

METEOROLOGICAL SERVICE

METEOROLOGICAL OFFICE,
ROSSLARE,
CO. WEXFORD

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OCTOBER 1985

AGROMETEOROLOGICAL BULLETIN

The Weather of October

The spell from the 1st to the 11th was relatively mild; a southwesterly airflow prevailed although the flow from the 7th to the 9th was more westerly and cooler. The daily passage of frontal troughs gave spells of rain in all areas, especially on the 3rd and 4th when it was thundery in places, and on the 6th. A deepening low off the northwest of Ireland on the 10th resulted in a temporary freshening of the southwest winds.

High pressure developed on the 12th and dominated weather conditions to the end of the month. As each high pressure cell declined into Europe other cells replaced them in the vicinity of Ireland. Occasionally, e.g. 18th, 21st, 25th and 30th, weak troughs crossed the country and on the 23rd moderate southwesterly winds set in as a trough approached from the west. This trough also weakened under the influence of an advancing Azores high cell. When the high was centred to the north of Ireland on the 24th/25th, a moderate northeasterly wind developed over the country. Winds slackened when the high extended southwards again and fog became widespread from 28th to 30th. As the high declined westwards a northeasterly wind set in and a frontal trough over Britain affected the country, giving widespread rain on the 31st, particularly in the south and east.

Precipitation:

Monthly precipitation amounts were well below normal everywhere. Amounts varied from 81% of normal at Dungarvan (Carriglea) to 28% at Kinsealy. Many areas received between 60% and 75% but only 40% in the south midlands. There was very little rainfall after the 10th. Wettest days were 1st to 8th, particularly 3rd and 6th, 10th and 31st. Moderate soil moisture deficits developed in many areas; the deficits at the six recording stations (see Table 3) varied from 26mm at Kinsealy to 4mm at Glenamoy.

Temperature:

Mean air temperature was above normal except in the west. Values varied from 0.8C° above at Rosslare to 0.4C° below at Belmullet. Soil temperatures (100mm) gradually declined during the month although generally above normal except in the spell 6-10th; deviations from average varied from 1.5C°-2.6C° above in the spell 11th-15th to 0.3C°-0.6C° below for 6th-10th. Ground frost was widespread on the 23rd, 26th and 29th; first occurrence at Kilkenny was on the 5th.

Sunshine and Radiation:

Sunshine duration was below normal except at Malin Head and Cahirciveen, and was well below normal in many areas. Amounts varied from 54% at Rosslare to 127% at Malin Head. In general the second decade was dullest. Global radiation was 104% at Cahirciveen but only 64% at Birr.

Wind:

Gale gusts were mainly confined to coastal stations and occurred mostly in the first decade.

Summary:

Very dry and mild, but mainly dull. The month was in marked contrast to the previous five months, especially in the west and north (September precipitation had also been well below normal in the midlands and east).

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

OCTOBER 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	35.9	-	6	6	15.5	9.6	12.6	-	4.0	8	0	82	-	30	-	0.4	8	0	-	-	31.8	-	0.8	-	-	
	11-20	0.0	-	0	0	13.7	7.7	10.7	-	3.0	15	0	63	-	15	-	1.0	15	0	-	-	26.3	-	1.0	-	-	
	21-END	4.9	-	2	2	11.4	2.6	7.0	-	0.4	26	0	35	-	5	-	-1.0	23	4	-	-	17.8	-	1.5	-	-	
	MONTH	40.8	53	8	8	13.5	6.5	10.0	-	0.4	26	0	179	-	51	-	-1.0	23	4	-	-	75.9	-	1.1	-	10	
Shannon Airport Co. Clare	1-10	50.7	-	10	8	16.4	10.8	13.6	-	7.5	8	0	92	-	37	-	4.0	8	0	13.0	-	29.2	-	6.1	5	-	
	11-20	0.2	-	0	0	14.9	9.9	12.4	-	7.4	16	0	80	-	25	-	4.8	16	0	12.4	-	25.6	-	1.8	0	-	
	21-END	2.4	-	2	1	12.3	6.3	9.3	-	2.6	29	0	55	-	10	-	-0.7	26	1	10.1	-	25.6	-	1.9	0	-	
	MONTH	53.3	63	12	9	14.5	8.9	11.7	+0.5	2.6	29	0	227	102	73	124	-0.7	26	1	11.8	-0.0	80.4	94	3.2	5	22	
Cork Airport Co. Cork	1-10	82.4	-	10	9	14.6	9.5	12.1	-	5.1	8	0	77	-	25	-	2.7	8	0	12.4	-	31.4	-	8.8	9	-	
	11-20	1.2	-	1	1	13.5	9.6	11.6	-	7.4	18	0	72	-	18	-	4.5	12	0	12.2	-	13.8	-	3.7	0	-	
	21-END	0.9	-	1	0	12.0	6.9	9.4	-	3.0	29	0	56	-	8	-	2.6	29	0	10.1	-	24.1	-	4.3	0	-	
	MONTH	84.5	70	12	10	13.3	8.6	11.0	+0.5	3.0	29	0	204	103	52	100	2.6	29	0	11.6	+0.4	69.3	75	5.6	9	21	
Fermoy (Coolnakilla) Co. Cork	1-10	80.4	-	10	6	14.4	8.9	11.6	-	4.8	8	0	72	-	21	-	2.4	8	0	-	-	27.8	-	5.4	-	-	
	11-20	1.1	-	2	0	12.8	8.6	10.7	-	6.0	18	0	63	-	13	-	5.4	12	0	-	-	16.9	-	2.9	-	-	
	21-END	2.5	-	1	1	10.6	6.0	8.3	-	2.6	29	0	44	-	4	-	-1.5	24	4	-	-	19.6	-	2.5	-	-	
	MONTH	84.0	-	13	7	12.5	7.8	10.1	-	2.6	29	0	179	-	38	-	-1.5	24	4	-	-	64.3	-	3.6	-	9	
Fermoy (Moore Park) Co. Cork	1-10	62.6	-	7	6	15.7	9.3	12.5	-	1.7	8	0	82	-	31	-	-3.3	8	1	-	-	27.8	-	3.7	-	-	
	11-20	0.0	-	0	0	14.6	9.1	11.9	-	5.4	12	0	75	-	22	-	1.6	12	0	-	-	17.6	-	1.1	-	-	
	21-END	0.7	-	1	0	12.1	5.4	8.7	-	1.1	29	0	50	-	9	-	N/A	N/A	-	-	-	21.1	-	1.4	-	-	
	MONTH	63.3	69	8	6	14.1	7.8	11.0	-	1.1	29	0	206	-	61	-	N/A	N/A	-	-	-	66.5	-	2.1	-	13	
Roches Point Co. Cork	1-10	62.2	-	10	7	15.2	10.7	12.9	-	6.7	8	0	85	-	31	-	3.6	8	0	13.2	-	27.5	-	8.9	9	-	
	11-20	0.4	-	1	0	14.0	10.8	12.4	-	8.4	18	0	80	-	25	-	7.5	18	0	13.7	-	14.3	-	2.9	0	-	
	21-END	0.2	-	1	0	12.9	8.4	10.6	-	5.3	29	0	69	-	14	-	2.7	29	0	11.3	-	22.4	-	3.8	0	-	
	MONTH	62.8	71	12	7	14.0	9.9	12.0	+0.5	5.3	29	0	234	101	70	103	2.7	29	0	12.7	+0.5	64.2	68	5.2	9	25	
Glencolumbkille Co. Donegal	1-10	49.5	-	10	10	14.5	10.4	12.5	-	7.5	8	0	81	-	26	-	3.6	8	0	-	-	N/A	-	5.2	-	-	
	11-20	0.1	-	0	0	14.5	9.9	12.2	-	6.7	12	0	78	-	23	-	1.8	12	0	-	-	N/A	-	1.9	-	-	
	21-END	7.8	-	3	1	12.0	6.0	9.0	-	4.0	30	0	51	-	6	-	-4.0	29	6	-	-	N/A	-	2.3	-	-	
	MONTH	57.4	-	13	11	13.6	8.7	11.1	-	4.0	30	0	209	-	56	-	-4.0	29	6	-	-	N/A	-	3.1	-	N/A	
SEPTEMBER 1985 ERRATA																											
Cork Airport Co. Cork	21-END	33.6	-	7	4	16.4	12.9	14.7	-	10.6	24	0	103	-	47	-	7.0	24	0	14.8	-	16.5	-	6.8	2	-	
	MONTH	80.3	70	20	11	16.4	11.0	13.7	+0.8	6.6	6	0	280	106	117	118	2.6	6	0	14.4	+0.8	107.1	89	6.4	7	44	

TABLE 1 (CONTINUED)

OCTOBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (mm)											
		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												
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.0°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	73.7	-	10	10	14.6	10.1	12.3	-	5.2	8	0	79	-	26	-	3.7	8	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	14.4	7.8	11.1	-	2.1	16	0	68	-	18	-	-0.3	16	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	3.2	-	3	1	12.3	4.0	8.2	-	-0.5	29	1	46	-	7	-	-2.9	29	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	76.9	50	13	11	13.7	7.2	10.5	-	-0.5	29	1	193	-	51	-	-2.9	29	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Malin Head Co. Donegal	1-10	29.0	-	9	8	15.0	10.6	12.8	-	7.7	8	0	84	-	29	-	6.2	8	0	12.2	-	31.6	-	10.9	10	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	14.4	8.8	11.6	-	6.1	16	0	72	-	20	-	3.4	19	0	11.0	-	28.9	-	4.7	1	-	-	-	-	-	-	-	-	-	-
	21-END	1.4	-	1	1	12.1	7.0	9.6	-	4.5	30	0	57	-	7	-	0.5	26	0	8.9	-	34.5	-	6.1	3	-	-	-	-	-	-	-	-	-	-
	MONTH	30.4	29	10	9	13.8	8.7	11.3	+0.3	4.5	30	0	213	100	57	106	0.5	26	0	10.7	-0.0	95.0	127	7.2	14	29	-	-	-	-	-	-	-	-	-
Casement Aerodrome Co. Dublin	1-10	17.3	-	7	5	16.0	9.5	12.8	-	5.3	8	0	84	-	32	-	4.0	8	0	12.5	-	33.9	-	9.6	10	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	13.9	7.6	10.7	-	3.1	15	0	64	-	15	-	1.6	15	0	11.4	-	17.0	-	1.6	1	-	-	-	-	-	-	-	-	-	-
	21-END	9.7	-	2	2	12.4	4.0	8.2	-	0.4	26	0	46	-	7	-	-3.0	26	3	9.0	-	29.8	-	1.6	0	-	-	-	-	-	-	-	-	-	-
	MONTH	27.0	40	9	7	14.0	6.9	10.5	+0.2	0.4	26	0	193	97	54	90	-3.0	26	3	11.0	-	80.7	83	4.2	11	20	-	-	-	-	-	-	-	-	-
Dublin Airport Co. Dublin	1-10	13.4	-	8	5	16.0	10.2	13.1	-	4.6	8	0	87	-	35	-	2.4	8	0	12.9	-	25.8	-	6.3	3	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	14.2	8.6	11.4	-	6.1	16	0	70	-	19	-	1.4	16	0	11.7	-	19.1	-	1.3	1	-	-	-	-	-	-	-	-	-	-
	21-END	6.3	-	2	1	12.6	6.3	9.4	-	3.8	29	0	56	-	8	-	-1.0	24	4	9.7	-	29.3	-	2.3	0	-	-	-	-	-	-	-	-	-	-
	MONTH	19.7	29	10	6	14.2	8.3	11.3	+0.6	3.8	29	0	213	102	62	103	-1.0	24	4	11.4	+0.3	74.2	75	3.3	4	21	-	-	-	-	-	-	-	-	-
Kinsealy Co. Dublin	1-10	11.0	-	8	3	16.1	9.8	12.9	-	4.3	8	0	85	-	33	-	2.6	8	0	-	-	26.2	-	4.8	-	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	13.9	7.4	10.7	-	4.0	15	0	63	-	15	-	1.0	15	0	-	-	19.3	-	1.1	-	-	-	-	-	-	-	-	-	-	-
	21-END	7.5	-	2	2	12.5	4.3	8.4	-	2.5	24	0	46	-	7	-	-2.3	26	5	-	-	33.6	-	1.7	-	-	-	-	-	-	-	-	-	-	-
	MONTH	18.5	28	10	5	14.1	7.1	10.6	-	2.5	24	0	194	-	55	-	-2.3	26	5	-	-	79.1	-	2.6	-	16	-	-	-	-	-	-	-	-	-
Galway Co. Galway	1-10	64.9	-	10	10	15.3	10.6	12.9	-	7.3	8	0	85	-	31	-	5.3	8	0	12.9	-	33.0	-	7.7	6	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	14.5	8.9	11.7	-	5.6	16	0	73	-	21	-	5.0	11	0	12.6	-	25.1	-	2.1	0	-	-	-	-	-	-	-	-	-	-
	21-END	5.6	-	4	1	12.1	5.0	8.5	-	0.5	29	0	48	-	8	-	0.9	29	0	10.0	-	29.9	-	2.9	0	-	-	-	-	-	-	-	-	-	-
	MONTH	70.5	60	14	11	13.9	8.1	11.0	+0.2	0.5	29	0	206	-	60	-	0.9	29	0	11.8	-	88.0	95	4.2	6	21	-	-	-	-	-	-	-	-	-
Killarney (Muckross House) Co. Kerry	1-10	139.2	-	9	9	15.2	10.7	13.0	-	6.6	8	0	86	-	31	-	2.5	8	0	-	-	26.7	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	0.0	-	0	0	15.5	8.3	11.9	-	5.5	15	0	75	-	24	-	1.5	15	0	-	-	31.6	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	4.0	-	1	1	13.1	6.0	9.6	-	2.0	29	0	57	-	12	-	-1.5	29	1	-	-	36.2	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	143.2	90	10	10	14.6	8.3	11.4	-	2.0	29	0	218	-	67	-	-1.5	29	1	-	-	94.5	-	-	-	-	-	-	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

OCTOBER 1985

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (mm)		
		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			
						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	91.6	-	10	9	15.4	11.2	13.3	-	7.6	7	0	89	-	34	-	5.2	7	0	13.2	-	21.1	-	7.7	8	-
	11-20	0.0	-	0	0	15.8	9.0	12.4	-	4.1	15	0	81	-	28	-	1.1	15	0	12.9	-	27.5	-	2.5	0	-
	21-END	2.7	-	1	1	13.9	7.1	10.5	-	2.7	29	0	68	-	17	-	-0.2	29	1	10.7	-	45.3	-	3.0	0	-
	MONTH	94.3	66	11	10	15.0	9.0	12.0	+0.2	2.7	29	0	237	100	79	104	-0.2	29	1	12.3	+0.0	93.9	115	4.4	8	26
Ardfert (Liscahane) Co. Kerry	1-10	71.6	-	10	8	15.6	10.6	13.1	-	7.2	8	0	87	-	33	-	N/A	N/A	-	-	23.9	-	-	-	-	
	11-20	0.0	-	0	0	15.4	9.2	12.3	-	6.2	16	0	79	-	26	-	N/A	N/A	-	-	27.8	-	-	-	-	
	21-END	4.2	-	1	1	13.0	6.1	9.5	-	0.4	29	0	58	-	11	-	N/A	N/A	-	-	41.2	-	-	-	-	
	MONTH	75.8	-	11	9	14.6	8.5	11.6	-	0.4	29	0	224	-	70	-	N/A	N/A	-	-	92.9	-	-	-	-	
Lullymore Co. Kildare	1-10	N/A	-	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	-	-	N/A	-	N/A	-	-	-	
	11-20	N/A	-	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	-	-	N/A	-	N/A	-	-	-	
	21-END	N/A	-	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	-	-	N/A	-	N/A	-	-	-	
	MONTH	N/A	N/A	N/A	N/A	N/A	N/A	N/A	-	N/A	N/A	N/A	-	N/A	-	N/A	N/A	-	-	N/A	-	N/A	-	N/A	N/A	
Kilkenny Co. Kilkenny	1-10	31.8	-	7	6	16.2	9.3	12.7	-	3.9	5	0	83	-	33	-	-0.8	5	2	12.9	-	26.5	-	5.1	6	-
	11-20	0.1	-	0	0	14.4	7.9	11.2	-	5.6	12	0	68	-	19	-	1.8	15	0	12.2	-	18.6	-	1.0	0	-
	21-END	2.4	-	2	2	12.2	4.3	8.3	-	0.5	26	0	46	-	7	-	-1.9	26	5	9.9	-	17.2	-	1.2	0	-
	MONTH	34.3	41	9	8	14.2	7.1	10.6	+0.3	0.5	26	0	197	99	59	91	-1.9	26	7	11.7	+0.6	62.3	72	2.4	6	17
Mooncoin (Silverspring) Co. Kilkenny	1-10	53.0	-	8	7	15.9	9.7	12.8	-	1.7	8	0	85	-	33	-	-3.8	8	3	-	-	32.0	-	-	-	-
	11-20	0.0	-	0	0	14.5	8.5	11.5	-	4.2	15	0	71	-	20	-	0.0	12	0	-	-	14.9	-	-	-	-
	21-END	0.0	-	0	0	12.1	4.9	8.5	-	1.0	26	0	47	-	7	-	-4.2	26	7	-	-	17.0	-	-	-	-
	MONTH	53.0	55	8	7	14.1	7.6	10.9	-	1.0	26	0	203	-	60	-	-4.2	26	10	-	-	63.9	-	-	-	-
Ballinamore Co. Leitrim	1-10	66.6	-	10	9	14.8	9.3	12.1	-	4.1	8	0	77	-	26	-	-1.2	8	1	-	-	24.9	-	4.0	-	-
	11-20	0.5	-	2	0	12.8	7.5	10.2	-	5.1	15	0	58	-	12	-	-0.1	15	1	-	-	7.1	-	0.6	-	-
	21-END	0.9	-	1	0	12.4	3.5	8.0	-	0.1	28	0	44	-	8	-	-4.9	29	8	-	-	37.7	-	0.9	-	-
	MONTH	69.0	62	13	9	13.3	6.7	10.0	-	0.1	28	0	179	-	45	-	-4.9	29	10	-	-	69.7	-	1.8	-	11
Ardee (Boharnamoe) Co. Louth	1-10	31.6	-	10	6	16.1	9.6	12.8	-	3.9	8	0	84	-	33	-	0.6	8	0	-	-	-	-	-	-	-
	11-20	0.2	-	1	0	14.1	7.1	10.6	-	4.1	13	0	62	-	15	-	1.1	12	0	-	-	-	-	-	-	-
	21-END	13.7	-	2	2	12.5	3.0	7.7	-	-0.1	29	1	42	-	8	-	-3.9	23	7	-	-	-	-	-	-	-
	MONTH	45.5	55	13	8	14.2	6.4	10.3	-	-0.1	29	1	188	-	56	-	-3.9	23	7	-	-	-	-	-	-	-

TABLE 1 (CONTINUED)

OCTOBER 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	68.7	-	10	10	15.2	9.7	12.4	-	7.0	7	0	80	-	27	-	2.6	6	0	-	-	24.4	-	4.9	-	-
	11-20	0.6	-	1	0	13.3	8.4	10.8	-	5.4	16	0	64	-	15	-	0.0	16	0	-	-	11.2	-	1.1	-	-
	21-END	1.2	-	2	0	12.4	3.1	7.7	-	-1.6	29	1	43	-	8	-	-6.0	29	8	-	-	37.0	-	1.6	-	-
	MONTH	70.5	56	13	10	13.6	6.9	10.2	-	-1.6	29	1	187	-	50	-	-6.0	29	8	-	-	72.6	-	2.6	-	13
Belmullet Co. Mayo	1-10	61.3	-	10	9	14.4	10.1	12.2	-	7.6	8	0	78	-	24	-	5.2	8	0	12.9	-	29.3	-	9.8	8	-
	11-20	1.0	-	2	0	14.6	8.9	11.7	-	4.6	15	0	73	-	22	-	0.8	15	0	12.3	-	13.2	-	2.8	1	-
	21-END	7.6	-	5	2	13.1	4.7	8.9	-	1.1	29	0	53	-	11	-	-1.9	29	5	10.6	-	40.0	-	3.3	0	-
	MONTH	69.9	62	17	11	14.0	7.8	10.9	-0.4	1.1	29	0	204	94	56	95	-1.9	29	5	11.9	+0.3	82.5	97	5.2	9	18
Claremorris Co. Mayo	1-10	59.9	-	10	9	14.6	9.3	11.9	-	5.7	7	0	75	-	23	-	2.3	8	0	12.3	-	22.1	-	6.7	6	-
	11-20	0.1	-	0	0	13.1	7.9	10.5	-	5.2	16	0	61	-	13	-	2.4	18	0	11.8	-	8.5	-	1.5	0	-
	21-END	1.4	-	2	0	12.1	3.0	7.5	-	-0.4	29	1	40	-	6	-	-3.5	29	5	9.0	-	33.8	-	2.6	0	-
	MONTH	61.4	53	12	9	13.2	6.6	9.9	-0.2	-0.4	29	1	177	94	43	81	-3.5	29	5	11.0	+0.3	64.4	83	3.6	6	13
Glenamoy Co. Mayo	1-10	73.0	-	10	10	14.8	9.6	12.2	-	6.6	8	0	78	-	25	-	4.2	8	0	-	-	32.5	-	5.8	-	-
	11-20	0.7	-	2	0	15.1	8.5	11.8	-	5.0	16	0	74	-	22	-	0.6	16	0	-	-	19.4	-	0.5	-	-
	21-END	7.4	-	4	1	12.8	4.2	8.5	-	0.6	28	0	49	-	9	-	-3.1	28	5	-	-	37.2	-	1.7	-	-
	MONTH	81.1	59	16	11	14.2	7.3	10.8	-	0.6	28	0	201	-	57	-	-3.1	28	5	-	-	89.1	-	2.7	-	15
Dunsany (Grange) Co. Meath	1-10	37.2	-	9	7	15.3	9.6	12.4	-	4.0	8	0	80	-	29	-	2.0	8	0	-	-	29.6	-	-	-	-
	11-20	0.0	-	0	0	13.5	7.4	10.5	-	4.8	17	0	61	-	14	-	2.0	16	0	-	-	15.8	-	-	-	-
	21-END	10.6	-	2	2	12.0	3.6	7.8	-	-0.7	23	1	41	-	6	-	-2.2	23	3	-	-	28.4	-	-	-	-
	MONTH	47.8	58	11	9	13.5	6.8	10.1	-	-0.7	23	1	182	-	49	-	-2.2	23	3	-	-	73.8	-	-	-	-
Clones Co. Monaghan	1-10	51.6	-	10	9	15.0	9.2	12.1	-	4.3	8	0	77	-	26	-	0.7	8	0	12.6	-	26.2	-	6.9	7	-
	11-20	0.2	-	1	0	13.6	8.3	11.0	-	7.0	16	0	66	-	16	-	3.2	13	0	13.1	-	15.5	-	1.4	0	-
	21-END	1.3	-	2	0	11.7	4.5	8.1	-	-0.1	29	1	44	-	7	-	-2.7	29	2	9.7	-	21.2	-	2.3	0	-
	MONTH	53.1	60	13	9	13.4	7.2	10.3	+0.4	-0.1	29	1	186	100	48	94	-2.7	29	2	11.8	+1.2	62.9	83	3.5	7	17
Birr Co. Offaly	1-10	54.0	-	9	9	15.6	9.5	12.5	-	4.6	8	0	81	-	30	-	0.7	8	0	12.8	-	29.7	-	5.1	4	-
	11-20	0.0	-	0	0	13.9	7.9	10.9	-	2.2	15	0	65	-	17	-	-0.8	16	2	12.3	-	21.4	-	1.3	0	-
	21-END	5.9	-	2	2	11.7	4.7	8.2	-	0.5	26	0	45	-	8	-	-3.7	26	5	9.9	-	14.6	-	1.2	0	-
	MONTH	59.9	75	11	11	13.7	7.3	10.5	+0.1	0.5	26	0	191	96	55	90	-3.7	26	7	11.7	+0.6	65.7	76	2.5	4	16

TABLE 1 (CONTINUED)

OCTOBER 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 (Knockavilla) Co. Tipperary	1-10	44.6	-	7	6	15.5	9.4	12.5	-	3.4	8	0	81	-	29	-	-3.4	8	2	-	-	-	-	-	-	-	-	-	-	-	-		
	11-20	0.0	-	0	0	14.0	7.7	10.8	-	5.2	16	0	64	-	17	-	-1.1	17	2	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	2.7	-	1	1	11.6	4.2	7.9	-	0.7	29	0	42	-	6	-	-4.0	29	8	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	47.3	-	8	7	13.6	7.0	10.3	-	0.7	29	0	187	-	52	-	-4.0	29	12	-	-	-	-	-	-	-	-	-	-	-	-		
Dungarvan (Carriglea) Co. Waterford	1-10	84.4	-	9	8	15.8	9.8	12.8	-	3.4	8	0	84	-	32	-	2.3	8	0	-	-	27.8	-	3.6	-	-	-	-	-	-	-		
	11-20	0.2	-	0	0	14.7	9.0	11.8	-	4.4	15	0	74	-	23	-	4.1	15	0	-	-	12.5	-	0.9	-	-	-	-	-	-	-		
	21-END	0.7	-	2	0	12.8	6.8	9.8	-	3.7	29	0	60	-	11	-	2.0	29	0	-	-	20.0	-	1.2	-	-	-	-	-	-	-		
	MONTH	85.3	81	11	8	14.4	8.5	11.4	-	3.4	8	0	218	-	67	-	2.0	29	0	-	-	60.3	-	1.9	-	-	-	-	-	-	-	-	
Mullingar Co. Westmeath	1-10	57.5	-	9	9	15.0	8.7	11.9	-	3.0	8	0	75	-	25	-	1.8	8	0	12.4	-	29.2	-	5.8	3	-	-	-	-	-	-	-	
	11-20	0.0	-	0	0	13.0	7.7	10.4	-	5.7	18	0	60	-	12	-	4.6	15	0	11.7	-	14.1	-	1.3	0	-	-	-	-	-	-	-	
	21-END	9.4	-	2	2	12.0	4.4	8.2	-	1.1	29	0	45	-	7	-	-1.4	29	4	9.4	-	31.7	-	1.5	0	-	-	-	-	-	-	-	
	MONTH	66.9	74	11	11	13.3	6.9	10.1	+0.1	1.1	29	0	179	96	44	83	-1.4	29	4	11.2	+0.4	75.0	87	2.8	3	13	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	45.5	-	9	7	14.9	10.3	12.6	-	3.9	8	0	82	-	30	-	-2.2	8	1	-	-	25.1	-	8.0	-	-	-	-	-	-	-	-	
	11-20	0.0	-	0	0	13.6	9.1	11.3	-	7.5	16	0	69	-	17	-	2.2	16	0	-	-	N/A	-	1.6	-	-	-	-	-	-	-	-	
	21-END	0.4	-	1	0	11.9	7.0	9.5	-	4.8	29	0	56	-	7	-	-1.4	21	1	-	-	17.7	-	2.2	-	-	-	-	-	-	-	-	
	MONTH	45.9	43	10	7	13.4	8.7	11.1	-	3.9	8	0	207	-	53	-	-2.2	8	2	-	-	N/A	-	3.9	-	N/A	-	-	-	-	-	-	
Clonroche Co. Wexford	1-10	57.1	-	8	6	15.0	9.3	12.1	-	3.5	8	0	78	-	27	-	-1.5	8	3	-	-	28.7	-	2.9	-	-	-	-	-	-	-	-	
	11-20	0.0	-	0	0	13.8	8.3	11.0	-	6.6	12	0	66	-	15	-	-0.7	14	3	-	-	12.7	-	0.6	-	-	-	-	-	-	-	-	
	21-END	1.4	-	1	1	12.1	5.3	8.7	-	3.0	26	0	48	-	6	-	-2.1	26	6	-	-	19.7	-	0.7	-	-	-	-	-	-	-	-	
	MONTH	58.5	61	9	7	13.6	7.5	10.6	-	3.0	26	0	192	-	48	-	-2.1	26	12	-	-	61.1	-	1.4	-	-	-	-	-	-	-	-	
Johnstown Castle Co. Wexford	1-10	45.0	-	9	7	14.8	10.5	12.7	-	5.0	8	0	83	-	29	-	4.3	8	0	-	-	26.9	-	5.9	-	-	-	-	-	-	-	-	
	11-20	0.0	-	0	0	13.7	9.6	11.6	-	8.1	12	0	72	-	18	-	1.9	15	0	-	-	12.5	-	1.5	-	-	-	-	-	-	-	-	
	21-END	1.7	-	1	1	11.8	7.4	9.6	-	6.0	29	0	57	-	6	-	-1.1	23	3	-	-	20.3	-	2.2	-	-	-	-	-	-	-	-	
	MONTH	46.7	45	10	8	13.4	9.1	11.3	-	5.0	8	0	212	-	54	-	-1.1	23	3	-	-	59.7	-	3.2	-	-	-	-	-	-	-	-	-
Rosslare Co. Wexford	1-10	40.6	-	8	6	15.4	11.0	13.2	-	5.2	8	0	88	-	34	-	1.9	8	0	13.2	-	28.1	-	7.5	8	-	-	-	-	-	-	-	
	11-20	0.2	-	1	0	13.9	11.4	12.7	-	9.0	18	0	83	-	27	-	3.8	14	0	12.9	-	9.5	-	2.5	0	-	-	-	-	-	-	-	-
	21-END	0.6	-	1	0	12.6	9.7	11.1	-	8.1	31	0	74	-	14	-	5.4	21	0	11.1	-	21.3	-	4.5	1	-	-	-	-	-	-	-	
	MONTH	41.4	46	10	6	13.9	10.7	12.3	+0.8	5.2	8	0	244	105	75	106	1.9	8	0	12.4	+0.2	58.9	54	4.9	9	24	-	-	-	-	-	-	

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TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		MJ/m ²
Malin Head Co. Donegal	1-10	65.54
	11-20	51.06
	21-end	49.27
	Month	165.87
Dublin Airport Co. Dublin	1-10	61.05
	11-20	46.48
	21-end	53.56
	Month	161.09
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	59.28
	11-20	60.02
	21-end	62.94
	Month	182.24
Kilkenny Co. Kilkenny	1-10	67.17
	11-20	46.96
	21-end	43.81
	Month	157.94
Belmullet Co. Mayo	1-10	61.96
	11-20	44.80
	21-end	55.8
	Month	162.64
Clones Co. Monaghan	1-10	57.36
	11-20	33.82*
	21-end	46.22
	Month	137.20
Birr Co. Offaly	1-10	70.88
	11-20	42.26*
	21-end	43.75
	Month	156.89

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	8.7	-	0	27
	11-20	8.7	9	9	-
	21-end	7.4	3	12	-
	Month	24.8	-	-	-
Kinsealy Co. Dublin	1-10	13.5	3	18	-
	11-20	8.1	8	26	-
	21-end	7.4	-	26	0
	Month	29.0	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	9.3	-	0	78
	11-20	6.4	6	6	-
	21-end	10.6	11	17	-
	Month	26.3	-	-	-
Ballinamore Co. Leitrim	1-10	1.7	-	0	40
	11-20	1.8	1	1	-
	21-end	6.7	6	7	-
	Month	10.2	-	-	-
Glenamoy Co. Mayo	1-10	-1.1	-	0	74
	11-20	7.5	7	7	-
	21-end	4.1	-	4	3
	Month	10.5	-	-	-
Johnstown Castle Co. Wexford	1-10	17.2	-	0	28
	11-20	5.4	5	5	-
	21-end	10.2	9	14	-
	Month	32.8	-	-	-

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	13.6	12.5	11.7	+0.5
	11-20	12.3	11.4	10.6	+0.3	75	72
	21-end	10.7	9.2	8.8	+1.0	103	99
Mineral	1-10	13.9	12.3	11.7	+0.2	44	48
	11-20	12.6	11.4	10.6	+0.1	83	79
	21-end	11.4	9.1	8.3	+0.6	120	114

Notes on the tables in January issue

* 2ND decade 9 days only

Table 1: Rainfall Data of the Summer of 1985 compared to the Summers of 1958 and 1980.

	Rainfall				1985 Rainfall as % of				No. of Rain Days				No. of Wet Days				No. of Consecutive Dry Days*		
	1958	'80	'85	Aver -age	1958	'80	'85	Aver -age	1958	'80	'85	Aver -age	1958	'80	'85	Aver -age	3 days	4 days	5 days
Malin Head (Extreme North)	441	461	663	398	150	144			99	98	116	95	73	81	93	69	(Aver-age) 13 16 11 (23)	(Aver-age) 6 10 4 (16)	(Aver-age) 3 6 2 (11)
Belmullet (Extreme West)	573	412	649	403	113	158			109	100	106	95	81	83	82	70	9 21 15 (23)	5 14 10 (16)	1 0 4 (11)
Claremorris (West)	629	484	713	412	113	147			120	108	103	92	94	83	89	68	10 18 9 (25)	5 13 5 (18)	1 9 4 (13)
Galway (West)	-	480	589	(430)	-	123			-	101	99	-	-	78	88	-	20 15 (28)	14 8 (20)	10 5 (16)
Birr (West-Midlands)	541	349	473	337	87	136			103	91	94	85	85	67	83	61	14 25 16 (31)	9 18 9 (29)	5 12 4 (17)
Shannon Airport (Mid-West)	452	443	491	357	109	111			113	101	94	86	87	76	79	62	9 17 20 (30)	4 12 9 (22)	1 7 5 (16)
Cahirciveen (South-West)	707	670	701	473	99	105			114	106	105	93	92	77	81	70	7 18 17 (26)	3 13 8 (19)	0 9 4 (14)
Roches Point (South)	649	392	399	344	61	102			101	77	79	72	66	59	63	50	12 27 25 (41)	7 18 16 (32)	3 12 10 (25)
Cork Airport (South)	-	476	463	429	-	97			-	86	88	77	-	59	68	56	22 16 (36)	16 8 (28)	6 3 (21)
Rosslare (South-East)	544	322	342	319	63	106			98	85	78	69	75	62	55	50	14 30 30 (44)	5 21 21 (35)	1 14 15 (28)
Kilkenny (South-Midlands)	588	670	404	317	69	60			111	80	90	75	78	62	71	63	9 28 19 (37)	5 19 9 (28)	2 12 3 (22)
Casement Aerodrome (Mid-East)	594	332	410	300	69	123			108	84	89	78	85	56	70	56	8 27 24 (36)	3 19 13 (27)	2 12 9 (21)
Dublin Airport (East)	651	355	419	318	64	118			99	85	91	75	76	64	66	54	14 21 20 (38)	6 12 10 (29)	3 6 3 (22)
Mullingar (Midlands)	583	413	569	371	98	138			110	93	97	91	83	71	83	67	9 23 10 (33)	5 17 8 (22)	1 11 1 (16)
Clones (North-Midlands)	505	385	508	377	101	132			107	99	106	90	85	75	86	68	12 17 10 (27)	6 11 4 (20)	3 7 3 (14)

THE RAINFALL CLIMATE OF MAY TO SEPTEMBER 1985
(some comparisons with 1958 and 1980)

* not necessarily mutually exclusive e.g. 7 consecutive dry days are counted as three 5-day spells.
Dry Days: rainfall in spell does not exceed 0.1mm.