



## AGROMETEOROLOGICAL BULLETIN

### The Weather of August 1990

#### Summary

- 1st-8th : High pressure interrupted by rain troughs and showers on 4th/5th  
9th-17th : Troughs in a southwest airflow later becoming strong westerly  
18th-28th : Humid southwest airflow  
29th-end : Further troughs from west

#### Meteorological Situation

The month opened with Ireland under the influence of high pressure centred to the east of the country. This high gave way to Atlantic troughs on the 4th and to a fresh northwest airflow on 5th. Subsequently high pressure from the Atlantic extended eastwards and dominated to 8th although cloudy conditions and troughs continued to affect northwestern areas. As the high slowly receded southwards, a southwesterly airflow set in and troughs affected the country.

A more active frontal system crossed the country on 11th and a westerly airflow with embedded fronts set in on 12th giving rain and showers to 14th. A low centre passed over northern areas on 15th and as its associated fronts cleared the country, showers in a fresh to strong northwesterly airflow set in from 15th to 17th.

After this the Azores high settled along an axis south of Ireland and the airflow backed to the southwest. This led to the onset of warm humid conditions and increasingly complex troughs, particularly between 21st and 25th; thundery activity occurred on 24th. Northwest winds set in on 29th and the month ended with further troughs from the west. At the end of the month a low centre moved southeastwards towards Biscay.

#### Temperature

Mean air temperature was well above normal everywhere. Values varied from 2.0°C above normal at Kilkenny and Dublin Airport to 0.9°C above at Belmullet. The high night-time values in the northwest and high daytime values in the southeast contributed most to the anomalies.

#### Sunshine and Radiation

Bright sunshine hours were below to well below normal except in the south-east. Values varied from 38% of normal at Belmullet (dullest August on record) to 119% at Rosslare (brightest since 1976). Global radiation was only 85% of average at Cahirciveen but 105% at Kilkenny.

#### Precipitation

Precipitation was below to near normal in most areas but it was well below in the extreme south and east and above normal in the north. Amounts varied from 42% of normal at Rosslare to 119% at Ballinamore. Driest period was during the first ten days except in the north where it was wet throughout the month. Soil moisture deficits at the end of the month varied from 80 mm at Johnstown Castle to 0 mm in western and northern stations.

#### Wind

Strong winds with gale gusts occurred on 15th/16th and 28th to 30th.

TABLE 1

AUGUST 1990

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							
						MEAN MAX.	MEAN MIN.	MEAN DAILY	DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST °GRASS-MIN*	DATE	MEAN DAILY	DIFFERENCE FROM AVERAGE							
Carlow (Oak Park) Co. Carlow	1-10	0.0	-	0	0	22.4	13.0	17.7	-	9.6	6	0	133	-	77	-	8.0	6	0	-	-	63.3	-	3.5	-	-
	11-20	16.0	-	7	6	19.0	11.6	15.3	-	8.0	17	0	109	-	54	-	5.6	17	0	-	-	28.9	-	4.0	-	-
	21-END	35.3	-	6	6	22.2	13.6	17.9	-	9.4	30	0	148	-	87	-	6.5	30	0	-	-	49.1	-	3.2	-	-
	MONTH	51.3	79	13	12	21.2	12.8	17.0	-	8.0	17	0	391	-	218	-	5.6	17	0	-	-	141.3	-	3.6	-	75
Shannon Airport e Co. Clare	1-10	0.9	-	2	0	21.1	14.1	17.6	-	11.8	7	0	132	-	76	-	6.5	7	0	20.1	-	43.2	-	3.9	0	-
	11-20	22.8	-	9	6	18.3	12.7	15.5	-	10.9	16	0	111	-	55	-	6.3	17	0	16.8	-	23.0	-	4.9	2	-
	21-END	44.0	-	10	7	21.1	14.6	17.9	-	11.2	30	0	148	-	86	-	8.3	28	0	18.4	-	34.7	-	3.1	1	-
	MONTH	67.7	82	21	13	20.2	13.8	17.0	+1.7	10.9	16	0	391	110	217	125	6.3	17	0	18.4	+1.7	100.9	69	3.9	3	70
Cork Airport e Co. Cork	1-10	0.3	-	1	0	20.0	12.5	16.3	-	9.6	8	0	119	-	63	-	7.1	7	0	19.4	-	83.6	-	5.0	0	-
	11-20	23.6	-	7	7	18.1	11.7	14.9	-	8.6	17	0	105	-	50	-	6.8	17	0	16.8	-	39.3	-	5.9	3	-
	21-END	14.6	-	6	2	19.7	13.5	16.6	-	8.5	30	0	134	-	73	-	6.3	30	0	18.0	-	33.8	-	4.5	2	-
	MONTH	38.5	43	14	9	19.3	12.6	16.0	+1.4	8.5	30	0	358	109	186	126	6.3	30	0	18.1	+2.3	156.7	96	5.1	5	75
Fermoy (Coolnakilla) Co. Cork	1-10	1.6	-	3	0	19.2	11.7	15.4	-	8.8	7	0	110	-	55	-	4.5	8	0	-	-	N/A	-	N/A	-	-
	11-20	28.7	-	9	8	17.6	9.5	13.6	-	3.2	17	0	92	-	40	-	6.8	16	0	-	-	28.9	-	N/A	-	-
	21-END	24.8	-	9	4	19.7	13.2	16.4	-	8.4	30	0	132	-	71	-	5.1	28	0	-	-	N/A	-	N/A	-	-
	MONTH	55.1	-	21	12	18.9	11.5	15.2	-	3.2	17	0	334	-	166	-	4.5	8	0	-	-	N/A	-	N/A	-	N/A
Fermoy (Moore Park) Co. Cork	1-10	0.1	-	0	0	22.3	10.0	16.2	-	5.0	8	0	118	-	64	-	0.2	8	0	-	-	83.5	-	2.5	-	-
	11-20	20.0	-	8	5	18.7	11.7	15.2	-	6.0	17	0	108	-	53	-	-2.5	17	1	-	-	34.4	-	2.9	-	-
	21-END	14.6	-	7	5	21.2	13.4	17.3	-	7.0	30	0	142	-	81	-	0.0	30	1	-	-	43.5	-	2.1	-	-
	MONTH	34.7	46	15	10	20.8	11.8	16.3	-	5.0	8	0	368	-	199	-	-2.5	17	2	-	-	161.4	-	2.5	-	67
Roches Point e Co. Cork	1-10	0.0	-	0	0	20.2	13.6	16.9	-	10.9	8	0	125	-	69	-	8.7	8	0	20.2	-	91.4	-	4.3	0	-
	11-20	16.0	-	6	5	18.3	12.7	15.5	-	9.8	16	0	111	-	55	-	8.2	17	0	16.9	-	39.2	-	5.2	3	-
	21-END	20.1	-	3	2	19.6	13.8	16.7	-	10.3	30	0	136	-	74	-	7.7	28	0	18.2	-	41.2	-	3.5	3	-
	MONTH	36.1	47	9	7	19.4	13.4	16.4	+1.3	9.8	16	0	372	108	198	121	7.7	28	0	18.4	+2.0	171.8	104	4.3	6	78
Glencolumbkille Co. Donegal	1-10	21.2	-	6	6	18.1	11.2	14.7	-	9.0	7	0	103	-	47	-	6.2	7	0	-	-	N/A	-	3.0	-	-
	11-20	66.7	-	10	9	16.2	11.1	13.7	-	7.8	18	0	93	-	37	-	0.5	18	0	-	-	N/A	-	4.1	-	-
	21-END	39.0	-	11	9	18.6	12.2	15.4	-	9.5	23	0	121	-	60	-	0.3	25	0	-	-	N/A	-	2.6	-	-
	MONTH	126.9	-	27	24	17.7	11.5	14.6	-	7.8	18	0	316	-	144	-	0.3	25	0	-	-	N/A	-	3.2	-	N/A

TABLE I (CONTINUED)

AUGUST 1990

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	DEGREES DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREES DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST "GRASS-MIN"	DATE	MEAN DAILY	Difference FROM AVERAGE				
Glenties Co. Donegal	1-10	24.3	-	9	6	18.2	12.3	15.2	-	7.9	7	0	108	-	53	-	1.4	7	0	-	-	-	-
	11-20	63.3	-	9	9	16.0	10.6	13.3	-	5.9	18	0	89	-	34	-	-0.5	18	1	-	-	-	-
	21-END	28.8	-	10	9	18.7	13.0	15.9	-	9.6	30	0	126	-	65	-	3.9	30	0	-	*	-	-
	MONTH	116.4	101	28	24	17.7	12.0	14.8	-	5.9	18	0	324	-	152	-	-0.5	18	1	-	-	-	-
Malin Head Co. Donegal	1-10	27.6	-	8	7	18.2	13.6	15.9	-	12.0	7	0	115	-	59	-	9.7	4	0	17.4	-	33.4	-
	11-20	41.5	-	10	8	16.0	11.7	13.9	-	7.2	18	0	95	-	39	-	5.5	18	0	14.9	-	32.2	-
	21-END	26.3	-	10	9	18.2	13.1	15.6	-	10.9	30	0	124	-	62	-	8.8	30	0	16.3	-	24.0	-
	MONTH	95.4	108	28	24	17.5	12.8	15.1	+1.0	7.2	18	0	333	106	160	121	5.5	18	0	16.2	+1.1	89.6	62
Casement Aerodrome Co. Dublin	1-10	0.5	-	1	0	22.3	11.8	17.0	-	7.0	7	0	126	-	71	-	5.2	7	0	20.4	-	58.7	-
	11-20	43.6	-	7	6	18.8	11.1	14.9	-	8.5	17	0	105	-	50	-	6.8	18	0	16.2	-	28.8	-
	21-END	21.2	-	7	4	21.1	13.9	17.5	-	9.7	30	0	144	-	82	-	5.8	30	0	17.8	-	47.4	-
	MONTH	65.3	93	15	10	20.7	12.3	16.5	+1.9	7.0	7	0	376	112	204	128	5.2	7	0	18.1	-	134.9	88
Dublin Airport Co. Dublin	1-10	1.3	-	2	0	22.0	12.8	17.4	-	8.8	6	0	130	-	74	-	4.3	7	0	20.9	-	62.5	-
	11-20	26.4	-	6	5	18.3	11.4	14.8	-	8.5	17	0	104	-	49	-	6.1	18	0	16.8	-	33.2	-
	21-END	22.1	-	5	3	21.4	14.6	18.0	-	10.3	30	0	149	-	88	-	7.0	30	0	18.3	-	45.5	-
	MONTH	49.8	66	13	8	20.6	13.0	16.8	+2.0	8.5	17	0	383	114	211	134	4.3	7	0	18.6	+2.1	141.2	87
Kinsealy Co. Dublin	1-10	1.4	-	2	0	21.8	12.0	16.9	-	8.8	6	0	125	-	69	-	0.0	7	1	-	-	0.5	-
	11-20	26.7	-	5	5	18.8	12.0	15.4	-	9.2	17	0	110	-	55	-	0.5	17	0	-	-	38.0	-
	21-END	25.3	-	5	2	21.1	14.5	17.8	-	11.0	30	0	147	-	86	-	1.2	30	0	-	-	54.0	-
	MONTH	53.4	77	12	7	20.6	12.9	16.7	-	8.8	6	0	382	-	210	-	0.0	7	1	-	-	159.5	-
Galway Co. Galway	1-10	.	-	2	0	.	12.0	.	-	.	.	.	.	.	.	.	.	.	.	.	.	.	-
	11-20	.	-	.	.	.	.	.	-	.	.	.	.	.	.	.	.	.	.	.	.	.	-
	21-END	.	-	.	.	.	.	.	-	.	.	.	.	.	.	.	.	.	.	.	.	.	-
	MONTH	.	-	.	.	.	.	.	-	.	.	.	.	.	.	.	.	.	.	.	.	.	-
Killarney (Muckross House) Co. Kerry	1-10	0.2	-	0	0	19.7	13.8	16.7	-	12.0	6	0	123	-	67	-	8.0	1	0	-	-	42.0	-
	11-20	21.3	-	9	7	17.9	13.3	15.6	-	11.2	16	0	112	-	56	-	7.7	16	0	-	-	19.4	-
	21-END	33.5	-	8	5	20.1	14.7	17.4	-	11.2	30	0	143	-	81	-	8.0	25	0	-	-	33.0	-
	MONTH	55.0	59	17	12	19.3	14.0	16.6	-	11.2	16	0	379	-	205	-	7.7	16	0	-	-	94.4	-

TABLE 1 (CONTINUED)

AUGUST 1990

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	DEGREE DAYS ABOVE 4.4°C	% OF AVERAGE	DEGREE DAYS ABOVE 10.0°C	% OF AVERAGE	LOWEST °GRASS-MIN'	DATE	MEAN DAILY	DIFFERENCE FROM AVERAGE							
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	0.5	-	2	0	19.0	13.5	16.3	-	8.2	8	0	119	-	63	-	5.4	8	0	18.5	-	25.9	-	4.5	0	-
	11-20	31.4	-	9	6	17.5	13.1	15.3	-	11.3	16	0	109	-	53	-	9.0	16	0	16.6	-	19.8	-	4.5	2	-
	21-END	48.3	-	11	8	19.6	14.0	16.8	-	10.9	28	0	136	-	75	-	7.1	28	0	17.4	-	16.2	-	3.7	2	-
	MONTH	80.2	82	22	14	18.7	13.6	16.1	+1.1	8.2	8	0	364	107	191	120	5.4	8	0	17.5	+1.0	61.9	42	4.2	4	50
Ardfert (Liscahane) Co. Kerry	1-10	1.5	-	1	1	19.9	13.4	16.7	-	8.7	8	0	123	-	67	-	5.1	8	0	-	-	36.2	-	-	-	-
	11-20	32.0	-	9	8	18.3	12.6	15.4	-	9.7	16	0	110	-	55	-	8.3	16	0	-	-	21.6	-	-	-	-
	21-END	36.6	-	10	8	20.5	13.5	17.0	-	10.4	29	0	139	-	77	-	5.6	29	0	-	-	31.2	-	-	-	-
	MONTH	70.1	-	20	17	19.6	13.2	16.4	-	8.7	8	0	372	-	199	-	5.1	8	0	-	-	89.0	-	-	-	-
Lullymore Co. Kildare	1-10	N/R	-	N/R	N/R	N/R	N/R	N/R	-	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	-	-	N/R	-	N/R	-	-	
	11-20	N/R	-	N/R	N/R	N/R	N/R	N/R	-	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	N/R	-	-	N/R	-	N/R	-	-	
	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	N/A	-	-	N/A	-	N/A	-	-	
	MONTH	N/R	N/A	N/A	N/A	N/R	N/R	N/R	-	N/R	N/A	N/R	N/R	N/R	N/R	N/R	N/R	N/R	-	-	N/A	-	N/A	-	N/A	
Kilkenny Co. Kilkenny	1-10	0.3	-	1	0	22.6	12.1	17.4	-	9.0	6	0	130	-	74	-	4.9	6	0	20.3	-	71.6	-	2.9	0	-
	11-20	19.1	-	8	7	19.4	11.3	15.3	-	7.0	17	0	109	-	55	-	3.0	12	0	17.1	-	28.6	-	3.5	2	-
	21-END	34.4	-	6	2	22.2	13.5	17.9	-	8.4	30	0	148	-	87	-	4.1	30	0	18.7	-	44.5	-	2.9	1	-
	MONTH	53.8	82	15	9	21.4	12.4	16.9	+2.0	7.0	17	0	387	115	215	132	3.0	12	0	18.7	+1.8	144.7	97	3.1	3	76
Mooncoin (Silverspring) Co. Kilkenny	1-10	0.3	-	1	0	22.3	11.5	16.9	-	7.9	8	0	125	-	70	-	0.3	8	0	-	-	88.2	-	-	-	-
	11-20	21.6	-	8	3	19.0	12.3	15.6	-	8.1	17	0	112	-	57	-	1.5	17	0	-	-	33.0	-	-	-	-
	21-END	32.4	-	6	4	21.9	13.4	17.7	-	8.9	30	0	146	-	85	-	2.7	30	0	-	-	47.2	-	-	-	-
	MONTH	54.3	71	15	7	21.1	12.4	16.8	-	7.9	8	0	383	-	211	-	0.3	8	0	-	-	168.4	-	-	-	-
Ballinamore Co. Leitrim	1-10	7.8	-	5	4	19.7	11.3	15.5	-	8.0	4	0	111	-	56	-	1.6	6	0	-	-	27.5	-	2.4	-	-
	11-20	66.1	-	9	9	16.9	10.8	13.9	-	7.9	17	0	95	-	40	-	2.0	16	0	-	-	17.5	-	2.5	-	-
	21-END	41.1	-	11	7	19.8	12.7	16.3	-	7.9	30	0	131	-	69	-	4.0	30	0	-	-	28.8	-	1.7	-	-
	MONTH	115.0	119	25	20	18.6	11.6	15.2	-	7.9	17	0	336	-	165	-	1.6	6	0	-	-	73.8	-	2.2	-	43
Ardee (Boharnamoe) Co. Louth	1-10	1.6	-	2	1	22.1	10.5	16.3	-	6.7	6	0	119	-	65	-	N/A	N/R	-	-	-	-	-	-	-	-
	11-20	26.9	-	6	5	19.2	10.5	14.8	-	6.9	18	0	104	-	49	-	-2.5	18	3	-	-	-	-	-	-	-
	21-END	32.1	-	8	5	21.3	13.7	17.5	-	8.2	30	0	144	-	83	-	-1.2	30	1	-	-	-	-	-	-	-
	MONTH	60.6	80	16	11	20.9	11.6	16.3	-	6.7	6	0	367	-	197	-	N/A	N/R	-	-	-	-	-	-	-	-

TABLE 1 (CONTINUED)

AUGUST 1990

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		
				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	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	-	
	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	-	
	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	-	
Belmullet e Co. Mayo	1-10	11.1	-	8	2	17.8	13.1	15.5	-	9.0	7	0	111	-	55	-	5.3	7	0	17.6	-
	11-20	32.7	-	10	8	16.5	12.0	14.2	-	10.3	18	0	98	-	42	-	8.1	18	0	15.9	-
	21-END	29.8	-	9	7	18.2	13.8	16.0	-	10.3	30	0	128	-	66	-	8.5	30	0	17.0	-
	MONTH	73.6	84	27	17	17.5	13.0	15.3	+0.9	9.0	7	0	337	106	164	118	5.3	7	0	16.8	+0.8
Claremorris e Co. Mayo	1-10	6.2	-	5	3	19.7	11.6	15.6	-	8.0	7	0	112	-	58	-	2.5	7	0	17.5	-
	11-20	30.0	-	10	7	17.4	10.3	13.8	-	8.0	17	0	94	-	40	-	4.3	17	0	15.9	-
	21-END	12.3	-	5	3	19.9	13.2	16.5	-	9.2	30	0	134	-	72	-	7.9	30	0	16.9	-
	MONTH	48.5	52	20	13	19.0	11.7	15.4	+1.3	8.0	7	0	340	108	169	121	2.5	7	0	16.8	+1.3
Glenamoy Co. Mayo	1-10	17.9	-	5	3	17.6	12.3	14.9	-	9.3	3	0	105	-	50	-	5.4	6	0	-	-
	11-20	30.9	-	9	9	16.7	11.0	13.8	-	9.6	13	0	94	-	39	-	7.8	19	0	-	-
	21-END	59.5	-	9	9	18.1	12.7	15.4	-	9.6	30	0	121	-	59	-	8.2	30	0	-	-
	MONTH	108.3	103	23	21	17.5	12.0	14.7	-	9.3	3	0	321	-	148	-	5.4	6	0	-	-
Dunsany (Grange) Co. Meath	1-10	2.0	-	2	1	21.3	11.1	16.2	-	5.8	6	0	118	-	64	-	1.0	6	0	-	-
	11-20	31.0	-	9	6	17.6	10.8	14.2	-	8.0	17	0	98	-	43	-	6.5	13	0	-	-
	21-END	41.2	-	7	7	20.4	13.9	17.2	-	9.2	30	0	140	-	79	-	8.0	30	0	-	-
	MONTH	74.2	98	18	14	19.8	12.0	15.9	-	5.8	6	0	356	-	186	-	1.0	6	0	-	-
Clones e Co. Monaghan	1-10	4.7	-	4	3	20.0	11.9	16.0	-	9.0	4	0	116	-	60	-	3.2	4	0	17.7	-
	11-20	64.0	-	9	7	16.9	10.6	13.8	-	7.3	18	0	94	-	39	-	1.9	18	0	15.4	-
	21-END	30.0	-	7	7	19.8	13.8	16.8	-	8.2	30	0	137	-	76	-	3.7	30	0	17.1	-
	MONTH	98.7	115	20	17	18.9	12.2	15.6	+1.4	7.3	18	0	346	109	175	124	1.9	18	0	16.7	+1.0
Birr e Co. Offaly	1-10	3.3	-	2	1	21.1	12.2	16.6	-	9.0	6	0	122	-	67	-	4.1	4	0	18.9	-
	11-20	21.1	-	9	6	18.1	10.9	14.5	-	8.3	17	0	101	-	46	-	4.5	20	0	16.1	-
	21-END	19.4	-	9	7	21.0	13.5	17.3	-	9.3	30	0	142	-	80	-	6.6	28	0	17.7	-
	MONTH	43.8	58	20	14	20.1	12.2	16.2	+1.5	8.3	17	0	365	110	193	125	4.1	4	0	17.6	+1.1

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

AUGUST 1990

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)												BRIGHT SUNSHINE		WIND					
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	MEAN MAX.			MEAN DAILY			DIFFERENCE FROM AVERAGE		LOWEST MIN.			DATE	AIR		GROUND		SOIL (10cm)			
						MEAN	MAX.	MIN.	MEAN	DAILY	FROM AVERAGE	LOWEST	MIN.	DATE	DAYS WITH AIR FROST	DEGREE DRIES ABOVE 4.4°C	% OF AVERAGE	DEGREE DRIES 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	1.0	-	3	0	21.1	10.8	16.0	-	8.5	6	0	116	-	61	-	2.7	6	0	-	-	-	-	-	
	11-20	33.2	-	9	8	18.3	10.5	14.4	-	7.5	17	0	100	-	46	-	N/A	N/A	-	-	-	-	-	-	
	21-END	22.5	-	9	6	21.0	12.1	16.6	-	8.6	30	0	134	-	73	-	N/A	N/A	-	-	-	-	-	-	
	MONTH	56.7	-	21	14	20.2	11.2	15.7	-	7.5	17	0	350	-	180	-	N/A	N/A	-	-	-	-	-	-	
Dungarvan (Carriglea) Co. Waterford	1-10	0.3	-	1	0	22.7	12.2	17.5	-	8.8	8	0	131	-	75	-	6.8	8	0	-	-	83.6	-	1.7	-
	11-20	22.0	-	9	6	19.4	12.3	15.8	-	8.3	16	0	114	-	59	-	6.0	16	0	-	-	36.9	-	2.0	-
	21-END	33.7	-	5	3	22.1	13.7	17.9	-	6.5	30	0	148	-	88	-	4.6	30	0	-	-	40.9	-	1.5	-
	MONTH	56.0	65	15	9	21.4	12.8	17.1	-	6.5	30	0	393	-	222	-	4.6	30	0	-	-	161.4	-	1.7	66
Mullingar e Co. Westmeath	1-10	2.5	-	3	1	20.4	11.3	15.9	-	8.1	6	0	115	-	60	-	5.5	6	0	18.2	-	46.1	-	3.0	0
	11-20	33.0	-	10	7	17.5	10.4	14.0	-	7.4	20	0	96	-	41	-	5.0	20	0	15.8	-	32.6	-	3.5	2
	21-END	39.6	-	10	7	20.2	13.5	16.9	-	8.5	30	0	137	-	76	-	7.4	30	0	17.5	-	34.1	-	2.5	0
	MONTH	75.1	95	23	15	19.4	11.8	15.6	+1.7	7.4	20	0	348	107	176	119	5.0	20	0	17.2	+1.2	112.8	80	3.0	2
J.F.K. Park Co. Wexford	1-10	0.0	-	0	0	22.1	12.7	17.4	-	8.8	6	0	130	-	74	-	8.8	6	0	-	-	N/A	-	3.0	-
	11-20	22.5	-	6	5	18.7	12.2	15.5	-	8.4	17	0	111	-	55	-	8.4	17	0	-	-	N/A	-	3.6	-
	21-END	27.4	-	4	4	21.6	13.8	17.7	-	7.8	30	0	146	-	85	-	7.8	30	0	-	-	N/A	-	3.5	-
	MONTH	49.9	59	10	9	20.8	12.9	16.9	-	7.8	30	0	387	-	215	-	7.8	30	0	-	-	N/A	-	3.4	N/A
Clonroche Co. Wexford	1-10	0.5	-	1	0	22.4	12.7	17.6	-	8.6	7	0	132	-	76	-	8.6	7	0	-	-	98.9	-	1.2	-
	11-20	26.8	-	7	6	18.5	12.0	15.3	-	8.4	17	0	109	-	53	-	8.4	17	0	-	-	39.6	-	3.0	-
	21-END	22.8	-	4	3	21.5	14.1	17.8	-	8.9	30	0	147	-	86	-	8.9	30	0	-	-	58.6	-	1.8	-
	MONTH	50.1	52	12	9	20.8	13.0	16.9	-	8.4	17	0	388	-	215	-	8.4	17	0	-	-	197.1	-	2.0	77
Johnstown Castle Co. wexford	1-10	0.0	-	0	0	21.9	13.0	17.5	-	9.1	6	0	131	-	75	-	-2.2	6	1	-	-	86.7	-	1.3	-
	11-20	26.8	-	6	5	19.1	12.5	15.8	-	9.0	17	0	114	-	59	-	-0.1	17	1	-	-	35.9	-	1.7	-
	21-END	12.0	-	3	2	22.3	14.1	18.2	-	9.2	30	0	152	-	91	-	4.1	30	0	-	-	55.5	-	1.5	-
	MONTH	38.8	45	9	7	21.2	13.2	17.2	-	9.0	17	0	397	-	224	-	-2.2	6	2	-	-	178.1	-	1.5	73
Rosslare e Co. Wexford	1-10	0.0	-	0	0	21.1	14.1	17.6	-	11.9	8	0	132	-	76	-	8.5	7	0	21.5	-	103.3	-	5.1	0
	11-20	22.4	-	6	4	18.9	13.0	16.0	-	9.7	17	0	116	-	60	-	6.7	17	0	18.0	-	48.9	-	5.9	2
	21-END	7.9	-	3	1	20.4	14.3	17.3	-	10.0	30	0	142	-	81	-	7.0	30	0	19.4	-	66.8	-	4.7	1
	MONTH	30.3	42	9	5	20.2	13.8	17.0	+1.8	9.7	17	0	390	113	217	133	6.7	17	0	19.7	+2.4	219.0	120	5.2	3

TABLE 2

## GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m <sup>2</sup>
Malin Head Co. Donegal	1-10	141.59
	11-20	125.14
	21-end	111.13
	Month	377.86
Dublin Airport Co. Dublin	1-10	178.13
	11-20	123.63
	21-end	135.74
	Month	437.50
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	152.82
	11-20	108.97
	21-end	108.12
	Month	369.91
Kilkenny Co. Kilkenny	1-10	196.55
	11-20	128.93
	21-end	147.15
	Month	472.63
Belmullet Co. Mayo	1-10	104.47
	11-20	102.61
	21-end	99.18
	Month	312.26
Clones Co. Monaghan	1-10	136.72
	11-20	108.86
	21-end	115.11
	Month	360.69
Birr Co. Offaly	1-10	158.67
	11-20	111.78
	21-end	123.70
	Month	394.15

Notes on the tables in January issue

TABLE 3

## POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

August 1990

STATION	PERIOD	P.E.(mm)		SOIL MOISTURE (mm)	
		Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	39.9	20	94	-
	11-20	35.9	-	88	6
	21-end	30.6	-	65	23
	Month	106.4	-	-	-
Kinsealy Co. Dublin	1-10	38.8	12	102	-
	11-20	32.2	-	82	20
	21-end	30.7	-	70	12
	Month	101.7	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	24.5	24	40	-
	11-20	19.1	-	27	13
	21-end	11.9	-	0	34
	Month	55.5	-	-	-
Ballinamore Co. Leitrim	1-10	23.6	16	40	-
	11-20	6.3	-	0	60
	21-end	8.7	-	0	32
	Month	38.6	-	-	-
Glenamoy Co. Mayo	1-10	NA	NA	0*	NA
	11-20	NA	NA	0	NA
	21-end	NA	NA	0	NA
	Month	NA	NA	-	-
Johnstown Castle Co. Wexford	1-10	40.7	25	89	-
	11-20	24.3	-	71	18
	21-end	19.4	9	80	-
	Month	104.4	-	-	-

\*Estimated

TABLE 4

## SOIL CLIMATE (MULLINGAR)

BARE SOIL TYPE	PERIOD	MEAN TEMPERATURE (°C at 100mm)			TEMPERATURE GRADIENT (to 200mm)	SOTL WATER POTENTIAL (hPa) (at depths)	
		Max.	Daily	Min.		75mm	200mm
Peat	1-10	19.6	18.0	16.0	-0.1	409	412
	11-20	17.5	16.0	14.0	-0.4	341	271
	21-end	18.7	17.4	15.6	-0.3	67	66
Mineral	1-10	21.6	18.0	15.3	-0.6	633	399
	11-20	18.6	15.6	13.8	0.0	409	346
	21-end	19.4	17.3	15.5	-0.3	92	92

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