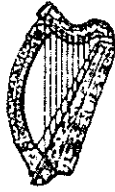


# METEOROLOGICAL SERVICE



## AGROMETEOROLOGICAL BULLETIN

SEPTEMBER 1978

### The Weather of September

From 1st to 4th it was mostly dry with normal temperatures. Between 5th and 15th it was mild. On the night of 10th in tropical air, minimum temperatures ranged  $15^{\circ}\text{C}$  to  $18^{\circ}\text{C}$ ; these are the normal day-time maximum temperatures. There was rain at times in this period but the main harvesting areas of the east and south escaped much more lightly than the west and north.

While there was occasional light rain, chiefly in Ulster and Connaught, the period 16th - 23rd was mainly dry and there was a warm spell between 21st and 23rd. Temperatures dropped below normal during the last week of September and the weather was unsettled with heavy rain in places on 26th and 28th.

Mean Monthly Rainfall Amounts exhibited a strong north-south gradient, ranging from over 125% of normal near the north coast to less than 35% of normal in southern coastal counties. Southwesterly winds dominated during September and the Atlantic rainbelts were much more active in the northwest than in the south and east. On 28th, for example, the north and northwest had 20 to 40 mm. of rain while parts of the south and southeast escaped with less than 5 mm. Glencolumbkille had 21 wet days with rainfall in excess of 1 mm. while Johnstown Castle recorded only 4 wet days. Soil moisture deficits sufficient to slow grass growth developed in south Munster and the south-east of Leinster in the second half of the month. The weather was favourable to the spread of potato blight in all areas between 9th and 13th and on 23rd and 24th. On 28th blight weather conditions occurred in the northern half of the country.

Mean Monthly Air Temperatures ranged from  $0.5^{\circ}\text{C}$  to  $1.2^{\circ}\text{C}$  above normal in most areas; even on the south, west and northwest coasts which were affected by onshore winds for much of the time, air temperatures ranged from  $0.2^{\circ}\text{C}$  to  $0.5^{\circ}\text{C}$  above normal. Soil temperatures at 10 cm. were between  $0.3^{\circ}\text{C}$  and  $1.1^{\circ}\text{C}$  above normal. Ground frost occurred on 3rd, 17th, 18th and to a lesser extent on 2nd, 12th and 25th.

Mean Daily Duration of Bright Sunshine was well below normal in the north, west and midlands but was about normal in the east, south and southwest. Values varied from 6% of normal at Claremorris to 108% of normal at Roche's Point.

Winds were strong and gusty between 9th and 11th, on 15th and 16th and again on 29th. The general range of gusts was from 21 to  $28\text{ ms}^{-1}$  (40 to 55 kts.) but a few gusts in the range 28 to  $33\text{ ms}^{-1}$  (55 to 65 kts.) were reported.

Summary September was mild but except in the east and south it was dull. Rainfall varied from 159% of normal at Malin Head to 14% of normal at Rosslare.

The data contained in this Bulletin are provisional. Some of the material in Table 1 will be published in its final form later in the Monthly Weather Report; final values of Solar Radiation at stations marked "e" in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

SEPTEMBER 1978

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C												BRIGHT SUNSHINE		WIND			
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR						GROUND		SOIL (10 CM)		MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS				
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST ABOVE 4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE					DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE	
Carlow (Oak Park) Co. Carlow	1-10	4.7	/	4	2	19.4	10.3	14.9	/	7.0	03	0	105	49	2.5	04	0	/	/	3.23	/	3	/
	11-20	5.7	/	1	1	17.6	10.0	13.8	/	3.5	18	0	94	39	-1.6	18	1	/	/	3.29	/	3	/
	21-end	9.4	/	4	4	17.3	10.3	13.8	/	7.0	30	0	95	40	3.0	25	0	/	/	4.98	/	4	/
	Month	19.8	/	9	7	18.1	10.2	14.2	/	3.5	18	0	294	128	-1.6	18	1	/	/	3.83	/	3	/
Shannon Airport Co. Clare	1-10	16.8	-	7	5	18.5	12.4	15.5	-	9.1	02	0	111	55	4.0	03	0	16.5	-	2.99	-	5	0
	11-20	4.1	-	3	2	17.9	12.1	15.0	-	7.4	18	0	106	50	4.7	17	0	15.5	-	2.65	-	5	2
	21-end	24.7	-	7	6	17.5	11.0	14.2	-	8.5	30	0	99	43	6.0	30	0	14.9	-	4.69	-	7	3
	Month	45.6	52	17	13	18.0	11.7	14.8	+1.1	7.4	18	0	314	146	4.0	03	0	15.6	+1.0	3.44	88	6	5
Fermoy (Moore Park) Co. Cork	1-10	8.9	/	4	2	19.1	9.8	14.4	/	4.3	02	0	101	45	-0.5	02	1	/	/	/	/	3	/
	11-20	6.2	/	3	1	17.8	8.4	13.1	/	1.0	18	0	87	32	-2.2	18	2	/	/	/	/	2	/
	21-end	9.3	/	4	4	17.2	8.9	13.1	/	4.0	25	0	87	31	-0.7	25	1	/	/	NA	/	4	/
	Month	24.4	/	11	7	18.1	9.0	13.5	/	1.0	18	0	275	108	-2.2	18	4	/	/	/	/	3	/
Mallow Co. Cork	1-10	10.9	-	5	2	19.7	10.8	15.2	/	5.2	02	0	109	53	-0.7	02	1	/	/	2.70	/	/	/
	11-20	7.6	-	2	1	18.7	9.1	13.9	/	0.5	18	0	95	40	-2.5	18	2	/	/	3.23	/	/	/
	21-end	13.4	-	6	4	17.6	9.3	13.5	/	5.5	25	0	91	35	NA	-	-	/	/	4.54	/	/	/
	Month	31.9	33	13	7	18.7	9.7	14.2	/	0.5	18	0	295	128	-	-	-	/	/	3.49	/	/	/
Roche's Point Co. Cork	1-10	15.7	-	4	2	17.6	12.7	15.2	-	9.5	02	0	108	52	4.1	02	0	16.3	-	3.42	-	5	1
	11-20	4.1	-	2	1	16.9	11.0	13.9	-	7.4	18	0	96	40	3.6	18	0	15.5	-	4.47	-	5	2
	21-end	3.8	-	3	1	16.2	11.0	13.6	-	9.0	30	0	94	38	6.0	21	0	14.4	-	5.70	-	7	3
	Month	23.6	27	9	4	16.9	11.6	14.2	+0.2	7.4	18	0	298	130	3.6	18	0	15.4	+0.9	4.55	108	6	6
Glencolumbkille Co. Donegal	1-10	56.6	/	7	7	16.4	12.0	14.2	/	11.3	02	0	99	43	6.2	04	0	/	/	NA	/	4	/
	11-20	20.1	/	6	5	15.8	11.4	13.6	/	10.0	14	0	92	36	6.2	18	0	/	/	2.35	/	5	/
	21-end	85.1	/	9	9	14.8	10.5	12.6	/	7.8	30	0	84	27	6.0	30	0	/	/	2.28	/	6	/
	Month	161.8	/	22	21	15.7	11.3	13.5	/	7.8	30	0	275	106	6.0	30	0	/	/	-	/	5	/
Glenties Co. Donegal	1-10	43.1	-	9	7	17.1	10.8	14.0	/	7.5	04	0	96	40	1.0	06	0	/	/	2.04	/	/	/
	11-20	22.7	-	9	6	17.1	8.5	12.8	/	5.5	12	0	85	29	-0.5	12	1	/	/	2.60	/	/	/
	21-end	89.7	-	9	8	15.6	8.7	12.1	/	6.0	22	0	78	22	3.0	22	0	/	/	2.48	/	/	/
	Month	155.5	101	27	21	16.6	9.3	13.0	/	5.5	12	0	259	91	-0.5	12	1	/	/	2.37	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

SEPTEMBER 1978

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND	
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR						GROUND				SOIL (10 CM)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE				
Malin Head Co. Donegal	1-10	58.1	-	9	7	16.1	11.2	13.6	-	8.6	04	0	93	37	6.0	04	0	14.1	-	2.50	-	7	5
	11-20	19.3	-	7	5	15.6	11.4	13.5	-	9.0	20	0	91	35	6.9	20	0	13.5	-	3.35	-	9	7
	21-end	90.9	-	9	8	15.0	10.9	12.9	-	9.0	27	0	85	29	7.1	30	0	12.7	-	2.16	-	10	10
	Month	168.3	159	25	20	15.6	11.1	13.3	+0.3	8.6	04	0	269	101	6.0	04	0	13.4	+0.3	2.67	70	9	22
Dublin Airport Co. Dublin	1-10	12.6	-	6	4	18.6	11.8	15.2	-	7.8	02	0	107	51	1.7	02	0	16.2	-	3.44	-	4	0
	11-20	4.9	-	3	1	17.4	10.1	13.8	-	6.9	18	0	94	38	4.5	18	0	14.6	-	3.34	-	5	3
	21-end	20.8	-	5	4	17.0	10.2	13.6	-	6.4	30	0	92	36	4.3	25	0	14.1	-	4.72	-	7	3
	Month	38.3	49	14	9	17.7	10.7	14.2	+1.0	6.4	30	0	293	125	1.7	02	0	14.5	+0.9	3.83	93	5	6
Kincealy Co. Dublin	1-10	14.8	/	5	5	18.7	10.7	14.8	/	7.5	02	0	104	48	4.4	04	0	/	/	NA	/	4	/
	11-20	6.5	/	3	1	17.8	9.9	13.8	/	6.1	18	0	95	39	3.4	18	0	/	/	3.69	/	4	/
	21-end	16.2	/	5	4	17.3	10.4	13.9	/	5.9	30	0	95	40	4.0	30	0	/	/	5.20	/	4	/
	Month	37.5	/	13	10	17.9	10.3	14.1	/	5.9	30	0	294	127	3.4	18	0	/	/	-	/	5	/
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	8.2	/	6	3	18.5	9.7	14.1	/	5.8	04	0	97	41	2.2	02	0	/	/	2.49	/	3	/
	11-20	6.0	/	3	1	17.2	9.5	13.3	/	5.8	18	0	89	33	1.6	18	0	/	/	NA	/	3	/
	21-end	23.0	/	5	5	16.7	10.0	13.3	/	5.6	30	0	90	34	3.2	30	0	/	/	4.36	/	4	/
	Month	37.2	/	14	9	17.5	9.7	13.6	/	5.6	30	0	276	108	1.6	18	0	/	/	-	/	3	/
Galway (Univ. Coll.) Co. Galway	1-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	11-20	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
Killarney (Muckross Hse) Co. Kerry	1-10	7.5	/	6	4	18.0	12.0	15.0	/	5.7	03	0	106	50	3.7	03	0	/	/	3.29	/	/	/
	11-20	5.9	/	4	1	17.6	10.4	14.0	/	2.5	18	0	96	40	1.2	18	0	/	/	4.28	/	/	/
	21-end	24.5	/	6	5	16.9	12.1	14.5	/	8.2	30	0	101	45	6.6	30	0	/	/	4.67	/	/	/
	Month	37.9	/	16	10	17.5	11.5	14.5	/	2.5	18	0	303	135	1.2	18	0	/	/	4.08	/	/	/
Cahirveen (Valentia Obsy.) Co. Kerry	1-10	19.3	-	5	3	17.9	12.1	15.0	-	7.5	02	0	106	50	5.5	02	0	16.5	-	3.62	-	5	2
	11-20	4.9	-	4	1	17.1	10.1	13.6	-	4.0	18	0	92	36	1.4	18	0	15.1	-	4.19	-	4	2
	21-end	18.0	-	8	6	16.3	11.7	14.0	-	8.9	29	0	96	40	7.0	30	0	14.4	-	3.33	-	7	2
	Month	42.2	33	17	10	17.1	11.3	14.2	+0.2	4.0	18	0	294	126	1.4	18	0	15.3	+0.8	3.71	97	5	6

Notes on the tables in January issue

TABLE 1 (Continued)

SEPTEMBER 1978

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND		
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10 CM)				MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	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	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MET."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE					
Tralee (Caherweesheen) Co. Kerry	1-10	8.3	/	3	2	18.8	12.8	15.8	/	10.1	02	0	114	58	6.8	01	0	/	/	3.30	/	/	/	/
	11-20	5.3	/	1	1	18.7	11.2	15.0	/	5.0	18	0	106	50	-0.2	18	1	/	/	3.65	/	/	/	/
	21-end	23.3	/	6	5	17.5	12.4	15.0	/	10.2	29	0	106	50	7.0	21	0	/	/	4.21	/	/	/	/
	Month	36.9	/	10	8	18.3	12.1	15.2	/	5.0	18	0	326	158	-0.2	18	1	/	/	3.72	/	/	/	/
Lullymore Co. Kildare	1-10	14.2	/	7	5	18.7	9.3	14.0	/	4.2	04	0	96	40	0.5	03	0	/	/	NA	/	/	4	/
	11-20	7.0	/	4	2	17.0	8.7	12.9	/	3.5	18	0	85	30	-2.1	18	0	/	/	2.29	/	/	4	/
	21-end	25.4	/	6	4	16.6	9.8	13.2	/	5.4	30	0	88	34	1.4	30	0	/	/	4.33	/	/	6	/
	Month	46.6	/	17	11	17.4	9.3	13.4	/	3.5	18	0	269	104	-2.1	18	0	/	/	-	/	/	5	/
Kilkenny e Co. Kilkenny	1-10	8.7	-	5	2	19.2	10.0	14.6	-	4.1	03	0	102	46	1.1	03	0	16.5	-	3.14	-	3	1	/
	11-20	4.3	-	3	1	17.6	8.7	13.1	-	1.6	18	0	88	33	-1.4	18	1	15.0	-	3.31	-	3	2	/
	21-end	9.7	-	5	3	17.5	9.4	13.5	-	5.8	25	0	91	35	3.7	25	0	14.1	-	5.41	-	4	2	/
	Month	22.7	27	13	6	18.1	9.4	13.7	+0.5	1.6	18	0	281	114	-1.4	18	1	15.2	+1.1	3.95	103	3	5	/
Mooncoin (Silverspring) Co. Kilkenny	1-10	5.8	/	4	2	19.3	9.9	14.6	/	3.6	03	0	102	46	-0.7	03	2	/	/	3.72	/	/	/	/
	11-20	5.0	/	1	1	17.9	8.9	13.4	/	2.2	18	0	90	35	-3.0	18	2	/	/	4.01	/	/	/	/
	21-end	5.1	/	3	2	17.6	8.7	13.1	/	5.1	25	0	87	32	-0.5	25	1	/	/	5.51	/	/	/	/
	Month	15.9	/	8	5	18.3	9.1	13.7	/	2.2	18	0	279	113	-3.0	18	5	/	/	4.41	/	/	/	/
Ballinamore Co. Leitrim	1-10	49.3	/	6	6	17.4	10.7	14.1	/	8.6	08	0	97	41	2.2	06	0	/	/	2.25	/	3	/	/
	11-20	10.8	/	7	3	16.4	9.7	13.0	/	5.9	18	0	86	30	-2.0	18	1	/	/	1.63	/	3	/	/
	21-end	69.6	/	8	8	15.2	9.5	12.4	/	5.4	25	0	80	24	0.8	25	0	/	/	3.20	/	4	/	/
	Month	129.7	/	21	17	16.3	10.0	13.1	/	5.4	25	0	263	95	-2.0	18	1	/	/	2.36	/	3	/	/
Ardee (Boharnamoe) Co. Louth	1-10	40.6	/	6	5	18.4	8.7	13.5	/	5.9	04	0	91	35	-0.1	02	1	/	/	/	/	/	/	/
	11-20	19.2	/	6	3	16.9	8.8	12.9	/	4.2	17	0	85	30	-1.2	17	1	/	/	/	/	/	/	/
	21-end	25.8	/	7	6	16.4	9.1	12.8	/	3.5	26	0	84	29	-0.9	25	1	/	/	/	/	/	/	/
	Month	85.6	/	19	14	17.2	8.9	13.1	/	3.5	26	0	260	94	-1.2	17	3	/	/	/	/	/	/	/
Ballinrobe (Oreagh) Co. Mayo	1-10	27.3	/	7	6	18.2	11.0	14.6	/	8.2	01	0	102	46	5.3	01	0	/	/	/	/	3	/	/
	11-20	12.5	/	6	3	17.1	10.3	13.7	/	5.2	18	0	94	38	-0.2	18	1	/	/	NA	/	4	/	/
	21-end	41.5	/	8	7	16.0	10.4	13.2	/	8.2	30	0	88	32	5.1	30	0	/	/	/	/	4	/	/
	Month	81.3	/	21	16	17.1	10.6	13.8	/	5.2	18	0	284	116	-0.2	18	1	/	/	/	/	4	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

SEPTEMBER 1978

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND	
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10 CM)			MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS ABOVE 10.0°C	LOWEST "GRASS-MIN."	DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE				
Belmullet Co. Mayo	1-10	43.5	-	7	5	17.3	12.8	15.0	-	11.5	02	0	107	51	9.8	01	0	16.2	-	3.35	-	6	3
	11-20	13.1	-	5	4	16.1	11.5	13.8	-	9.8	17	0	95	39	6.1	18	0	14.5	-	2.44	-	8	4
	21-end	65.6	-	8	7	15.0	10.9	12.9	-	7.6	29	0	85	29	6.5	30	0	13.5	-	2.10	-	10	8
	Month	122.2	113	20	16	16.1	11.7	13.9	+0.5	7.6	29	0	287	119	6.1	18	0	14.7	+0.9	2.63	64	8	15
Claremorris Co. Mayo	1-10	19.6	-	7	4	18.0	11.5	14.8	-	10.1	03	0	104	48	7.1	03	0	15.3	-	2.03	-	4	2
	11-20	10.9	-	6	3	16.9	9.9	13.4	-	5.1	18	0	90	34	2.3	17	0	14.2	-	1.61	-	5	3
	21-end	80.8	-	9	7	15.4	9.7	12.5	-	6.6	30	0	83	27	4.3	30	0	13.1	-	2.93	-	6	2
	Month	111.3	99	22	14	16.8	10.4	13.6	+1.1	5.1	18	0	277	109	2.3	17	0	14.2	+0.9	2.19	63	5	7
Glenamoy Co. Mayo	1-10	47.3	/	9	7	17.5	12.1	14.8	/	10.3	02	0	104	48	8.9	01	0	/	/	NA	/	/	/
	11-20	22.8	/	7	5	16.4	11.0	13.7	/	6.4	18	0	93	37	4.4	18	0	/	/	2.01	/	NA	/
	21-end	79.4	/	10	8	15.0	10.6	12.8	/	7.5	30	0	84	28	5.5	30	0	/	/	1.98	/	NA	/
	Month	149.5	/	26	20	16.3	11.2	13.7	/	6.4	18	0	281	113	4.4	18	0	/	/	-	/	NA	/
Dunsany (Grange) Co. Meath	1-10	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	11-20	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	21-end	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
	Month	/	/	/	/	/	/	/	/	NOT AVAILABLE	/	/	/	/	/	/	/	/	/	/	/	/	/
Clones Co. Monaghan	1-10	34.5	-	7	5	17.5	11.1	14.3	-	8.8	04	0	99	43	4.0	02	0	14.5	-	2.34	-	4	0
	11-20	9.7	-	7	5	16.1	9.4	12.8	-	6.4	18	0	84	28	1.4	18	0	13.3	-	2.20	-	5	4
	21-end	51.7	-	8	7	15.3	9.2	12.2	-	6.1	25	0	79	25	3.0	30	0	12.5	-	3.43	-	6	2
	Month	95.9	107	22	17	16.3	9.9	13.1	+0.7	6.1	25	0	262	96	1.4	18	0	13.4	+0.1	2.66	81	5	6
Birr Co. Offaly	1-10	15.0	-	6	4	18.2	11.4	14.8	-	6.8	03	0	104	48	3.2	03	0	16.2	-	2.62	-	5	2
	11-20	5.4	-	4	1	17.2	9.8	13.5	-	4.7	18	0	91	35	-0.5	18	1	14.5	-	1.94	-	5	4
	21-end	21.5	-	5	5	16.5	9.9	13.2	-	6.5	30	0	88	33	3.6	30	0	13.9	-	4.00	-	5	2
	Month	41.9	50	15	10	17.3	10.4	13.8	+0.7	4.7	18	0	283	116	-0.5	18	1	14.8	+0.8	2.85	74	5	8
Thurles Co. Tipperary	1-10	16.4	-	6	5	19.0	10.1	14.6	-	4.3	04	0	102	46	NA	-	/	/	3.14	/	/	/	
	11-20	3.2	-	1	1	17.5	8.5	13.0	-	2.5	18	0	86	31	-3.3	18	2	/	/	3.01	/	/	/
	21-end	9.2	-	4	2	NA	NA	-	-	-	-	-	NA	NA	NA	-	/	/	NA	/	/	/	
	Month	28.8	32	11	8	-	-	-	-	-	-	-	-	-	-	-	-	/	/	-	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

SEPTEMBER 1978

STATION	PERIOD	RAINFALL (MM.)				TEMPERATURE °C														BRIGHT SUNSHINE		WIND	
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR						GROUND		SOIL (10 CM)		MEAN DAILY (HRS.)	% OF AVERAGE	MEAN SPEED (ms <sup>-1</sup> )	DAYS WITH GALE GUSTS				
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST	DEGREE DAYS ABOVE 4.4°C	DEGREE DAYS BELOW 10.0°C	LOWEST "GRASS-MIN."					DATE	DAYS WITH GROUND FROST	MEAN DAILY	DIFFERENCE FROM AVERAGE
Dungarvan (Ballygagin) Co. Waterford	1-10	8.2	/	5	3	18.3	11.3	14.8	/	6.5	03	0	109	53	7.1	03	0	/	/	/	/	2	/
	11-20	5.8	/	1	1	18.2	10.2	14.2	/	5.0	17	0	98	42	2.9	18	0	/	/	/	2	/	
	21-end	4.9	/	4	2	17.6	10.5	14.1	/	7.7	30	0	97	41	5.5	30	0	/	/	/	3	/	
	Month	18.9	/	10	6	18.0	10.7	14.3	/	5.0	17	0	304	136	2.9	18	0	/	/	/	2	/	
Mullingar e Co. Westmeath	1-10	25.4	-	7	6	17.7	10.5	14.1	-	6.8	03	0	97	41	4.1	01	0	14.9	-	2.40	-	5	2
	11-20	18.5	-	7	4	16.6	9.2	12.9	-	3.9	18	0	86	30	2.1	18	0	13.6	-	2.20	-	5	3
	21-end	43.9	-	7	6	15.6	9.5	12.5	-	6.0	25	0	82	27	3.1	25	0	13.1	-	3.99	-	6	2
	Month	87.8	91	21	16	16.6	9.7	13.2	+0.9	3.9	18	0	265	98	2.1	18	0	13.9	+0.3	2.86	76	5	7
Campile (Ballysop) Co. Wexford	1-10	5.5	/	5	2	18.1	10.6	14.4	/	6.5	03	0	100	44	3.5	03	0	/	/	/	/	3.42	/
	11-20	5.2	/	1	1	17.0	9.6	13.3	/	4.8	17	0	89	33	1.2	17	0	/	/	/	/	3.77	/
	21-end	6.6	/	4	2	16.3	10.0	13.2	/	6.8	30	0	88	32	3.6	25	0	/	/	/	/	4.85	/
	Month	17.3	/	10	5	17.1	10.1	13.6	/	4.8	17	0	277	109	1.2	17	0	/	/	/	/	4.01	/
Clonroche Co. Wexford	1-10	5.0	/	3	2	18.6	9.3	14.0	/	5.5	02	0	96	40	/	/	/	/	/	/	/	4.83	3
	11-20	6.5	/	1	1	16.8	8.4	12.6	/	4.2	12	0	82	26	NA	NA	/	/	/	/	3.77	3	
	21-end	7.8	/	5	3	16.3	8.6	12.4	/	5.1	25	0	81	25	NA	NA	/	/	/	/	4.51	4	
	Month	19.3	/	9	6	17.2	8.7	13.0	/	4.2	12	0	259	91	/	/	/	/	/	/	4.37	3	
Johnstown Castle Co. Wexford	1-10	2.4	-	3	1	17.3	10.8	14.2	/	6.8	04	0	97	41	2.5	04	0	/	/	/	/	3.52	2
	11-20	5.6	-	2	1	17.0	10.1	13.6	/	6.0	18	0	92	36	1.4	12	0	/	/	/	/	4.65	2
	21-end	6.0	-	6	2	15.7	10.3	13.0	/	6.5	30	0	86	30	3.0	30	0	/	/	/	/	4.96	3
	Month	14.0	14	11	4	16.7	10.4	13.5	/	6.0	18	0	275	107	1.4	12	0	/	/	/	/	4.38	2
Rosslare e Co. Wexford	1-10	3.3	-	3	1	17.3	12.4	14.8	-	9.6	02	0	104	48	3.1	04	0	16.6	-	3.75	-	5	2
	11-20	3.1	-	1	1	17.5	11.0	14.3	-	7.6	17	0	99	43	4.3	18	0	15.8	-	5.09	-	5	3
	21-end	5.7	-	6	2	16.0	10.9	13.4	-	7.5	30	0	90	34	3.6	30	0	14.3	-	5.33	-	6	3
	Month	12.1	14	10	4	16.9	11.4	14.2	+0.2	7.5	30	0	293	125	3.1	04	0	15.6	+0.7	4.72	94	5	8

Notes on the tables in January issue

TABLE 2

## SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE

SEPTEMBER 1978

STATION	PERIOD	SOLAR RADIATION	P.E. (mm)	SOIL MOISTURE (mm)		
		Amount Joule/cm <sup>2</sup>	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10		25	20	38	-
	11-20		21	14	52	-
	21-end	-	22	8	60	-
	Month		68	-	-	-
Kinsealy* Co. Dublin	1-10	11283	20	5	23	-
	11-20	10054	19	13	36	-
	21-end	10306	11	-	30	6
	Month	31643	50	-	-	-
Cahirciveen e (Valentia Obsy.) Co. Kerry	1-10	11128	13	-	0	6
	11-20	10543	14	8	8	-
	21-end	8442	15	-	4	4
	Month	30113	42	-	-	-
Kilkenny e Co. Kilkenny	1-10	12186				
	11-20	10537				
	21-end	10957				
	Month	33680				
Ballinamore Co. Leitrim	1-10		15	-	0	34
	11-20		4	-	0	7
	21-end	-	1	-	0	68
	Month		20	-	-	-
Glenamoy/ Co. Mayo	1-10		11	-	0	37
	11-20		14	-	0	9
	21-end	-	1	-	0	78
	Month		26	-	-	-
Birr e Co. Offaly	1-10	11254				
	11-20	9568				
	21-end	9571				
	Month	29358				
Johnstown Castle Co. Wexford	1-10		21	19	38	-
	11-20		19	12	50	-
	21-end	-	19	9	59	-
	Month		59	-	-	-

\*, /, See notes in January issue.