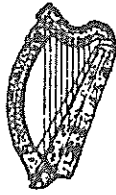


METEOROLOGICAL SERVICE



SEPTEMBER 1987

AGROMETEOROLOGICAL BULLETIN

The Weather of September

A strong south to southwest airflow and frontal rainbelts over Ireland from 1st to 4th were associated with deep depressions over eastern parts of the North Atlantic. As the depression system filled winds eased on 5th/6th although rain from frontal waves continued over southern areas and there were showers elsewhere. With rising pressure there were improved conditions on 7th/8th. Further rain in a southwest to west airflow occurred on 9th/10th. A deepening depression moving north from the Azores towards Iceland induced very mild air over Ireland with spells of heavy rain on 11th/12th. This was followed by a southwest to west airflow until 14th. As high pressure over Europe and the Azores extended towards Iceland rainfall systems over the country weakened. High pressure was centred over Ireland on 18th. Atlantic troughs however, and active frontal rainbelts in a southwesterly airflow again affected the country with widespread heavy rain until 23rd. A northwesterly airflow with showers on 24th preceded a more northerly tracking high pressure cell which became the dominant influence to the end of the month. As this high drifted towards Europe a southerly airflow developed on the 30th with some rain in western areas.

Precipitation:

Amounts were above normal almost everywhere, varying from 91% of normal at Fermoy, Dunsany and JFK Park to 159% at Valentia. Wettest days were 3rd/4th, 11th/12th and 19th to 21st.

Temperature:

Mean air temperature tended to be below normal, and ranged from 0.7°C below at Birr and Casement to 0.0°C above at Shannon Airport. The negative deviations were mainly due to cooler nights compared to normal. Air frost occurred at Birr on 26th.

Sunshine and Radiation:

Sunshine amounts were well above normal, ranging from 139% of normal at Mullingar to 106% at Claremorris. Global radiation ranged from 83% of normal at Dublin Airport to 92% of normal at Birr.

Wind:

Strong winds with gale gusts were widespread on 3rd to 5th, intermittently from 9th to 14th, and 21st

Summary:

Bright, relatively cool but generally wet.

TABLE 1

SEPTEMBER 1987

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	20.6	-	6	6	17.6	10.4	14.0	-	6.3	8	0	96	-	42	-	3.2	2	0	-	-	54.0	-	3.5	-	-
	11-20	46.6	-	6	6	17.3	8.8	13.1	-	5.0	19	0	87	-	35	-	2.2	19	0	-	-	40.9	-	1.1	-	-
	21-END	9.6	-	3	2	14.8	5.3	10.0	-	1.0	27	0	59	-	19	-	-2.5	27	5	-	-	47.8	-	2.5	-	-
	MONTH	76.8	101	15	14	16.6	8.2	12.4	-	1.0	27	0	242	-	96	-	-2.5	27	5	-	-	142.7	-	2.4	-	40
Shannon Airport Co. Clare	1-10	49.9	-	7	7	18.3	11.8	15.1	-	10.0	8	0	107	-	51	-	2.4	8	0	15.1	-	46.1	-	5.0	2	-
	11-20	37.7	-	7	5	18.0	10.6	14.3	-	7.7	16	0	99	-	44	-	2.5	16	0	14.1	-	42.4	-	4.1	2	-
	21-END	14.7	-	5	4	15.5	7.9	11.7	-	3.7	26	0	73	-	24	-	-0.9	26	2	12.2	-	45.3	-	3.5	2	-
	MONTH	102.3	114	19	16	17.3	10.1	13.7	+0.0	3.7	26	0	279	95	119	95	-0.9	26	2	13.8	-0.8	133.8	119	4.2	6	55
Cork Airport Co. Cork	1-10	36.0	-	6	5	17.2	10.6	13.9	-	8.9	8	0	95	-	39	-	4.0	2	0	15.0	-	53.5	-	6.4	4	-
	11-20	72.4	-	8	8	16.4	9.9	13.1	-	7.6	13	0	87	-	33	-	3.3	13	0	14.1	-	36.7	-	5.9	3	-
	21-END	10.5	-	5	3	14.4	6.6	10.5	-	2.8	26	0	62	-	16	-	-0.3	27	1	12.3	-	57.9	-	5.3	2	-
	MONTH	118.9	103	19	16	16.0	9.0	12.5	-0.4	2.8	26	0	244	92	89	90	-0.3	27	1	13.8	+0.2	148.1	123	5.8	9	47
Fermoy (Coolnakilla) Co. Cork	1-10	29.3	-	8	6	16.4	10.0	13.2	-	7.7	8	0	88	-	33	-	2.1	8	0	-	-	52.7	-	4.0	-	-
	11-20	78.2	-	8	7	16.1	8.7	12.4	-	6.7	19	0	80	-	28	-	3.8	13	0	-	-	38.5	-	3.6	-	-
	21-END	12.4	-	6	3	13.5	6.6	10.1	-	2.3	26	0	57	-	14	-	-2.2	28	4	-	-	52.0	-	3.0	-	-
	MONTH	119.9	-	22	16	15.3	8.4	11.9	-	2.3	26	0	225	-	75	-	-2.2	28	4	-	-	143.2	-	3.5	-	44
Fermoy (Moore Park) Co. Cork	1-10	24.1	-	8	5	17.8	9.5	13.7	-	4.7	8	0	93	-	40	-	0.2	8	0	-	-	51.8	-	N/A	-	-
	11-20	55.4	-	8	8	17.8	7.4	12.6	-	3.5	13	0	82	-	33	-	-0.6	18	2	-	-	37.6	-	N/A	-	-
	21-END	4.1	-	2	2	15.1	4.7	9.9	-	-0.9	28	1	59	-	20	-	-5.9	28	7	-	-	52.5	-	N/A	-	-
	MONTH	83.6	91	18	15	16.9	7.2	12.0	-	-0.9	28	1	234	-	93	-	-5.9	28	9	-	-	141.9	-	N/A	-	N/A
Roches Point Co. Cork	1-10	30.1	-	6	3	17.4	11.6	14.5	-	9.1	8	0	101	-	45	-	3.0	7	0	15.4	-	53.3	-	6.7	4	-
	11-20	61.8	-	7	5	16.7	11.2	13.9	-	8.8	18	0	95	-	40	-	3.4	13	0	14.5	-	39.8	-	6.2	4	-
	21-END	17.8	-	3	3	14.7	8.3	11.5	-	4.7	28	0	71	-	21	-	-0.9	28	2	12.8	-	61.4	-	6.2	4	-
	MONTH	109.7	122	16	11	16.2	10.4	13.3	-0.4	4.7	28	0	268	92	107	90	-0.9	28	2	14.2	-0.3	154.5	121	6.4	12	56
Glencolumbkille Co. Donegal	1-10	56.4	-	10	7	16.5	10.7	13.6	-	8.3	10	0	92	-	36	-	2.3	2	0	-	-	N/A	-	4.4	-	-
	11-20	63.6	-	9	8	15.7	9.1	12.4	-	7.5	19	0	80	-	26	-	1.2	11	0	-	-	N/A	-	4.0	-	-
	21-END	37.1	-	7	6	13.6	7.4	10.5	-	4.8	29	0	61	-	14	-	-0.2	28	1	-	-	N/A	-	3.3	-	-
	MONTH	157.1	-	26	21	15.2	9.1	12.1	-	4.8	29	0	232	-	77	-	-0.2	28	1	-	-	N/A	-	3.9	-	N/A

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

SEPTEMBER 1987

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													
Glenties Co. Donegal	1-10	59.6	-	9	7	16.4	9.3	12.9	-	5.6	2	0	85	-	32	-	1.5	2	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	62.1	-	8	7	15.5	8.7	12.1	-	5.9	16	0	77	-	25	-	2.2	11	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	55.4	-	7	6	14.0	6.5	10.3	-	1.8	26	0	60	-	16	-	-1.8	26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	177.1	122	24	20	15.3	8.2	11.8	-	1.8	26	0	222	-	73	-	-1.9	26	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	33.5	-	8	8	16.7	11.0	13.8	-	8.0	2	0	94	-	39	-	5.6	2	0	14.1	-	53.6	-	9.5	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	30.3	-	8	6	15.7	10.0	12.9	-	7.9	19	0	85	-	30	-	5.0	19	0	12.5	-	46.1	-	8.3	7	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	29.3	-	6	4	14.3	9.4	11.3	-	6.5	28	0	69	-	18	-	3.2	30	0	11.2	-	43.1	-	7.8	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	93.1	92	22	18	15.6	9.8	12.7	-0.3	6.5	28	0	248	92	87	89	3.2	30	0	12.6	-0.5	142.8	129	8.5	21	64	-	-	-	-	-	-	-	-	-	-	-	-	-
Casement Aerodrome Co. Dublin	1-10	16.8	-	6	5	17.7	10.1	13.9	-	7.7	8	0	95	-	40	-	3.0	2	0	12.8	-	56.2	-	7.5	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	49.6	-	8	6	17.2	9.2	13.2	-	5.2	19	0	88	-	35	-	3.3	19	0	12.3	-	45.8	-	6.3	4	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	20.0	-	4	3	14.6	5.6	10.1	-	1.3	26	0	59	-	17	-	-1.2	29	4	10.4	-	49.1	-	5.5	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	86.4	125	18	14	16.5	8.3	12.4	-0.6	1.3	26	0	242	89	93	84	-1.2	29	4	11.8	-	151.1	122	6.4	11	57	-	-	-	-	-	-	-	-	-	-	-	-	-
Dublin Airport Co. Dublin	1-10	14.7	-	7	2	17.6	11.5	14.6	-	8.0	8	0	102	-	46	-	5.0	2	0	15.3	-	60.4	-	5.1	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	40.1	-	6	5	17.3	10.3	13.8	-	8.0	18	0	94	-	39	-	5.6	19	0	13.8	-	45.2	-	4.0	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	15.5	-	4	3	14.8	6.8	10.8	-	3.4	26	0	65	-	19	-	-1.0	29	3	11.6	-	51.2	-	3.9	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	70.3	96	17	10	16.6	9.5	13.1	-0.1	3.4	26	0	260	93	104	93	-1.0	29	3	13.6	-0.4	156.8	122	4.3	5	57	-	-	-	-	-	-	-	-	-	-	-	-	-
Kinsealy Co. Dublin	1-10	15.2	-	6	3	18.2	11.0	14.6	-	7.5	2	0	102	-	47	-	0.6	2	0	-	-	62.2	-	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	42.7	-	6	4	17.0	10.2	13.6	-	6.4	19	0	92	-	37	-	1.0	19	0	-	-	44.4	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	9.9	-	3	2	15.1	6.4	10.8	-	1.1	29	0	65	-	22	-	-2.9	29	5	-	-	50.7	-	3.2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	67.8	95	15	9	16.8	9.2	13.0	-	1.1	29	0	259	-	107	-	-2.9	29	5	-	-	157.3	-	3.5	-	54	-	-	-	-	-	-	-	-	-	-	-	-	
Galway Co. Galway	1-10	61.5	-	9	8	17.2	11.1	14.2	-	8.4	8	0	98	-	42	-	5.4	8	0	14.9	-	53.8	-	5.4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	65.4	-	7	7	16.6	10.5	13.6	-	7.1	16	0	92	-	37	-	4.3	18	0	12.7	-	44.6	-	4.4	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	23.0	-	6	4	13.5	6.7	10.1	-	0.0	27	0	62	-	18	-	0.0	27	0	10.6	-	44.1	-	3.4	1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	149.9	135	22	19	15.8	9.5	12.6	-0.7	0.0	27	0	251	-	98	-	0.0	27	0	12.7	-	142.5	119	4.4	9	50	-	-	-	-	-	-	-	-	-	-	-	-	
Killarney (Muckross House) Co. Kerry	1-10	73.3	-	7	6	17.3	11.4	14.4	-	7.5	8	0	100	-	44	-	5.0	9	0	-	-	45.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	11-20	59.7	-	8	8	17.4	10.6	14.0	-	6.2	16	0	96	-	41	-	4.1	13	0	-	-	31.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	16.0	-	6	5	14.8	7.7	11.2	-	2.4	26	0	69	-	23	-	-0.3	26	1	-	-	36.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	149.0	110	21	19	16.5	9.9	13.2	-	2.4	26	0	265	-	109	-	-0.3	26	1	-	-	113.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

SEPTEMBER 1987

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	65.4	-	8	7	17.5	11.1	14.3	-	8.1	8	0	99	-	44	-	3.3	8	0	15.9	-	48.2	-	5.9	3	-
	11-20	61.4	-	9	8	17.3	10.9	14.1	-	7.4	16	0	97	-	42	-	4.6	16	0	14.8	-	36.5	-	4.7	2	-
	21-END	77.0	-	5	4	15.5	8.0	11.7	-	3.6	27	0	74	-	25	-	-0.4	27	2	13.1	-	46.2	-	4.6	2	-
	MONTH	203.8	159	22	19	16.8	10.0	13.4	-0.4	3.6	27	0	270	92	111	91	-0.4	27	2	14.6	+0.1	130.9	118	5.1	7	49
Ardfert (Lisachane) Co. Kerry	1-10	50.1	-	8	7	17.7	10.9	14.3	-	7.2	2	0	99	-	44	-	4.5	8	0	-	-	51.6	-	-	-	-
	11-20	59.7	-	7	5	17.8	10.2	14.0	-	7.4	18	0	96	-	42	-	2.4	16	0	-	-	44.2	-	-	-	-
	21-END	38.9	-	5	4	15.2	7.3	11.3	-	0.8	26	0	70	-	23	-	-3.0	26	2	-	-	41.8	-	-	-	-
	MONTH	148.7	-	20	16	16.9	9.5	13.2	-	0.8	26	0	265	-	109	-	-3.0	26	2	-	-	137.6	-	-	-	-
Lullymore Co. Kildare	1-10	32.0	-	8	6	17.2	9.6	13.4	-	4.8	8	0	90	-	37	-	-0.8	2	2	-	-	51.7	-	3.9	-	-
	11-20	39.6	-	8	7	16.9	7.6	12.2	-	4.2	16	0	78	-	29	-	-1.9	16	2	-	-	41.4	-	3.3	-	-
	21-END	7.7	-	5	2	14.4	4.4	9.4	-	-0.4	29	1	55	-	17	-	-7.1	26	6	-	-	46.9	-	2.6	-	-
	MONTH	79.3	92	21	15	16.2	7.2	11.7	-	-0.4	29	1	223	-	83	-	-7.1	26	10	-	-	140.0	-	3.3	-	34
Kilkenny Co. Kilkenny	1-10	28.9	-	6	4	18.7	9.0	13.8	-	5.5	2	0	94	-	41	-	1.6	8	0	15.1	-	53.0	-	3.6	2	-
	11-20	40.6	-	7	6	17.7	7.4	12.6	-	4.4	13	0	82	-	33	-	-0.8	13	1	13.7	-	40.1	-	2.4	3	-
	21-END	15.7	-	3	2	15.5	4.4	10.0	-	0.5	27	0	59	-	19	-	-4.5	27	4	12.0	-	50.9	-	2.6	0	-
	MONTH	85.2	104	16	12	17.3	6.9	12.1	-0.7	0.5	27	0	235	88	93	82	-4.5	27	5	13.6	-0.5	144.0	126	2.9	5	43
Mooncoin (Silverspring) Co. Kilkenny	1-10	41.1	-	9	6	18.2	8.7	13.5	-	5.0	2	0	91	-	40	-	-0.4	8	2	-	-	50.8	-	-	-	-
	11-20	62.9	-	7	6	17.7	8.4	13.0	-	4.5	19	0	86	-	35	-	-1.3	13	1	-	-	37.7	-	-	-	-
	21-END	18.5	-	3	2	15.2	5.3	10.2	-	-0.8	29	1	61	-	21	-	-4.8	27	5	-	-	58.6	-	-	-	-
	MONTH	122.5	132	19	14	17.0	7.5	12.2	-	-0.8	29	1	238	-	96	-	-4.8	27	8	-	-	147.1	-	-	-	-
Ballinamore Co. Leitrim	1-10	28.5	-	8	7	17.0	8.6	12.8	-	3.9	2	0	84	-	33	-	0.1	10	0	-	-	38.9	-	2.7	-	-
	11-20	50.7	-	6	6	16.4	6.8	11.6	-	2.6	16	0	73	-	25	-	-1.1	16	1	-	-	37.9	-	1.9	-	-
	21-END	24.9	-	6	3	14.3	4.8	9.5	-	-1.1	29	1	55	-	16	-	-5.0	29	4	-	-	45.1	-	1.9	-	-
	MONTH	104.1	99	20	16	15.9	6.7	11.3	-	-1.1	29	1	212	-	74	-	-5.0	29	5	-	-	121.9	-	2.2	-	33
Ardee (Boharnamoe) Co. Louth	1-10	14.2	-	6	6	17.9	9.8	13.8	-	4.8	8	0	94	-	41	-	N/A	N/A	-	-	-	-	-	-	-	-
	11-20	50.5	-	5	3	17.5	7.6	12.5	-	3.7	19	0	81	-	31	-	N/A	N/A	-	-	-	-	-	-	-	-
	21-END	8.0	-	3	3	15.2	5.3	10.3	-	-0.2	29	1	61	-	21	-	N/A	N/A	-	-	-	-	-	-	-	-
	MONTH	72.7	92	14	12	16.8	7.5	12.2	-	-0.2	29	1	237	-	92	-	N/A	N/A	-	-	-	-	-	-	-	-

TABLE 1 (CONTINUED)

SEPTEMBER 1987

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
Ballinrobe (Creagh) Co. Mayo	1-10	60.9	-	9	8	18.4	9.1	13.8	-	5.4	2	0	94	-	41	-	0.7	8	0	-	-	45.3	-	5.8	-	-
	11-20	56.0	-	10	7	16.8	7.9	12.4	-	4.9	17	0	80	-	29	-	0.3	16	0	-	-	36.2	-	3.1	-	-
	21-END	41.6	-	5	4	15.4	5.7	10.5	-	1.3	29	0	63	-	18	-	-2.8	29	2	-	-	41.4	-	2.6	-	-
	MONTH	158.5	134	24	19	16.9	7.6	12.2	-	1.3	29	0	236	-	88	-	-2.8	29	2	-	-	122.9	-	3.2	-	41
Belmullet Co. Mayo	1-10	31.2	-	9	8	16.6	11.0	13.8	-	8.0	2	0	94	-	39	-	3.1	2	0	15.0	-	49.7	-	8.2	5	-
	11-20	74.0	-	8	5	16.1	11.0	13.5	-	9.0	19	0	91	-	36	-	6.2	16	0	13.7	-	50.0	-	7.0	6	-
	21-END	22.1	-	6	5	14.6	8.2	11.4	-	5.5	30	0	70	-	20	-	1.6	29	0	12.6	-	40.9	-	5.9	2	-
	MONTH	127.3	120	23	18	15.8	10.1	12.9	-0.4	5.5	30	0	256	93	94	90	1.6	29	0	13.8	-0.0	140.6	122	7.0	13	60
Claremorris Co. Mayo	1-10	51.0	-	7	5	17.2	9.0	13.1	-	6.7	8	0	87	-	34	-	2.8	8	0	14.4	-	34.4	-	4.4	2	-
	11-20	48.9	-	9	6	16.6	7.8	12.2	-	4.5	18	0	78	-	28	-	0.0	18	0	13.1	-	35.4	-	3.2	1	-
	21-END	23.5	-	6	5	14.5	5.7	10.1	-	1.0	29	0	58	-	15	-	-2.3	29	2	11.6	-	33.5	-	2.8	1	-
	MONTH	123.4	115	22	16	16.1	7.5	11.8	-0.6	1.0	29	0	224	88	77	79	-2.3	29	2	13.0	-0.3	103.3	106	3.5	4	36
Glenamoy Co. Mayo	1-10	51.7	-	9	9	16.8	9.7	13.3	-	6.0	2	0	89	-	35	-	3.1	2	0	-	-	48.3	-	4.6	-	-
	11-20	72.6	-	8	8	16.1	8.9	12.5	-	6.2	19	0	81	-	28	-	4.6	19	0	-	-	44.9	-	3.9	-	-
	21-END	29.3	-	6	6	13.8	7.5	10.6	-	3.4	26	0	63	-	15	-	1.3	26	0	-	-	39.2	-	3.0	-	-
	MONTH	153.6	119	23	23	15.6	8.7	12.1	-	3.4	26	0	232	-	78	-	1.3	26	0	-	-	132.4	-	3.9	-	37
Dunsany (Grange) Co. Meath	1-10	18.5	-	7	5	17.1	10.0	13.6	-	5.9	8	0	92	-	38	-	0.9	8	0	-	-	56.8	-	-	-	-
	11-20	44.7	-	7	6	16.6	8.3	12.4	-	5.4	16	0	80	-	29	-	0.8	16	0	-	-	43.8	-	-	-	-
	21-END	10.5	-	4	3	14.4	5.2	9.8	-	0.5	29	0	58	-	18	-	-4.8	26	4	-	-	49.4	-	-	-	-
	MONTH	73.7	91	18	14	16.0	7.8	11.9	-	0.5	29	0	229	-	84	-	-4.8	26	4	-	-	150.0	-	-	-	-
Clones Co. Monaghan	1-10	19.3	-	7	4	17.1	9.4	13.3	-	6.4	8	0	89	-	35	-	0.2	8	0	14.3	-	44.5	-	3.8	2	-
	11-20	46.5	-	7	6	16.4	8.2	12.3	-	5.1	16	0	79	-	28	-	0.7	19	0	12.8	-	42.6	-	2.5	1	-
	21-END	22.3	-	5	3	14.3	5.8	10.0	-	2.5	26	0	57	-	15	-	-1.9	26	3	11.1	-	46.9	-	2.5	0	-
	MONTH	88.1	104	19	13	15.9	7.8	11.8	-0.5	2.5	26	0	224	89	78	82	-1.9	26	3	12.7	-0.6	134.0	137	2.9	3	40
Birr Co. Offaly	1-10	29.3	-	8	8	17.4	9.9	13.6	-	5.9	2	0	92	-	38	-	2.3	2	0	11.0	-	45.2	-	4.1	3	-
	11-20	51.5	-	8	6	17.6	8.9	13.3	-	5.6	16	0	89	-	36	-	2.3	16	0	12.2	-	39.3	-	3.3	3	-
	21-END	14.2	-	4	1	14.9	5.4	10.1	-	-1.0	26	1	60	-	18	-	-4.4	26	3	11.2	-	45.3	-	2.9	1	-
	MONTH	95.0	120	20	15	16.6	8.0	12.3	-0.7	-1.0	26	1	241	90	92	84	-4.4	26	3	11.5	-2.5	129.8	117	3.4	7	44

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m ²
Malin Head Co. Donegal	1-10	131.61
	11-20	103.61
	21-end	92.49
	Month	312.73
Dublin Airport Co. Dublin	1-10	127.57
	11-20	100.43
	21-end	90.14
	Month	318.17
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	135.55
	11-20	103.28
	21-end	104.78
	Month	343.61
Kilkenny Co. Kilkenny	1-10	139.47
	11-20	106.61
	21-end	100.85
	Month	346.93
Belmullet Co. Mayo	1-10	121.77
	11-20	103.57
	21-end	87.39
	Month	312.73
Clones Co. Monaghan	1-10	121.57
	11-20	97.60
	21-end	94.63
	Month	313.80
Birr Co. Offaly	1-10	126.89
	11-20	104.28
	21-end	98.94
	Month	330.11

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	1-10	22.3	-34	5	-
	11-20	16.5	-30	0	-
	21-end	7.0	-2	0	-
	Month				
Kinsealy Co. Dublin	1-10	19.0	-17	30	-
	11-20	16.9	-26	4	-
	21-end	10.5	+1	5	-
	Month				
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	12.2	-55	0	-
	11-20	25.9	-33	0	-
	21-end	26.3	-38	0	-
	Month				
Ballinamore Co. Leitrim	1-10	15.8	-12	0	-
	11-20	Overflow	-	0	-
	21-end	Overflow	-	0	-
	Month				
Glenamoy Co. Mayo	1-10	19.7	-32	0	-
	11-20	15.4	-57	0	-
	21-end	12.3	-15	0	-
	Month				
Johnstown Castle Co. Wexford	1-10	16.5	-19	29	-
	11-20	22.3	-23	6	-
	21-end	12.1	-4	2	-
	Month				

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	16.16	11.30	12.68	0.25
11-20	14.88		9.91	10.65	0.29	76.1	68.5
21-end	13.31		11.16	8.52	1.09	72.2	66.5
Mineral	1-10	17.25	11.11	12.07	0.16	57.4	50.8
	11-20	15.33	9.75	10.87	-0.02	65.8	61.2
	21-end	14.35	11.20	8.58	0.58	66.5	60.6

Notes on the tables in January issue

special topic

SUMMER (JUNE - AUGUST) WEATHER INDEX (POULTER*)

VALUE	Cahirciveen Valentia obs..	Birr	Dublin Phoenix park	Malin Head
Minimum	281 (1985)	239 (1912)	278 (1986)	281 (1954)
Average	361	329	344	346
Maximum	447 (1955)	410 (1887)	435 (1887)	414 (1968)
Year	<hr/>			
1984	383	365	376	359
1985	281	249	291	290
1986	353	262	278	326
1987	357	321	304	314

see agrometeorological bulletin , September 1986

NOTE: Based on the Poulter Index the 1987 summer (June - August) in summary proved to be near average at Cahirciveen and Birr but well below average at Phoenix Park and Malin Head. This at first sight seems surprising especially at Phoenix Park. In fact the summer Index at the Phoenix Park and Malin Head ranked 8th and 9th lowest since records became available in 1892 and 1915 respectively.

Cahirciveen:

After a relatively cool (0.5°C below normal), wet (160% of normal precipitation) and dull (65% of normal sunshine) June both July and August were much improved being fairly dry (67%) with near normal (+0.4°C) temperature and sunshine (102%).

Birr:

The main factors reducing the index were low sunshine throughout particularly in June (48%) and relatively low temperature also in June (-0.8°C).

Phoenix Park :

The main reasons for the very low index were low temperature (-1.1°C) and high rainfall (200%) in June, low sunshine amounts (82%) and a relatively wet spell (120%) in August.

Malin Head:

In addition to low temperature (-1.4°C) during June, July was particularly wet (140%) and dull (63%) and August was dull (75%) especially during the second and third week.