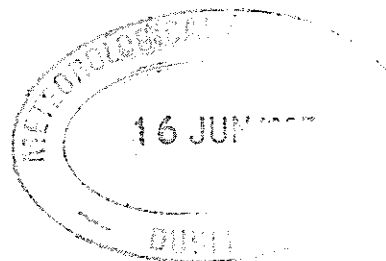


METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

MAY 1983

The Weather of May

After a wet start to the month, the period from the 2nd to 4th was mostly dry and sunny. A short spell of cloudy and less cold weather ensued with widespread rain and fresh to strong southeast winds from the 4th to 6th. Thereafter a depression to the southwest and south of Ireland, later drifting over England and North Sea, influenced conditions. The weather from the 7th to 20th incl. was changeable and showery and it became cool and rather cloudy. Hail was widespread on 9th. Showers were heavy and thundery on most days from 10th, some also with hail. East and northeast winds, which predominated to the middle of the month, subsequently backed to the north and northwest.

An improvement in weather conditions occurred on the 21st. There was but little rain, which occurred after the 22nd, mainly in the evening of the 24th and early 25th, and the weather gradually became sunny and warm. Towards the end of the month cool cloudy conditions again set in from the east, northerly winds developed, and rain occurred on the 30th and 31st.

Monthly Amounts of Precipitation were well above normal everywhere except the northwest, where amounts were below normal; parts of the southeast had exceptional amounts. Values varied from 214% of normal at JFK Park, Co. Wexford, to 91% at Malin Head; many stations received amounts exceeding 150%. The amounts were all the more exceptional in that almost all were received during the first three weeks, the contribution to the total from the last ten days being small. Moderate soil moisture deficits (approx. 15mm) had developed in many places at the end of the month. Conditions favourable to the spread of potato blight occurred from the 4th to 6th in south and east. *Rhynchosporium* and *Septoria* was favoured in cereals during the month.

Mean Monthly Air Temperature was below normal everywhere. Values varied from 1.60° below normal at Valentia to 0.70° below at Clones. Widespread ground frost rarely occurred after the 4th, being mainly confined to occasional nights in the midlands after that date. Soil temperatures at 100 mm

also varied from 1.90° below average at Shannon Airport to 0.50° above at Malin Head and Belmullet; the greatest differences from average, -2.40°, occurred between 10th and 20th. Accumulated degree days with threshold 4.4°C, varied from 83% to 90% of average, and with threshold 10°C, from 50% to 72% of average.

Mean Duration of Bright Sunshine was well below normal everywhere; Values varied from 80% of normal at Roche's Point to 51% at Claremorris. Global solar radiation was 78% of average, 1971-82, at Birr (where sunshine was 71% of the average for the same period) and 96% of average, 1969-82, at Valentia (where sunshine was 86% for the same period).

Strong winds with gale gusts occurred in southern areas on the 5th, where widespread from 9 - 12th, and occurred in some scattered areas on the 16th.

Summary A very wet, dull and cold month almost everywhere. It was the wettest spring (March to May) in parts of the midlands since 1947 and the dullest at Birr (64% of normal sunshine) since records began there in 1880.

The cold spell began on March 18th and continued to the last days of May.

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 in Table 2 will be published in the Annual Summary of Solar Radiation.

TABLE 1

MAY 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR										GROUND		SOIL (10cm)		MEAN DAILY (HRS.)	% 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	47.2	-	9	8	12.4	5.5	8.9	-	0.8	3	0	47	-	9	-	-3.7	3	3	-	-	3.11	-	4.7	-	-
	11-20	43.2	-	9	9	12.6	6.2	9.4	-	4.4	14	0	50	-	7	-	1.2	19	0	-	-	3.24	-	4.3	-	-
	21-END	12.0	-	4	2	14.4	6.8	10.6	-	5.0	27	0	68	-	17	-	0.0	25	0	-	-	4.28	-	2.8	-	-
	MONTH	102.4	160	22	19	13.1	6.2	9.7	-	0.8	3	0	165	-	33	-	-3.7	3	3	-	-	3.57	-	3.9	-	58
Shannon Airport Co. Clare	1-10	48.3	-	9	8	13.2	6.9	10.0	-	2.6	3	0	57	-	13	-	-0.8	3	1	10.8	-	3.81	-	5.4	2	-
	11-20	33.1	-	10	9	12.8	6.8	9.8	-	5.0	15	0	54	-	8	-	2.9	19	0	10.4	-	3.78	-	5.1	1	-
	21-END	7.3	-	4	2	14.9	7.3	11.1	-	4.7	28	0	74	-	21	-	2.5	22	0	12.6	-	4.71	-	3.6	0	-
	MONTH	88.7	139	23	19	13.7	7.0	10.3	-1.2	2.6	3	0	185	84	42	59	-0.8	3	1	11.3	-1.9	4.12	64	4.7	3	70
Fermoy (Coolnakilla) Co. Cork	1-10	54.0	-	9	8	10.9	4.9	7.9	-	2.0	9	0	37	-	3	-	-0.5	10	1	-	-	2.16	-	6.1	-	-
	11-20	54.8	-	10	10	11.3	4.4	7.9	-	1.7	11	0	36	-	3	-	-2.4	11	2	-	-	3.31	-	5.0	-	-
	21-END	26.8	-	6	5	13.0	5.1	9.1	-	2.7	28	0	52	-	9	-	-1.9	28	3	-	-	4.90	-	3.9	-	-
	MONTH	135.6	-	25	23	11.8	4.8	8.3	-	1.7	11	0	125	-	16	-	-2.4	11	6	-	-	3.50	-	5.0	-	51
Fermoy (Moore Park) Co. Cork	1-10	37.5	-	8	7	12.2	6.0	9.1	-	2.5	3	0	48	-	8	-	-4.7	3	4	-	-	2.12	-	N/A	-	-
	11-20	49.6	-	10	10	12.5	5.6	9.1	-	2.6	11	0	48	-	7	-	-1.9	11	3	-	-	3.42	-	N/A	-	-
	21-END	15.9	-	6	4	14.5	6.0	10.3	-	3.0	22	0	65	-	16	-	-0.9	22	3	-	-	5.19	-	N/A	-	-
	MONTH	103.0	151	24	21	13.1	5.9	9.5	-	2.5	3	0	160	-	30	-	-4.7	3	10	-	-	3.63	-	N/A	-	N/A
Mallow Co. Cork	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	-	-	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	-	-	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	-	-	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	-	-	-	-
Roches Point Co. Cork	1-10	28.0	-	8	7	11.6	6.9	9.3	-	4.1	9	0	49	-	6	-	1.3	3	0	10.6	-	3.35	-	6.8	4	-
	11-20	43.7	-	9	7	12.2	7.0	9.6	-	4.4	11	0	52	-	6	-	-0.5	15	1	11.1	-	5.89	-	5.9	2	-
	21-END	12.6	-	4	3	13.8	8.0	10.9	-	6.3	22	0	71	-	16	-	3.0	25	0	13.2	-	6.57	-	4.1	0	-
	MONTH	84.3	130	21	17	12.6	7.3	9.9	-1.4	4.1	9	0	172	86	28	57	-0.5	15	1	11.7	-1.2	5.31	80	5.5	6	74
Glencolumbkille Co. Donegal	1-10	66.5	-	8	8	12.7	5.8	9.3	-	3.5	10	0	49	-	10	-	-0.6	3	1	-	-	4.14	-	3.6	-	-
	11-20	26.9	-	9	5	12.8	6.9	9.9	-	5.5	15	0	55	-	9	-	N/A	N/A	N/A	-	-	2.84	-	3.6	-	-
	21-END	10.9	-	6	5	13.1	7.1	10.1	-	4.0	23	0	63	-	12	-	N/A	N/A	N/A	-	-	4.04	-	2.8	-	-
	MONTH	104.3	-	23	18	12.9	6.6	9.8	-	3.5	10	0	167	-	31	-	N/A	N/A	N/A	-	-	3.68	-	3.3	-	59

TABLE 1 (CONTINUED)

MAY 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENMAN) (mm)		
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR								GROUND				SOIL (10cm)		MEAN DAILY (HRS.)	% 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	58.2	-	8	6	13.1	5.1	9.1	-	-0.3	3	1	50	-	11	-	-5.2	3	4	-	-	2.80	-	-	-	-
	11-20	22.0	-	8	7	13.0	6.2	9.6	-	4.2	15	0	52	-	9	-	-1.8	15	2	-	-	1.90	-	-	-	-
	21-END	13.8	-	7	6	13.8	5.8	9.8	-	1.5	26	0	61	-	15	-	-4.0	26	4	-	-	4.17	-	-	-	-
	MONTH	94.0	106	23	19	13.4	5.7	9.5	-	-0.3	3	1	163	-	35	-	-5.2	3	10	-	-	3.00	-	-	-	-
Malin Head Co. Donegal	1-10	15.0	-	7	4	11.8	6.6	9.2	-	4.3	3	0	48	-	6	-	-1.4	3	1	12.3	-	4.85	-	6.6	4	-
	11-20	29.6	-	6	4	11.3	7.1	9.2	-	5.5	15	0	48	-	4	-	1.1	18	0	11.7	-	4.70	-	7.4	4	-
	21-END	8.3	-	6	3	12.0	7.6	9.8	-	5.6	22	0	59	-	8	-	0.9	23	0	13.6	-	5.29	-	5.8	0	-
	MONTH	52.9	91	19	11	11.7	7.1	9.4	-0.8	4.3	3	0	155	89	18	50	-1.4	3	1	12.6	+0.5	4.96	74	6.6	8	75
Casement Aerodrome Co. Dublin	1-10	53.0	-	9	8	12.8	5.4	9.1	-	1.0	4	0	49	-	11	-	-3.0	4	2	9.8	-	3.23	-	5.9	3	-
	11-20	34.1	-	8	8	13.0	5.5	9.2	-	3.5	15	0	49	-	8	-	0.1	15	0	10.1	-	4.10	-	5.7	4	-
	21-END	13.2	-	6	3	14.1	6.1	10.1	-	3.1	26	0	63	-	15	-	-1.0	23	3	12.3	-	4.13	-	3.1	0	-
	MONTH	100.3	167	23	19	13.3	5.7	9.5	-1.1	1.0	4	0	161	86	34	62	-3.0	4	5	10.8	-	3.83	59	4.8	7	63
Dublin Airport Co. Dublin	1-10	48.3	-	9	7	11.8	6.0	8.9	-	2.6	3	0	46	-	6	-	-0.6	1	1	10.3	-	3.74	-	5.8	3	-
	11-20	26.5	-	7	6	12.7	7.0	9.9	-	5.4	11	0	55	-	8	-	1.9	14	0	11.3	-	5.18	-	5.3	3	-
	21-END	5.7	-	4	2	13.7	6.9	10.3	-	4.4	27	0	65	-	14	-	1.9	23	0	13.7	-	4.61	-	3.5	0	-
	MONTH	80.5	130	20	15	12.8	6.6	9.7	-0.9	2.6	3	0	165	85	28	54	-0.6	1	1	11.8	-1.1	4.51	70	4.8	6	69
Kinsealy Co. Dublin	1-10	36.2	-	8	7	11.7	5.3	8.5	-	1.5	4	0	43	-	6	-	-2.6	4	3	-	-	3.40	-	4.4	-	-
	11-20	30.4	-	7	7	12.5	6.4	9.5	-	4.0	14	0	51	-	7	-	0.8	11	0	-	-	4.91	-	4.2	-	-
	21-END	5.5	-	4	2	13.5	6.4	9.9	-	3.7	27	0	61	-	12	-	1.2	27	0	-	-	4.24	-	2.7	-	-
	MONTH	72.1	122	19	16	12.6	6.0	9.3	-	1.5	4	0	155	-	24	-	-2.6	4	3	-	-	4.18	-	3.7	-	60
Galway Co. Galway	1-10	37.8	-	9	7	13.1	6.4	9.7	-	1.9	3	0	54	-	12	-	-2.0	3	1	11.7	-	5.25	-	5.4	2	-
	11-20	48.2	-	9	7	12.5	7.2	9.9	-	5.0	15	0	55	-	8	-	3.1	15	0	11.5	-	4.06	-	5.3	0	-
	21-END	3.5	-	3	1	14.5	7.2	10.9	-	5.0	21	0	71	-	19	-	1.6	25	0	13.6	-	4.60	-	3.6	0	-
	MONTH	89.5	119	21	15	13.4	7.0	10.2	-1.2	1.9	3	0	180	-	38	-	-2.0	3	1	12.3	-	4.64	70	4.7	2	70
Killarney (Muckross House) Co. Kerry	1-10	87.1	-	9	7	12.0	6.9	9.5	-	2.8	3	0	51	-	9	-	-2.0	3	1	-	-	2.18	-	-	-	-
	11-20	59.4	-	10	7	12.1	6.1	9.1	-	4.3	15	0	47	-	5	-	-1.0	14	2	-	-	2.83	-	-	-	-
	21-END	11.6	-	6	3	14.0	6.7	10.3	-	3.4	28	0	66	-	16	-	-0.8	29	3	-	-	2.96	-	-	-	-
	MONTH	158.1	-	25	17	12.7	6.5	9.6	-	2.8	3	0	164	-	30	-	-2.0	3	6	-	-	2.67	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

MAY 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND				SOIL (10cm)			MEAN DAILY (HRS.)	% 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 ^e (Valentia Obsy.) Co. Kerry	1-10	46.5	-	8	7	13.2	6.5	9.9	-	2.0	3	0	56	-	12	-	0.0	3	0	11.6	-	4.13	-	6.1	4	-
	11-20	62.4	-	10	9	12.2	6.4	9.3	-	3.5	16	0	50	-	6	-	1.1	16	0	10.9	-	3.69	-	5.5	2	-
	21-END	10.0	-	4	4	14.0	6.7	10.4	-	4.6	22	0	66	-	15	-	0.8	28	0	13.4	-	5.95	-	3.5	0	-
	MONTH	118.9	134	22	20	13.2	6.6	9.9	-1.6	2.0	3	0	171	83	33	58	0.0	3	0	12.0	-1.2	4.64	71	5.0	6	68
Ardfert (Liscahane) Co. Kerry	1-10	33.3	-	7	7	12.6	5.8	9.2	-	1.2	3	0	50	-	10	-	-1.9	3	2	-	-	3.69	-	-	-	-
	11-20	31.1	-	10	8	12.5	5.4	9.0	-	2.7	18	0	47	-	7	-	-0.4	18	1	-	-	3.67	-	-	-	-
	21-END	10.3	-	5	2	14.2	5.1	9.6	-	0.6	28	0	59	-	14	-	-2.4	28	1	-	-	4.80	-	-	-	-
	MONTH	74.7	-	22	17	13.1	5.4	9.3	-	0.6	28	0	156	-	31	-	-2.4	28	4	-	-	4.08	-	-	-	-
Lullymore Co. Kildare	1-10	29.9	-	9	8	12.3	5.1	8.7	-	-1.0	4	2	46	-	9	-	-4.5	4	3	-	-	2.72	-	4.3	-	-
	11-20	41.8	-	10	10	12.4	5.2	8.8	-	2.5	19	0	45	-	6	-	-1.5	19	1	-	-	3.01	-	4.2	-	-
	21-END	9.6	-	3	3	14.4	5.3	9.8	-	1.5	27	0	61	-	15	-	-0.3	27	2	-	-	3.43	-	2.4	-	-
	MONTH	81.3	121	22	21	13.1	5.2	9.1	-	-1.0	4	2	152	-	30	-	-4.5	4	6	-	-	3.06	-	3.6	-	51
Kilkenny ^e Co. Kilkenny	1-10	49.4	-	8	8	12.4	5.7	9.0	-	0.9	3	0	48	-	9	-	-3.9	3	2	10.4	-	2.96	-	4.2	2	-
	11-20	58.5	-	10	9	12.5	6.0	9.3	-	3.0	14	0	49	-	7	-	-1.2	19	2	10.6	-	3.44	-	3.9	0	-
	21-END	5.8	-	5	1	14.3	6.5	10.4	-	4.5	25	0	66	-	16	-	-1.7	25	2	13.3	-	4.46	-	2.3	0	-
	MONTH	113.7	178	23	18	13.1	6.1	9.6	-1.5	0.9	3	0	164	83	32	53	-3.9	3	6	11.5	-1.5	3.65	56	3.4	2	58
Mooncoin (Silverspring) Co. Kilkenny	1-10	60.3	-	8	7	12.1	6.1	9.1	-	1.6	4	0	49	-	9	-	-2.4	4	2	-	-	2.87	-	-	-	-
	11-20	55.0	-	10	9	12.8	6.0	9.4	-	2.4	11	0	51	-	8	-	-1.5	11	3	-	-	3.76	-	-	-	-
	21-END	12.7	-	4	3	14.5	6.5	10.5	-	4.2	27	0	67	-	17	-	-0.1	27	1	-	-	4.50	-	-	-	-
	MONTH	128.0	178	22	19	13.2	6.2	9.7	-	1.6	4	0	166	-	33	-	-2.4	4	6	-	-	3.74	-	-	-	-
Ballinamore Co. Leitrim	1-10	46.6	-	8	8	13.0	5.0	9.0	-	-0.7	3	1	49	-	10	-	-5.4	3	2	-	-	3.58	-	3.0	-	-
	11-20	84.9	-	8	7	12.9	6.5	9.7	-	5.0	12	0	53	-	9	-	2.5	12	0	-	-	1.88	-	3.0	-	-
	21-END	8.7	-	5	3	14.3	5.7	10.0	-	1.7	23	0	63	-	16	-	-2.1	23	2	-	-	3.96	-	2.1	-	-
	MONTH	140.2	187	21	18	13.5	5.7	9.6	-	-0.7	3	1	164	-	35	-	-5.4	3	4	-	-	3.17	-	2.7	-	54
Ardee (Boharnamoe) Co. Louth	1-10	34.0	-	9	7	12.7	4.6	8.6	-	0.3	3	0	46	-	9	-	-1.9	4	2	-	-	-	-	-	-	-
	11-20	51.9	-	10	9	13.1	6.3	9.7	-	3.9	11	0	53	-	8	-	0.9	15	0	-	-	-	-	-	-	-
	21-END	4.5	-	4	2	15.0	4.9	10.0	-	1.5	23	0	63	-	17	-	-1.5	23	1	-	-	-	-	-	-	-
	MONTH	90.4	-	23	18	13.7	5.2	9.4	-	0.3	3	0	162	-	34	-	-1.9	4	3	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

MAY 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND				
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR							GROUND			SOIL (10cm)				MEAN DAILY (HRS.)	% 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	55.9	-	9	7	13.0	3.6	8.3	-	-1.8	3	2	43	-	10	-	-5.1	3	3	-	-	3.53	-	3.4	-	-
	11-20	53.1	-	9	9	12.4	5.3	8.8	-	3.2	15	0	45	-	6	-	0.1	15	0	-	-	2.64	-	3.4	-	-
	21-END	3.1	-	4	1	14.5	5.3	9.9	-	2.9	25	0	62	-	16	-	-3.5	22	5	-	-	3.83	-	2.3	-	-
	MONTH	112.1	132	22	17	13.3	4.7	9.0	-	-1.8	3	2	150	-	32	-	-5.1	3	8	-	-	3.35	-	3.0	-	45
Belmullet Co. Mayo	1-10	35.5	-	7	6	12.8	5.8	9.3	-	2.7	3	0	49	-	10	-	-0.8	3	2	11.2	-	3.30	-	6.0	2	-
	11-20	47.4	-	10	9	13.0	7.0	10.0	-	5.2	11	0	56	-	9	-	3.9	15	0	11.7	-	4.85	-	6.8	1	-
	21-END	4.9	-	4	3	13.5	7.3	10.4	-	5.4	21	0	66	-	14	-	2.6	25	0	13.3	-	3.36	-	5.0	0	-
	MONTH	87.8	131	21	18	13.1	6.7	9.9	-1.1	2.7	3	0	171	90	33	72	-0.8	3	2	12.1	-0.5	3.82	56	5.9	3	65
Claremorris Co. Mayo	1-10	41.8	-	7	6	13.1	5.3	9.2	-	0.7	4	0	50	-	11	-	-3.1	3	2	10.4	-	3.28	-	5.5	2	-
	11-20	39.7	-	9	9	12.2	6.0	9.1	-	2.9	15	0	47	-	6	-	-1.0	15	1	10.3	-	2.41	-	5.5	1	-
	21-END	3.0	-	3	1	14.3	6.0	10.1	-	2.7	25	0	64	-	15	-	-0.8	25	1	12.2	-	3.51	-	4.2	0	-
	MONTH	84.5	116	19	16	13.2	5.7	9.5	-1.0	0.7	4	0	161	87	32	62	-3.1	3	4	11.0	-1.0	3.08	51	5.0	3	57
Glenamoy Co. Mayo	1-10	35.9	-	8	5	12.9	4.3	8.6	-	-0.8	3	1	45	-	10	-	-3.0	3	3	-	-	2.87	-	2.7	-	-
	11-20	43.6	-	9	9	13.2	6.6	9.9	-	4.6	15	0	55	-	10	-	1.7	15	0	-	-	4.08	-	N/A	-	-
	21-END	7.2	-	6	4	13.6	6.9	10.3	-	4.9	22	0	65	-	14	-	2.8	27	0	-	-	2.00	-	N/A	-	-
	MONTH	86.7	102	23	18	13.3	6.0	9.6	-	-0.8	3	1	165	-	34	-	-3.0	3	3	-	-	2.95	-	N/A	-	N/A
Dunsany (Grange) Co. Meath	1-10	46.6	-	8	8	12.1	4.9	8.5	-	-0.6	3	1	43	-	8	-	-6.5	3	3	-	-	3.04	-	-	-	-
	11-20	43.0	-	10	8	12.6	5.6	9.1	-	3.7	14	0	47	-	7	-	-0.5	19	1	-	-	3.52	-	-	-	-
	21-END	8.5	-	4	3	13.9	5.5	9.7	-	2.9	26	0	59	-	13	-	-2.0	23	4	-	-	3.95	-	-	-	-
	MONTH	98.1	153	22	19	12.9	5.3	9.1	-	-0.6	3	1	150	-	27	-	-6.5	3	8	-	-	3.52	-	-	-	-
Clones Co. Monaghan	1-10	28.3	-	8	7	13.3	5.5	9.4	-	1.7	3	0	51	-	11	-	-3.4	3	1	10.4	-	3.95	-	3.2	1	-
	11-20	42.1	-	7	6	13.0	6.4	9.7	-	5.2	12	0	53	-	9	-	4.1	11	0	10.9	-	3.52	-	4.3	1	-
	21-END	4.8	-	3	2	14.3	6.4	10.4	-	2.8	23	0	66	-	17	-	-1.2	26	1	12.1	-	4.85	-	2.6	0	-
	MONTH	75.2	109	18	15	13.5	6.1	9.8	-0.7	1.7	3	0	170	91	37	70	-3.4	3	2	11.1	-1.2	4.13	71	3.4	2	65
Birr Co. Offaly	1-10	58.8	-	9	7	12.6	5.8	9.2	-	0.3	3	0	49	-	10	-	-3.0	3	2	10.9	-	3.01	-	3.2	1	-
	11-20	57.3	-	10	9	12.8	6.1	9.4	-	3.5	14	0	50	-	7	-	-0.8	14	1	11.0	-	3.57	-	3.2	1	-
	21-END	4.9	-	3	1	14.7	6.1	10.4	-	2.9	26	0	66	-	17	-	-1.4	26	1	13.5	-	4.45	-	1.5	0	-
	MONTH	121.0	183	22	17	13.4	6.0	9.7	-1.3	0.3	3	0	166	84	34	58	-3.0	3	4	11.8	-1.2	3.70	59	2.6	2	56

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NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

MAY 1983

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND		P.E. (PENYMAN) (mm)															
		AMOUNT	% OF AVERAGE	RAIN DAYS	WET DAYS	AIR								GROUND				SOIL (10cm)		MEAN DAILY (HRS.)	% 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													
																											MEAN DAILY (HRS.)	% OF AVERAGE											
Dundrum (Knockavilla) Co. Tipperary	1-10	46.1	-	8	8	12.4	5.5	8.9	-	0.5	4	0	48	-	9	-	-4.0	4	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	47.0	-	10	10	12.3	3.1	7.7	-	-0.6	17	2	38	-	6	-	-6.5	17	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	11.8	-	6	4	14.9	5.9	10.4	-	3.9	31	0	66	-	18	-	-2.8	27	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	104.9	-	24	22	13.3	4.9	9.1	-	-0.6	17	2	152	-	33	-	-6.5	17	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dungarvan (Carriglea) Co. Waterford	1-10	59.1	-	9	7	12.4	6.2	9.3	-	2.0	3	0	50	-	9	-	0.4	3	0	-	-	2.88	-	3.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	52.5	-	10	10	12.8	6.0	9.4	-	3.0	11	0	50	-	8	-	1.2	11	0	-	-	4.64	-	3.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	22.2	-	4	3	14.8	6.3	10.6	-	4.5	22	0	68	-	18	-	3.5	25	0	-	-	5.35	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	133.8	176	23	20	13.4	6.1	9.8	-	2.0	3	0	167	-	34	-	0.4	3	0	-	-	4.32	-	2.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Mullingar Co. Westmeath	1-10	54.2	-	8	8	12.6	5.2	8.9	-	0.8	3	0	47	-	9	-	-1.4	3	2	10.3	-	3.82	-	4.6	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	54.0	-	10	7	12.5	6.4	9.4	-	5.2	11	0	50	-	6	-	2.8	14	0	10.2	-	3.55	-	4.8	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	5.6	-	4	2	14.2	6.1	10.2	-	4.2	23	0	64	-	15	-	1.1	26	0	12.3	-	4.30	-	3.0	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	113.8	163	22	17	13.2	5.9	9.5	-0.9	0.8	3	0	162	85	30	53	-1.4	3	2	11.0	-1.4	3.90	63	4.1	3	62	-	-	-	-	-	-	-	-	-	-	-	-	-
J.F.K. Park Co. Wexford	1-10	58.8	-	8	8	11.6	6.5	9.0	-	3.2	3	0	47	-	6	-	-3.1	3	1	-	-	2.94	-	5.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	76.4	-	9	8	12.3	6.3	9.3	-	3.2	11	0	49	-	6	-	-2.6	11	1	-	-	3.99	-	5.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	12.7	-	3	3	14.2	6.7	10.4	-	6.0	31	0	66	-	15	-	0.6	27	0	-	-	4.92	-	2.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	147.9	214	20	19	12.8	6.5	9.6	-	3.2	11	0	162	-	27	-	-3.1	3	2	-	-	3.98	-	4.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Clonroche Co. Wexford	1-10	71.9	-	9	7	11.8	6.0	8.9	-	1.7	3	0	46	-	7	-	-5.4	4	4	-	-	3.02	-	2.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	53.4	-	10	8	11.9	5.5	8.7	-	2.6	11	0	44	-	5	-	-3.7	19	3	-	-	4.07	-	2.7	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	12.1	-	4	3	14.2	6.4	10.3	-	4.6	27	0	65	-	15	-	-2.3	27	6	-	-	4.63	-	1.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	137.4	162	23	18	12.7	6.0	9.3	-	1.7	3	0	155	-	27	-	-5.4	4	13	-	-	3.93	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Johnstown Castle Co. Wexford	1-10	60.5	-	9	6	11.6	6.1	8.8	-	2.3	3	0	45	-	7	-	-2.8	4	2	-	-	3.20	-	5.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	45.7	-	7	6	12.0	6.1	9.0	-	4.2	11	0	46	-	5	-	-0.4	11	1	-	-	5.13	-	5.3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	11.0	-	4	4	13.5	7.1	10.3	-	5.6	30	0	65	-	13	-	0.0	30	0	-	-	5.55	-	2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	117.2	161	20	16	12.4	6.4	9.4	-	2.3	3	0	156	-	24	-	-2.8	4	3	-	-	4.65	-	4.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Rosslare Co. Wexford	1-10	59.4	-	9	8	11.7	7.3	9.5	-	4.1	9	0	51	-	7	-	1.3	3	0	11.0	-	4.16	-	6.2	3	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	41.5	-	7	6	11.9	7.1	9.5	-	4.6	11	0	51	-	5	-	1.3	11	0	11.4	-	6.69	-	7.0	4	-	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	7.0	-	5	2	13.1	8.1	10.6	-	7.3	21	0	68	-	12	-	1.0	27	0	14.1	-	6.07	-	3.7	0	-	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	107.9	169	21	16	12.3	7.5	9.9	-1.3	4.1	9	0	171	88	25	58	1.0	27	0	12.2	-1.1	5.65	76	5.6	7	73	-	-	-	-	-	-	-	-	-	-	-	-	

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	17128
	11-20	17194
	21-end	19852
	Month	44174
Dublin Airport Co. Dublin	1-10	12116
	11-20	15117
	21-end	17377
	Month	44610
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	15090
	11-20	15174
	21-end	20187
	Month	50451
Kilkenny Co. Kilkenny	1-10	11585
	11-20	13374
	21-end	17244
	Month	42203
Belmullet Co. Mayo	1-10	14586
	11-20	16324
	21-end	18376
	Month	49286
Clones Co. Monaghan	1-10	14350
	11-20	14097
	21-end	18048
	Month	46495
Birr Co. Offaly	1-10	11750
	11-20	12360
	21-end	16142
	Month	40252

TABLE 3 POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE May 198

STATION	PERIOD	SOIL MOISTURE (mm)			
		P.E. (mm)	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	9.3	-	0	38
	11-20	9.2	-	0	34
	21-end	28.4	16	16	-
	Month	46.9	-	-	-
Kinsealy Co. Dublin	1-10	9.1	-	0	27
	11-20	13.7	-	0	17
	21-end	29.4	24	24	-
	Month	52.2	-	-	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	19.6	-	0	26
	11-20	2.6	-	0	59
	21-end	17.4	6	6	-
	Month	39.6	-	-	-
Ballinamore Co. Leitrim	1-10	19.1	-	0	30
	11-20	10.4	-	0	75
	21-end	18.8	10	10	-
	Month	48.3	-	-	-
Glenamoy Co. Mayo	1-10	17.7	-	0	18
	11-20	13.9	-	0	30
	21-end	26.8	20	20	-
	Month	58.4	-	-	-
Johnstown Castle Co. Wexford	1-10	13.0	-	0	48
	11-20	16.2	-	0	30
	21-end	26.3	15	15	-
	Month	55.5	-	-	-

Notes on the tables in January issue

special topic

THE COMMISSION FOR AGRICULTURAL METEOROLOGY

The eight session of the Commission for Agricultural Meteorology, CAgM VIII, was held in Geneva from February 21 to March 4, 1983. Forty nine countries representing all continents, as well as many international organisations providing support programmes to developing countries, attended. In his welcoming address, Dr. Wiin-Nielsen, the Secretary-General of the World Meteorological Organisation (WMO), noted the consistently high quality of the work of CAgM members and hoped that the current session would discuss and propose a programme that would help improve agricultural production.

NATIONAL REPORTS

Prior to the session each Meteorological Service submitted a National Progress Report on the agrometeorological changes, developments and research that had taken place between the seventh and eighth sessions, 1979 to 1982. The Irish report compared favourably with that submitted by many other developed countries, reflecting the substantial research and development effort being undertaken by organisations such as the Agricultural Institute, University Departments as well as the Meteorological Service on the various weather effects on agricultural production in this country.

CROP AND ANIMAL WELFARE

Ireland had a particular interest in the topic on the effects of weather on crop and animal production and protection, as Mr. Dermot O'Brien of the Veterinary Research Laboratory, Department of Agriculture, had contributed to a report of the previous session on Weather and Animal Health, which is to be published shortly. The commission now proposes to study meteorology and storage and transport of agricultural produce, air pollution and plant injury, aspects of forage provision and animal production and has invited Dr. Tony Brereton of the Agricultural Institute, Johnstown Castle Research Centre, to contribute to this study.

DEVELOPING COUNTRIES

The transfer of knowledge and techniques to Developing Countries is also to be studied and the requirements for the application of meteorology to agriculture is to be defined for the next meeting. The "AGRHYMET" pilot programme - a multi-disciplinary farm level advisory programme - has completed its initial phase in some countries in Africa, in particular in Mali. The operational phase is now underway with the issue of daily bulletins and warnings and advise on daily farming operations to be broadcast to the users on radio. Field tests in Mali show an increase in production of 20-30% where advise is implemented.

POTATO CROP PROTECTION

Since the early days of the Commission, during the 1950's, the meteorological aspects affecting the potato crop both in respect to blight and pests have been studied. That international initiative was taken by concerned workers such as Dr. Austin Bourke, former Director of the Meteorological Service, who studied the subject extensively. The Commission is now to renew and update the work and to survey all the existing knowledge on the meteorological factors which affect the growth, development, yield and storage of the potato crop, aspects of disease and pests, and to review current forecasting methods as well as their economic importance. Because of the importance of this crop to Ireland, the findings of the ambitious study will be of particular interest here.

ECONOMIC FACTORS

In the current climate of economic accountability it is little wonder that National Meteorological Services, who in common with other services are increasingly under pressure to contain or reduce costs, are concerned with the economic benefits to be derived from their forecast services. In particular the Commission has asked Agrometeorological Services to undertake a close examination of the specialised services they provide. Mr T. Keane, Meteorological Service, has been nominated as joint rapporteur on this topic to survey the literature on the subject and to formulate proposals on suitable methods for future quantitative studies.

COOPERATION WITH EXTENSION SERVICES

While the session laid great emphasis on the needs of developing countries, delegates were equally aware of the need to continue to improve the transfer of agrometeorological knowledge within developed countries to the farm level. Closer cooperation with the Agricultural Institutes and the Advisory Services (Extension Services) was necessary. A working paper was agreed to on the objectives of the Commission for the next decades, drawing together areas in which the Commission should pursue. These objectives will be the subject of the special topic in the next issue.

(to be continued)