

METEOROLOGICAL SERVICE

METEOROLOGICAL OFFICE,
ROSSLARE,
CO. WEXFORD

AGMETBL (02)460

JULY 1986

AGROMETEOROLOGICAL BULLETIN

The Weather of July

Changeable conditions in a mainly southwesterly airflow were generally effective to the 8th and associated troughs passed over or to the south of the country. A ridge of high pressure occurred on the 9th but as it declined a warm, humid airmass set in. Subsequently a west-southwest airflow with extensive fog prevailed to the 15th. A deepening wave on a cold front caused a freshening of winds on the 16th which in turn induced a change of airmass with post frontal northwest winds on the 17th. This was followed by high pressure on the 18th.

The high declining on the 19th, a warm and humid spell set in. While this spell was interrupted by fresher conditions in a northwest airflow on the 21st, there was a return again to the humid conditions on the 24th. These conditions prevailed until the 28th when a deepening wave depression passed over the country. A further wave depression followed on the 30th.

Precipitation:

Amounts were below normal except in parts of the extreme southwest and west, and well below normal in some southern areas. Monthly totals varied from 130% of normal at Belmullet to 43% at Kilkenny. Many stations in the southern third of the country (except Valentia Observatory) received only from 6 to 10mm between 6th and 27th inclusive. Wettest days were 5th generally, 10th/11th, 16th and 27th in some places and 28th to 30th generally. Major spells favouring the spread of potato blight occurred 3rd/4th, 9th-16th, 24th/25th, and 28th-30th. Septoria in wheat and Rhynchosporium in barley were favoured by frequent wet or humid spells away from southern areas

Temperature:

Above average night-time temperatures and below average daytime values resulted in a near normal monthly mean. The latter varied from 0.6C° below at Belmullet to 0.1C° above at Kilkenny and Claremorris.

Sunshine and Radiation:

The month was extremely dull in all areas; sunshine amounts varied from 70% of normal at Rosslare to 44% at Valentia Observatory and Birr. Solar radiation was well below normal e.g. 77% at Valentia Observatory.

Wind:

Strong winds with gale gusts occurred on 16th.

Summary:

Extremely dull and rather cool; most places had below normal precipitation and well below in some southern areas.

TABLE 1 (CONTINUED)

JULY 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	31.0	-	9	7	16.0	10.0	13.0	-	5.6	7	0	86	-	32	-	3.4	7	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	32.7	-	10	7	16.9	12.4	14.7	-	9.5	18	0	103	-	47	-	7.0	18	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	74.2	-	10	8	16.0	10.3	13.2	-	9.0	24	0	96	-	35	-	6.6	24	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	137.9	127	29	22	16.3	10.9	13.6	-	5.6	7	0	285	-	114	-	3.4	7	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	11.7	-	8	4	16.1	11.3	13.7	-	9.6	9	0	93	-	37	-	5.8	9	0	16.3	-	42.2	-	6.4	0	-	-	-	-	-	-	-	-	-
	11-20	19.1	-	10	7	16.7	12.5	14.6	-	10.9	17	0	102	-	46	-	9.3	18	0	15.9	-	20.2	-	7.2	3	-	-	-	-	-	-	-	-	-
	21-END	45.4	-	11	8	14.7	10.7	12.7	-	8.9	24	0	91	-	30	-	5.5	24	0	14.5	-	31.6	-	7.9	5	-	-	-	-	-	-	-	-	-
	MONTH	76.2	95	29	19	15.8	11.5	13.6	-0.2	8.9	24	0	286	94	113	93	5.5	24	0	15.5	-0.1	94.0	69	7.2	8	69	-	-	-	-	-	-	-	-
Casement Aerodrome Co. Dublin	1-10	15.4	-	8	7	18.1	10.7	14.4	-	6.0	9	0	100	-	45	-	3.7	9	0	16.5	-	34.6	-	4.8	0	-	-	-	-	-	-	-	-	-
	11-20	12.2	-	5	3	19.2	13.0	16.1	-	10.0	19	0	117	-	61	-	7.5	19	0	17.1	-	19.1	-	5.0	1	-	-	-	-	-	-	-	-	-
	21-END	32.2	-	7	6	17.9	10.3	14.1	-	6.4	24	0	107	-	48	-	3.0	22	0	15.7	-	31.0	-	5.6	1	-	-	-	-	-	-	-	-	-
	MONTH	59.8	111	20	16	18.4	11.3	14.8	-0.1	6.0	9	0	324	96	154	95	3.0	22	0	16.4	-	84.7	56	5.1	2	71	-	-	-	-	-	-	-	-
Dublin Airport Co. Dublin	1-10	18.1	-	8	6	17.8	11.0	14.4	-	7.0	9	0	100	-	45	-	5.4	9	0	16.9	-	36.2	-	3.8	0	-	-	-	-	-	-	-	-	-
	11-20	7.7	-	6	2	19.1	13.2	16.2	-	10.6	17	0	118	-	62	-	9.8	17	0	17.6	-	26.7	-	4.1	1	-	-	-	-	-	-	-	-	-
	21-END	31.7	-	9	6	17.6	11.0	14.3	-	7.7	23	0	109	-	49	-	4.8	24	0	16.2	-	30.5	-	4.6	0	-	-	-	-	-	-	-	-	-
	MONTH	57.5	97	23	14	18.1	11.7	14.9	-0.1	7.0	9	0	326	96	156	98	4.8	24	0	16.9	-0.5	93.4	57	4.2	1	73	-	-	-	-	-	-	-	-
Kinsealy Co. Dublin	1-10	22.4	-	7	7	18.2	10.6	14.4	-	5.8	9	0	100	-	46	-	1.3	9	0	-	-	39.2	-	3.1	-	-	-	-	-	-	-	-	-	-
	11-20	7.9	-	5	2	19.4	13.4	16.4	-	10.7	19	0	120	-	64	-	5.6	17	0	-	-	28.5	-	3.1	-	-	-	-	-	-	-	-	-	-
	21-END	37.9	-	9	6	17.9	10.6	14.2	-	6.5	24	0	108	-	49	-	-0.7	24	1	-	-	28.7	-	3.4	-	-	-	-	-	-	-	-	-	-
	MONTH	68.2	122	21	15	18.5	11.5	15.0	-	5.8	9	0	328	-	159	-	-0.7	24	1	-	-	96.4	-	3.2	-	66	-	-	-	-	-	-	-	-
Galway Co. Galway	1-10	25.3	-	8	5	16.7	11.4	14.1	-	8.7	6	0	97	-	41	-	4.0	9	0	16.0	-	34.4	-	4.8	0	-	-	-	-	-	-	-	-	-
	11-20	13.9	-	6	4	17.0	13.0	15.0	-	11.3	17	0	106	-	50	-	9.0	17	0	16.4	-	16.9	-	5.1	1	-	-	-	-	-	-	-	-	-
	21-END	30.7	-	11	7	16.9	11.7	14.3	-	9.0	22	0	109	-	48	-	4.5	22	0	15.9	-	36.8	-	4.8	1	-	-	-	-	-	-	-	-	-
	MONTH	69.9	88	25	16	16.9	12.0	14.5	-0.3	8.7	6	0	312	-	139	-	4.0	9	0	16.1	-	88.1	60	4.9	2	67	-	-	-	-	-	-	-	-
Killarney (Muckross House) Co. Kerry	1-10	33.6	-	9	5	16.5	12.1	14.3	-	6.3	9	0	99	-	44	-	2.0	9	0	-	-	19.0	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	4.2	-	4	1	18.5	13.6	16.1	-	12.2	11	0	117	-	61	-	7.5	17	0	-	-	24.0	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	37.9	-	10	7	17.1	12.4	14.8	-	9.9	22	0	114	-	53	-	3.9	22	0	-	-	26.6	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	75.7	86	23	13	17.4	12.7	15.0	-	6.3	9	0	330	-	157	-	2.0	9	0	-	-	69.6	-	-	-	-	-	-	-	-	-	-	-	-

TABLE 1 (CONTINUED)

JULY 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
Cahirciveen (Valentia Obsy.) Co. Kerry	1-10	39.8	-	9	6	16.0	12.0	14.0	-	8.7	9	0	96	-	40	-	5.4	9	0	16.1	-	14.3	-	4.4	1	-
	11-20	21.1	-	6	4	17.3	13.2	15.3	-	12.0	18	0	109	-	53	-	8.5	19	0	17.1	-	18.5	-	3.8	1	-
	21-END	37.4	-	8	6	16.5	12.5	14.5	-	11.0	22	0	112	-	50	-	8.7	22	0	16.2	-	30.5	-	4.5	0	-
	MONTH	98.3	114	23	16	16.6	12.6	14.6	-0.2	8.7	9	0	316	95	143	95	5.4	9	0	16.5	-0.6	63.3	44	4.2	2	55
Ardfert (Liscahane) Co. Kerry	1-10	26.0	-	8	6	16.3	11.4	13.8	-	6.2	9	0	94	-	39	-	2.5	9	0	-	-	17.5	-	-	-	-
	11-20	6.6	-	7	3	18.7	13.3	16.0	-	11.7	18	0	116	-	60	-	7.9	12	0	-	-	30.9	-	-	-	-
	21-END	36.3	-	10	8	16.9	11.9	14.4	-	9.6	22	0	110	-	48	-	N/A	N/A	-	-	-	22.8	-	-	-	-
	MONTH	68.9	-	25	17	17.3	12.2	14.7	-	6.2	9	0	320	-	148	-	N/A	N/A	-	-	-	71.2	-	-	-	-
Lullymore Co. Kildare	1-10	21.1	-	6	5	17.3	10.1	13.7	-	5.1	9	0	93	-	39	-	1.1	9	0	-	-	31.6	-	3.4	-	-
	11-20	11.6	-	3	3	18.7	12.4	15.6	-	8.0	19	0	112	-	56	-	2.1	19	0	-	-	17.3	-	3.7	-	-
	21-END	23.8	-	7	7	17.4	10.1	13.7	-	5.8	24	0	103	-	44	-	-0.1	24	1	-	-	26.2	-	4.1	-	-
	MONTH	56.5	88	16	15	17.8	10.8	14.3	-	5.1	9	0	307	-	139	-	-0.1	24	1	-	-	75.1	-	3.7	-	57
Kilkenny Co. Kilkenny	1-10	10.0	-	8	4	18.2	10.1	14.1	-	4.8	9	0	97	-	44	-	0.6	9	0	16.6	-	26.8	-	3.0	0	-
	11-20	2.3	-	1	1	20.6	13.0	16.8	-	7.1	19	0	124	-	68	-	4.0	19	0	18.1	-	25.6	-	2.5	0	-
	21-END	13.0	-	7	2	18.7	11.3	15.0	-	7.0	22	0	117	-	56	-	2.4	23	0	16.8	-	23.9	-	3.4	0	-
	MONTH	25.3	43	16	7	19.1	11.4	15.3	+0.1	4.8	9	0	337	99	169	102	0.6	9	0	17.1	-0.9	76.3	52	3.0	0	64
Mooncoin (Silverspring) Co. Kilkenny	1-10	14.2	-	6	4	18.3	10.3	14.3	-	6.6	3	0	99	-	45	-	1.9	9	0	-	-	37.3	-	-	-	-
	11-20	1.6	-	1	1	20.6	12.6	16.6	-	6.3	19	0	122	-	67	-	1.4	19	0	-	-	27.9	-	-	-	-
	21-END	25.8	-	9	4	18.5	11.5	15.0	-	5.8	22	0	116	-	56	-	-1.8	22	1	-	-	35.6	-	-	-	-
	MONTH	41.6	68	16	9	19.1	11.4	15.3	-	5.8	22	0	337	-	168	-	-1.8	22	1	-	-	100.8	-	-	-	-
Ballinamore Co. Leitrim	1-10	14.7	-	8	4	17.4	8.7	13.0	-	4.9	2	0	86	-	34	-	N/A	N/A	-	-	-	31.2	-	2.3	-	-
	11-20	19.0	-	7	6	18.1	12.3	15.2	-	9.7	18	0	108	-	52	-	N/A	N/A	-	-	-	20.0	-	2.6	-	-
	21-END	27.2	-	10	7	17.0	10.1	13.5	-	8.0	23	0	101	-	40	-	N/A	N/A	-	-	-	26.8	-	2.7	-	-
	MONTH	60.9	74	25	17	17.5	10.3	13.9	-	4.9	2	0	295	-	126	-	N/A	N/A	-	-	-	78.0	-	2.6	-	54
Ardee (Boharnamoe) Co. Louth	1-10	16.7	-	6	4	18.0	8.7	13.4	-	4.2	9	0	90	-	37	-	2.4	9	0	-	-	-	-	-	-	-
	11-20	11.8	-	6	4	19.4	12.5	15.9	-	7.6	17	0	115	-	60	-	2.2	18	0	-	-	-	-	-	-	-
	21-END	27.0	-	8	8	18.8	9.5	14.2	-	5.4	24	0	107	-	49	-	0.2	24	0	-	-	-	-	-	-	-
	MONTH	55.5	84	20	16	18.7	10.2	14.5	-	4.2	9	0	312	-	146	-	0.2	24	0	-	-	-	-	-	-	-

TABLE 1 (CONTINUED)

JULY 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	14.3	-	8	5	17.3	11.9	14.6	-	6.9	9	0	102	-	47	-	1.0	9	0	-	-	32.1	-	2.9	-	-	-
	11-20	24.5	-	7	4	17.9	12.8	15.4	-	10.6	18	0	110	-	54	-	9.2	17	0	-	-	20.5	-	3.3	-	-	-
	21-END	46.1	-	10	6	17.4	11.0	14.2	-	9.9	23	0	108	-	46	-	7.3	23	0	-	-	31.4	-	2.9	-	-	-
	MONTH	84.9	115	25	15	17.5	11.9	14.7	-	6.9	9	0	319	-	147	-	1.0	9	0	-	-	84.0	-	3.0	-	63	-
Belmullet Co. Mayo	1-10	28.5	-	10	9	15.8	11.0	13.4	-	8.6	9	0	90	-	35	-	4.5	9	0	15.9	-	26.3	-	5.3	0	-	-
	11-20	29.5	-	9	6	16.1	12.1	14.1	-	10.3	18	0	97	-	41	-	9.2	17	0	16.0	-	14.7	-	6.6	2	-	-
	21-END	35.5	-	10	7	15.4	10.6	13.0	-	8.9	31	0	95	-	34	-	6.1	29	0	15.4	-	32.2	-	5.7	1	-	-
	MONTH	93.5	130	29	22	15.8	11.2	13.5	-0.6	8.6	9	0	282	91	109	84	4.5	9	0	15.8	-0.6	73.2	52	5.8	3	53	-
Claremorris Co. Mayo	1-10	16.1	-	8	5	17.5	10.6	14.0	-	6.7	9	0	96	-	41	-	3.0	9	0	15.8	-	27.3	-	4.7	0	-	-
	11-20	16.9	-	7	3	18.0	12.5	15.2	-	10.2	18	0	108	-	52	-	9.3	17	0	16.5	-	13.4	-	4.9	1	-	-
	21-END	41.9	-	11	7	17.2	10.7	14.0	-	8.5	22	0	105	-	44	-	7.6	22	0	15.6	-	19.6	-	4.9	1	-	-
	MONTH	74.9	100	26	15	17.6	11.2	14.4	+0.1	6.7	9	0	310	98	138	99	3.0	9	0	16.0	-0.1	60.3	49	4.8	2	56	-
Glenamoy Co. Mayo	1-10	29.8	-	10	7	16.2	11.8	14.0	-	10.2	7	0	96	-	40	-	4.9	9	0	-	-	24.8	-	3.0	-	-	-
	11-20	33.2	-	8	6	16.1	13.2	14.6	-	11.2	17	0	102	-	46	-	8.2	18	0	-	-	8.3	-	3.7	-	-	-
	21-END	41.5	-	9	8	15.6	11.5	13.6	-	9.5	29	0	101	-	39	-	4.9	29	0	-	-	26.4	-	3.0	-	-	-
	MONTH	104.5	116	27	21	15.9	12.1	14.0	-	9.5	29	0	299	-	125	-	4.9	9	0	-	-	59.5	-	3.2	-	49	-
Dunsany (Grange) Co. Meath	1-10	21.6	-	8	7	17.3	10.4	13.8	-	5.0	9	0	94	-	41	-	0.3	9	0	-	-	33.7	-	-	-	-	-
	11-20	13.5	-	6	5	18.5	12.7	15.6	-	9.3	19	0	112	-	56	-	5.5	19	0	-	-	19.2	-	-	-	-	-
	21-END	25.3	-	9	6	17.4	10.3	13.9	-	5.5	24	0	104	-	45	-	0.9	24	0	-	-	N/A	-	-	-	-	-
	MONTH	60.4	90	23	18	17.7	11.1	14.4	-	5.0	9	0	310	-	142	-	0.3	9	0	-	-	N/A	-	-	-	-	-
Clones Co. Monaghan	1-10	15.8	-	7	5	17.4	10.2	13.8	-	6.6	9	0	94	-	40	-	0.7	9	0	15.8	-	28.6	-	2.7	0	-	-
	11-20	23.0	-	8	6	18.6	12.5	15.5	-	10.3	18	0	111	-	55	-	8.3	19	0	16.4	-	16.8	-	2.9	1	-	-
	21-END	23.4	-	11	5	17.1	10.3	13.7	-	7.8	24	0	103	-	42	-	2.5	24	0	15.4	-	34.5	-	3.6	0	-	-
	MONTH	62.2	86	26	16	17.7	11.0	14.3	-0.1	6.6	9	0	308	96	137	96	0.7	9	0	15.8	-0.6	79.9	64	3.1	1	59	-
Birr Co. Offaly	1-10	19.6	-	8	5	17.3	10.4	13.8	-	6.4	9	0	94	-	40	-	2.3	9	0	15.9	-	21.3	-	2.4	0	-	-
	11-20	5.4	-	5	2	19.1	12.7	15.9	-	8.6	19	0	115	-	60	-	4.7	19	0	17.1	-	14.7	-	2.2	1	-	-
	21-END	30.4	-	6	4	17.3	11.4	14.4	-	8.1	22	0	110	-	49	-	5.2	22	0	16.2	-	22.7	-	2.8	0	-	-
	MONTH	55.4	81	19	11	17.9	11.5	14.7	-0.1	6.4	9	0	319	95	148	94	2.3	9	0	16.4	-1.0	58.7	44	2.5	1	55	-

TABLE 1 (CONTINUED)

JULY 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	20.0	-	8	6	17.3	10.2	13.7	-	6.6	3	0	93	-	39	-	1.7	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	2.7	-	3	1	19.7	13.0	16.4	-	10.3	19	0	120	-	64	-	5.0	19	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	25.6	-	7	6	18.0	11.3	14.6	-	6.4	22	0	112	-	52	-	1.8	22	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	48.3	-	18	13	18.3	11.5	14.9	-	6.4	22	0	325	-	155	-	1.7	3	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dungarvan (Carriglea) Co. Waterford	1-10	18.5	-	5	5	18.6	11.1	14.9	-	7.4	3	0	105	-	50	-	6.7	3	0	-	-	29.5	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	2.8	-	3	1	20.9	13.7	17.3	-	10.4	17	0	129	-	73	-	9.0	17	0	-	-	38.2	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	33.1	-	8	3	19.0	11.6	15.3	-	5.1	22	0	120	-	60	-	4.0	22	0	-	-	36.9	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	54.4	81	16	9	19.5	12.1	15.8	-	5.1	22	0	354	-	182	-	4.0	22	0	-	-	104.6	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mullingar Co. Westmeath	1-10	23.4	-	8	3	17.2	10.2	13.7	-	5.6	9	0	93	-	39	-	3.1	9	0	16.0	-	31.5	-	4.0	0	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	18.2	-	7	5	18.5	12.5	15.5	-	9.3	19	0	111	-	55	-	6.2	19	0	16.7	-	18.4	-	3.8	1	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	30.0	-	10	7	17.2	10.6	13.9	-	8.0	22	0	104	-	44	-	4.7	22	0	15.4	-	33.0	-	4.1	0	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	71.6	99	25	15	17.6	11.1	14.3	+0.0	5.6	9	0	308	93	138	91	3.1	9	0	16.0	-0.7	82.9	60	4.0	1	61	-	-	-	-	-	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	12.0	-	4	4	17.7	10.9	14.3	-	7.0	9	0	99	-	44	-	N/A	N/A	-	-	41.5	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	1.6	-	2	1	19.8	12.5	16.1	-	8.9	19	0	117	-	62	-	5.1	17	0	-	-	25.8	-	3.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	37.6	-	6	4	17.9	11.0	14.4	-	4.8	22	0	110	-	51	-	0.0	22	0	-	-	39.4	-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	51.2	76	12	9	18.4	11.4	14.9	-	4.8	22	0	326	-	156	-	N/A	N/A	-	-	106.7	-	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Clonroche Co. Wexford	1-10	15.8	-	7	5	17.6	10.6	14.1	-	6.2	9	0	97	-	43	-	1.0	9	0	-	-	42.5	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	8.9	-	3	2	20.0	11.9	15.9	-	6.7	17	0	115	-	61	-	1.5	17	0	-	-	29.1	-	1.8	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	44.6	-	7	5	18.3	9.5	13.9	-	4.8	22	0	105	-	46	-	-0.9	22	1	-	-	43.0	-	2.3	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	69.3	90	17	12	18.6	10.6	14.6	-	4.8	22	0	317	-	150	-	-0.9	22	1	-	-	114.6	-	2.0	-	-	-	-	-	-	-	-	-	-	-	-	-	
Johnstown Castle Co. wexford	1-10	14.0	-	5	3	17.3	11.2	14.2	-	8.1	9	0	98	-	43	-	3.0	9	0	-	-	48.8	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	2.0	-	1	1	19.1	12.6	15.9	-	9.0	17	0	115	-	59	-	2.4	17	0	-	-	36.5	-	3.1	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	47.1	-	5	3	17.4	11.2	14.3	-	7.3	23	0	109	-	49	-	-1.4	23	1	-	-	43.6	-	3.9	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	63.1	90	11	7	17.9	11.6	14.8	-	7.3	23	0	322	-	151	-	-1.4	23	1	-	-	128.9	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rosslare Co. Wexford	1-10	9.6	-	4	2	17.5	11.6	14.5	-	9.3	7	0	101	-	46	-	5.4	7	0	16.9	-	53.2	-	4.6	1	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	3.6	-	2	1	19.1	13.1	16.1	-	10.2	17	0	117	-	61	-	6.5	19	0	18.3	-	36.3	-	4.2	0	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	42.1	-	4	3	17.7	11.8	14.7	-	7.9	22	0	114	-	53	-	4.9	22	0	17.3	-	45.5	-	5.2	0	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	55.3	94	10	6	18.1	12.1	15.1	+0.0	7.9	22	0	332	98	160	103	4.9	22	0	17.5	-0.7	135.0	70	4.7	1	80	-	-	-	-	-	-	-	-	-	-		

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m ²
Malin Head Co. Donegal	1-10	160.16
	11-20	126.83
	21-end	149.96
	Month	436.95
Dublin Airport Co. Dublin	1-10	151.13
	11-20	127.86
	21-end	145.43
	Month	424.42
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	115.90
	11-20	124.83
	21-end	145.85
	Month	386.58
Kilkenny Co. Kilkenny	1-10	152.21
	11-20	145.18
	21-end	147.24
	Month	444.63
Belmullet Co. Mayo	1-10	133.16
	11-20	113.55
	21-end	147.59
	Month	394.30
Clones Co. Monaghan	1-10	140.38
	11-20	119.13
	21-end	150.08
	Month	409.59
Birr Co. Offaly	1-10	135.07
	11-20	118.81
	21-end	142.77
	Month	396.65

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	1-9	15.5	3	3	-
	10-20	22.6	14	17	-
	21-end	23.1	7	24	-
	Month	61.2	-	-	-
Kinsealy Co. Dublin	30-11	28.4	-	10	5
	12-20	15.2	10	20	-
	21-end	20.5	-	3	17
	Month	64.1	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	19.5	-	0	20
	11-20	11.1	-	0	10
	21-end	11.4	-	0	26
	Month	42.0	-	-	-
Ballinamore Co. Leitrim	30-10	18.1	-	12	10
	11-20	15.5	-	8	4
	21-end	28.0	1	9	-
	Month	61.6	-	-	-
Glenamoy Co. Mayo	1-10	11.9	-	0	18
	11-20	15.6	-	0	18
	21-end	18.8	-	0	23
	Month	46.3	-	-	-
Johnstown Castle Co. Wexford	1-10	19.9	6	6	-
	11-20	15.5	14	20	-
	21-end	23.1	-	0	24
	Month	58.5	-	-	-

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	17.7	15.6	13.0	-0.3
11-20	18.2		16.4	14.7	-0.6	67	64
21-end	17.0		15.1	13.3	-0.4	89	80
Mineral	1-10	17.7	15.4	12.9	-0.2	71	71
	11-20	18.3	16.3	14.3	-0.3	59	56
	21-end	17.0	14.9	12.7	-0.0	89	60

special topic POTATO BLIGHT

"Weather conditions favouring the spread of potato blight will occur at intervals over the next week. There will be opportunities to spray."

The above is the text of the most recent potato blight warning issued by the Meteorological Service (25/7/86) and broadcast on the 1.30pm RTE Radio 1 News Bulletin. By this means farmers throughout the country were quickly alerted to the forthcoming spell so that they could take protective action before blight infection developed on their crops. Such warnings are issued only when necessary before the occurrence of significant spells, which may number from 4 to 7 occasions each year. In a survey undertaken last year one ACOT adviser noted that blight warnings had a 'profound effect' on potato production in Ireland.

The number of Effective Blight Hours (EBH) is also monitored by the Meteorological Service each year during the season May 1 to September 30. EBH are accumulated when an initial critical period of 11(wet) or 15(dry) uninterrupted hours with 90% or more relative humidity and air temperature of 10°C or more is complete and the subsequent continuation of the conditions occurs. Such spells are significant when the total EBH in any period is considerable although any number of EBH will promote the spread of infection to some degree.

Figure 1 shows the number of blight hours recorded from May 1 to July 29 1986, expressed as a percentage of average. Totals in hours of blight weather for the same period are given in brackets. EBH accumulations were above average everywhere except at Kilkenny where they were slightly below average. Accumulations were very much above average in most western areas and in parts of the east. It can be seen that there is considerable variation in the actual number of EBH (values in brackets) across the country.

Table 1 shows the percentage of the potato crop infected by blight as observed by inspectors during the last week of July over the last three years based on the British Mycological Society rating scale.

The following points may be noted:

- (a) Totals of EBH are different in each year.
- (b) Infection levels in each of the districts are very different in each of the years.
- (c) Infection levels from district to district are very dissimilar.
- (d) There is little correlation between the absolute value of EBH and the level of infection on the crop (contrast Tullamore with Bunrana in 1985, for example).
- (e) There is a good correlation between the relative differences between years in the level of infection observed in any one district and the relative differences between years in the number of EBH accumulated at a station in the area.

FIGURE 1:

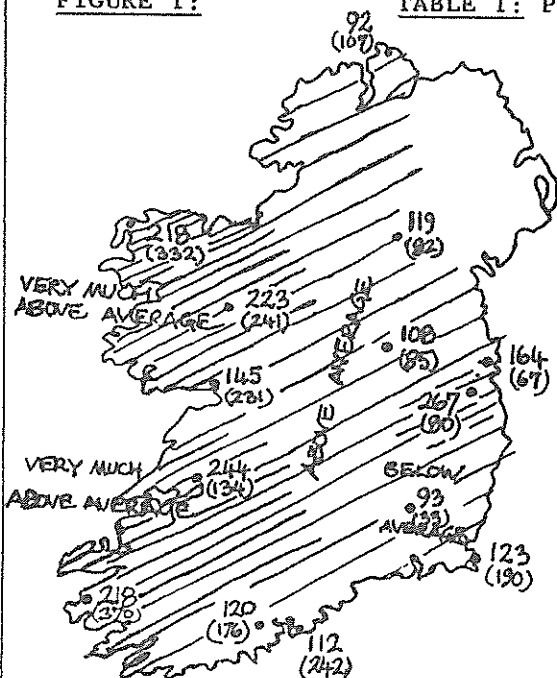


TABLE 1: Percentage of the crop (0-100%) observed (last report of July) at the stated % of Blighted Foliage (0-50%) (based on British Mycological Society rating scale)

District	Year	0%	0.1%	1%	5%	25%	50%	EBH
DUBLIN	1984	95	5	0	0	0	0	41
	1985	0	5	29	40	12	14	105
	1986	5	80	10	5	0	0	67
WEXFORD	1984	94	5	1	0	0	0	49
	1985	20	72	6	2	0	0	221
	1986	40	50	8	2	0	0	190
BUNCRANA	1984	30	70	0	0	0	0	216
	1985	10	70	20	0	0	0	120
	1986	95	5	0	0	0	0	107
GALWAY	1984	98	2	0	0	0	0	106
	1985	0	88	10	2	0	0	92
	1986	3	83	12	2	0	0	231
TULLAMORE	1984	95	5	0	0	0	0	19
	1985	0	40	40	20	0	0	30
	1986	20	55	20	5	0	0	63