	10	-	-3.5	16	4	-	-	55.6	-	7.9	-	-	-	-
	21-END	19.1	-	7	6	13.9	7.1	10.5	-	4.0	28	0	67	-	15	-	-3.2	28	2	-	-	70.4	-	7.8	-	-	-	-
	MONTH	82.6	113	21	17	12.8	6.6	9.7	-	2.4	16	0	167	-	29	-	-3.5	16	7	-	-	157.3	-	7.6	-	78	-	-
Clonroche Co. Wexford	1-10	32.5	-	9	9	11.8	6.5	9.1	-	4.7	4	0	47	-	6	-	-1.4	4	2	-	-	28.6	-	3.0	-	-	-	-
	11-20	43.0	-	9	6	13.0	5.8	9.4	-	0.6	16	0	52	-	10	-	-6.0	16	5	-	-	66.2	-	3.5	-	-	-	-
	21-END	24.2	-	7	6	13.9	6.8	10.4	-	4.6	30	0	65	-	15	-	-3.3	30	4	-	-	74.7	-	3.9	-	-	-	-
	MONTH	99.7	122	25	21	13.0	6.4	9.7	-	0.6	16	0	165	-	30	-	-6.0	16	11	-	-	169.5	-	3.5	-	67	-	-
Johnstown Castle Co. Wexford	1-10	19.6	-	8	5	11.4	6.8	9.1	-	5.4	4	0	47	-	4	-	0.4	2	0	-	-	31.2	-	5.9	-	-	-	-
	11-20	32.4	-	6	5	12.5	6.5	9.5	-	3.4	16	0	51	-	8	-	-2.4	16	2	-	-	69.6	-	6.5	-	-	-	-
	21-END	23.0	-	7	6	13.4	7.5	10.5	-	4.8	28	0	67	-	13	-	-0.5	28	1	-	-	83.4	-	6.5	-	-	-	-
	MONTH	75.0	112	21	16	12.4	6.9	9.7	-	3.4	16	0	165	-	25	-	-2.4	16	3	-	-	184.2	-	6.3	-	73	-	-
Rosslare Co. Wexford	1-10	18.6	-	7	5	11.4	7.5	9.5	-	6.5	5	0	51	-	4	-	4.4	3	0	10.9	-	47.5	-	7.3	5	-	-	-
	11-20	30.0	-	5	4	12.6	7.5	10.1	-	3.0	15	0	57	-	9	-	-0.8	16	1	12.2	-	78.0	-	7.1	4	-	-	-
	21-END	15.5	-	6	4	13.7	8.2	11.0	-	5.4	28	0	72	-	16	-	2.0	28	0	13.1	-	84.3	-	7.2	7	-	-	-
	MONTH	64.1	109	18	13	12.6	7.8	10.2	-0.6	3.0	15	0	180	87	30	60	-0.8	16	1	12.1	-1.2	209.8	96	7.2	16	89	-	-

TABLE 2 GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m ²
Malin Head Co. Donegal	1-10	138.01
	11-20	140.03
	21-end	185.36
	Month	463.40
Dublin Airport Co. Dublin	1-10	131.29
	11-20	174.91
	21-end	197.49
	Month	503.69
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	122.14
	11-20	159.29
	21-end	185.32
	Month	466.75
Kilkenny Co. Kilkenny	1-10	113.82
	11-20	167.54
	21-end	203.95
	Month	485.31
Belmullet Co. Mayo	1-10	118.42
	11-20	173.45
	21-end	175.87
	Month	467.74
Clones Co. Monaghan	1-10	127.58
	11-20	160.08
	21-end	173.32
	Month	460.98
Birr Co. Offaly	1-10	117.58
	11-20	160.47
	21-end	185.92
	Month	463.97

Notes on the tables in January issue

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

STATION	PERIOD	P.E. (mm)		SOIL MOISTURE (mm)	
		Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-9	10.5	-	0	26
	10-19	11.4	-	0	17
	20-end	32.9	2	2	-
	Month	54.8	-	-	-
Kinsealy Co. Dublin	1-10	18.8	-	5	2
	11-20	25.1	9	14	-
	21-end	30.2	1	15	-
	Month	74.1	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	13.7	-	0	63
	11-20	10.6	-	0	36
	21-end	33.6	-	0	24
	Month	57.9	-	-	-
Ballinamore Co. Leitrim	1-10	13.1	-	0	20
	11-19	16.1	-	0	22
	20-end	21.4	-	0	59
	Month	50.6	-	-	-
Glenamoy Co. Mayo	1-10	2.4	-	0	51
	11-19	8.1	-	0	23
	20-end	28.5	-	0	61
	Month	39.0	-	-	-
Johnstown Castle Co. Wexford	1-10	15.3	-	0	4
	11-19	19.8	-	0	7
	20-end	28.3	-	0	1
	Month	63.4	-	-	-

- 7 -

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	10.4	9.1	7.3	-0.4
11-20	12.4		10.5	8.4	-0.4	N/A	57
21-end	13.0		11.0	9.2	-0.7	N/A	55
Mineral	1-10	11.3	9.2	7.1	-0.3	N/A	56
	11-20	13.0	10.3	8.2	-0.2	N/A	53
	21-end	13.3	10.9	8.4	-0.4	N/A	54

special topic

THE COLD SPRING SEASON OF 1986
(continued)

The table below shows the accumulations of heat units or degree days up to June 1, 1986 above a range of base temperature values. The bases used in the table are 0°C, which is used widely because of its appropriateness to the germination of grasses etc, 4.4°C, used as a threshold for the growth of the pea crop, 5.6°C, as an indicator of general grass growth and 10°C for conditions of strong growth and heat-seeking crops e.g. maize.

The 1st column under each base gives the total accumulation to June 1 and the 2nd column gives a translation of the difference between the current year and the average yearly accumulation in terms of equivalent days lost (-). The average accumulations are also shown with respect to bases 4.4°C and 10.0°C.

As regards the accumulation of degree days above the lowest base temperature, the season to date is shown to be well behind average, ranging from 22 days late at Roche's Point and Belmullet to 15 days at Malin Head. In relation to the bases 4.4°C and 5.6°C respectively the delay varies from 30 and 32 days at Valentia Observatory and Belmullet to 17 and 15 days at Casement Aerodrome. The 10°C threshold total suggest lateness of 36 days at Valentia Observatory but only 8 days at Casement Aerodrome, the average being about 20 days.

ACCUMULATED DEGREE DAYS JAN 1 - JUNE 1, 1986

Base Station	0°C		4.4°C		5.6°C		10.0°C	
	1986	+/- D	1986	AV. +/-D	1986	+/- D	1986	AV. +/-D
Roche's Point	965	-22	391	(575) -29	274	-30	35	(75) -23
Valentia Observatory	1040	-21	453	(634) -30	327	-32	47	(101) -36
Cork Airport	850	-20	332	(471) -23	233	-22	32	(64) -20
Rosslare	961	-19	384	(534) -25	270	-24	39	(64) -15
Kilkenny	898	-16	385	(510) -19	285	-19	65	(99) -15
Shannon Airport	979	-17	426	(590) -23	315	-23	64	(117) -22
Galway	916	-17	378	(522) -20	274	-20	46	(87) -19
Birr	868	-19	360	(507) -23	265	-22	56	(96) -19
Casement Aerodrome	860	-16	363	(472) -17	271	-15	66	(87) -8
Dublin Airport	905	-16	379	(491) -19	280	-18	67	(83) -10
Claremorris	810	-20	316	(467) -25	227	-24	38	(81) -23
Mullingar	797	-20	319	(460) -22	233	-22	47	(88) -20
Clones	812	-17	321	(446) -21	234	-20	47	(81) -19
Belmullet	903	-22	352	(528) -30	245	-31	29	(72) -28
Malin Head	910	-15	340	(452) -20	233	-20	30	(52) -18