

Meteorological Service



AGROMETEOROLOGICAL BULLETIN

The Weather of June 1989

Summary

- 1st- 7th* : High pressure to west - changeable in northwest winds.
8th- 13th : High declines - frontal waves in southerly airflow.
14th - 24th : High dominant - bright, warm and settled
25th - end : High declines - changeable , active rainbelts.
Month : Bright, warm and regionally variable rainfall amounts .

Meteorological Situation

The month began with high pressure in the Atlantic, west of Ireland - extending ridges over Ireland gave way to troughs moving southeastwards over Ireland on 2nd, 4th and 5th; a fresh to strong north to northeast airflow on 6th was followed by a further ridge on 7th. The Atlantic high declined southwards and more extensive troughs reached Ireland on the 8th and 9th. With the development of a Scandanavian High pressure cell, a freshening moist southerly airflow and frontal troughs affected the country and these became thundery on 12th/13th. Subsequently the Azores and Scandanavian high pressure cells integrated across Ireland and rainbelts retreated to the northwest - bright, warm and settled conditions prevailed to 24th. By then the combined high centre had retreated southwestwards into the Atlantic and a westerly airflow brought an active frontal rainbelt to the country on 25th/26th, a humid wet spell on 28th, and a frontal depression on 30th.

Precipitation

Amounts were very variable over the country. Values varied from 179% of normal at Killarney (Muckcross) to 56% at Ballinamore. Wet day spells occurred up to 13th and from 25th. The wet spells favoured Septoria and Fusarium in cereals , the thundery trough favoured Brown Rust and potato blight and the fine spell favoured Mildew. A potato blight warning was issued on 26th.

Sunshine and Radiation

Bright sunshine hours were above normal varying from 126% at Shannon Airport to 94% at Belmullet. Global radiation varied from 117% of normal at Dublin Airport to 106% of normal at Kilkenny.

Temperature

Mean air temperature varied from 0.5°C above normal at Shannon Airport and Clones to normal at Rosslare. Daily maximum values were very high particularly in the fine spell when values of 25°C were recorded in some places on 18th/19th. Air frost was absent during the month and lowest ground temperature of -5.2°C was recorded at J.F.K Park Wexford on the 2nd of June.

Wind

Strong winds with gale gusts occurred on 11th/12th,25th,27th/28th (!).

NOTE: The data contained in this bulletin are provisional . Some of the material in Table 1 will *Annual Sub.* be published in its final form in the monthly Weather Report; final values of Global Radiation at *£ 20.00* stations in Table 2 will be published in the annual Solar Radiation Observations

TABLE 1

JUNE 1989

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	16.7	-	6	5	14.6	6.0	10.3	-	2.5	1	0	60	-	15	-	0.0	1	0	-	-	27.9	-	0.8	-	-
	11-20	23.0	-	2	2	22.4	10.8	16.6	-	7.2	15	0	122	-	68	-	3.0	14	0	-	-	102.5	-	2.4	-	-
	21-END	29.8	-	6	4	19.2	9.5	14.4	-	7.2	29	0	100	-	46	-	5.0	29	0	-	-	61.8	-	3.5	-	-
	MONTH	69.5	142	14	11	18.7	8.8	13.7	-	2.5	1	0	281	-	129	-	0.0	1	0	-	-	192.2	-	2.2	-	N/A
Shannon Airport Co. Clare	1-10	30.5	-	6	4	15.8	7.7	11.8	-	4.0	7	0	74	-	24	-	-3.7	7	2	15.1	-	46.5	-	4.5	1	-
	11-20	2.4	-	2	2	22.5	12.5	17.5	-	9.2	15	0	131	-	75	-	0.5	15	0	19.4	-	92.9	-	3.1	0	-
	21-END	23.8	-	6	5	18.4	10.9	14.6	-	7.3	22	0	102	-	48	-	2.9	22	0	18.4	-	73.1	-	4.7	1	-
	MONTH	56.7	96	14	11	18.9	10.3	14.6	+0.5	4.0	7	0	307	101	147	111	-3.7	7	2	17.6	+1.1	212.5	126	4.1	2	108
Cork Airport Co. Cork	1-10	40.7	-	7	6	14.2	6.7	10.5	-	4.2	7	0	61	-	14	-	1.4	2	0	14.0	-	49.9	-	6.2	2	-
	11-20	6.7	-	2	2	20.0	11.8	15.9	-	9.1	14	0	115	-	59	-	2.9	14	0	18.2	-	99.1	-	4.7	1	-
	21-END	13.6	-	4	4	18.4	9.7	14.0	-	8.6	22	0	96	-	42	-	3.8	24	0	18.3	-	83.9	-	5.8	1	-
	MONTH	61.0	95	13	12	17.5	9.4	13.5	+0.4	4.2	7	0	272	101	115	112	1.4	2	0	16.8	+1.5	232.9	125	5.6	4	112
Fermoy (Coolnakilla) Co. Cork	1-10	36.5	-	7	6	13.8	5.8	9.8	-	2.9	7	0	54	-	12	-	-0.2	8	1	-	-	36.4	-	N/A	-	-
	11-20	8.4	-	2	2	20.3	11.2	15.7	-	8.3	15	0	113	-	58	-	2.1	14	0	-	-	93.3	-	N/A	-	-
	21-END	18.1	-	4	4	18.0	8.5	13.3	-	7.5	23	0	89	-	36	-	1.2	26	0	-	-	71.1	-	N/A	-	-
	MONTH	63.0	-	13	12	17.3	8.5	12.9	-	2.9	7	0	256	-	106	-	-0.2	8	1	-	-	136.6	-	N/A	-	N/A
Fermoy (Moore Park) Co. Cork	1-10	29.4	-	6	5	15.5	6.6	11.1	-	3.5	7	0	67	-	20	-	-3.0	2	4	-	-	47.8	-	3.4	-	-
	11-20	3.8	-	2	2	21.8	9.8	15.8	-	4.7	14	0	114	-	61	-	-3.5	14	3	-	-	97.2	-	2.4	-	-
	21-END	21.0	-	5	5	19.4	9.2	14.3	-	5.6	23	0	99	-	46	-	-1.6	23	2	-	-	76.7	-	3.4	-	-
	MONTH	54.2	99	13	12	18.9	8.5	13.7	-	3.5	7	0	280	-	127	-	-3.5	14	9	-	-	221.7	-	3.0	-	116
Roches Point Co. Cork	1-10	20.6	-	5	4	15.2	8.5	11.9	-	6.0	7	0	75	-	23	-	3.8	7	0	14.5	-	48.4	-	6.7	3	-
	11-20	2.5	-	2	2	19.0	12.1	15.6	-	9.8	14	0	112	-	56	-	4.2	14	0	18.2	-	102.3	-	4.2	1	-
	21-END	13.1	-	4	3	18.3	11.1	14.7	-	10.0	27	0	103	-	47	-	5.9	24	0	17.9	-	87.2	-	6.4	2	-
	MONTH	36.2	72	11	9	17.5	10.6	14.0	+0.4	6.0	7	0	289	102	125	112	3.8	7	0	16.9	+0.9	237.9	124	5.8	6	117
Glencolumbkille Co. Donegal	1-10	69.1	-	10	8	13.8	7.0	10.4	-	4.5	1	0	60	-	13	-	N/A	N/A	-	-	N/A	-	3.2	-	-	-
	11-20	12.8	-	4	2	19.3	10.9	15.1	-	9.0	20	0	107	-	51	-	0.0	0	N/A	-	-	N/A	-	2.5	-	-
	21-END	42.7	-	8	5	14.9	9.8	12.3	-	8.5	30	0	79	-	24	-	N/A	N/A	-	-	N/A	-	3.8	-	-	-
	MONTH	124.6	-	22	15	16.0	9.2	12.6	-	4.5	1	0	246	-	89	-	N/A	N/A	-	-	N/A	-	3.1	-	N/A	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 1 (CONTINUED)

STATION	PERIOD	RAINFALL (mm)				TEMPERATURE (°C)														BRIGHT SUNSHINE		WIND							
		AMOUNT	% OF AVERAGE	RAIN DAYS		AIR							GROUND		SOIL (10cm)		TOTAL NO. OF HOURS	% OF AVERAGE	MEAN SPEED (ms ⁻¹)	DAYS WITH GALE GUSTS	P.E. (PENMAN) (mm)								
				WET	DAYS	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	39.7	-	7	5	14.6	5.2	9.9	-	0.1	1	0	58	-	16	-	-4.4	8	6	-	-	-	-	-	-	-	-	-	
	11-20	11.2	-	3	2	20.6	9.4	15.0	-	4.9	16	0	106	-	53	-	-0.6	15	2	-	-	-	-	-	-	-	-	-	
	21-END	51.3	-	8	6	14.9	9.8	12.3	-	7.5	29	0	79	-	25	-	-0.2	29	1	-	-	-	-	-	-	-	-	-	
	MONTH	102.2	111	18	13	16.7	8.1	12.4	-	0.1	1	0	243	-	94	-	-4.4	8	9	-	-	-	-	-	-	-	-	-	-
Malin Head Co. Donegal	1-10	18.5	-	6	6	12.5	7.5	10.0	-	2.6	8	0	57	-	9	-	1.0	8	0	14.2	-	71.4	-	6.4	0	-	-	-	
	11-20	0.7	-	2	0	18.7	11.4	15.0	-	6.5	15	0	106	-	51	-	4.5	15	0	19.2	-	86.0	-	5.1	2	-	-	-	
	21-END	31.5	-	6	5	14.4	10.1	12.2	-	7.6	30	0	78	-	24	-	4.7	30	0	15.5	-	27.6	-	7.6	4	-	-	-	
	MONTH	50.7	71	14	11	15.2	9.7	12.4	-0.2	2.6	8	0	241	93	84	94	1.0	8	0	16.3	+1.2	185.0	102	6.3	6	93	-	-	
Casement Aerodrome Co. Dublin	1-10	7.8	-	6	4	14.4	5.3	9.8	-	0.7	1	0	57	-	15	-	-1.5	4	2	13.3	-	36.2	-	3.9	1	-	-	-	
	11-20	21.9	-	1	1	22.7	11.0	16.9	-	7.0	15	0	125	-	70	-	4.8	15	0	18.8	-	112.4	-	3.2	1	-	-	-	
	21-END	36.0	-	6	5	18.6	9.0	13.8	-	5.2	29	0	94	-	41	-	2.3	29	0	17.5	-	62.4	-	5.3	3	-	-	-	
	MONTH	65.7	134	13	10	18.6	8.4	13.5	+0.2	0.7	1	0	275	98	126	106	-1.5	4	2	16.5	-	211.0	113	4.1	5	98	-	-	
Dublin Airport Co. Dublin	1-10	10.6	-	7	4	14.3	6.4	10.3	-	2.7	1	0	60	-	15	-	-0.9	1	2	14.7	-	43.7	-	2.6	0	-	-	-	
	11-20	27.7	-	1	1	21.6	12.3	16.9	-	9.2	15	0	125	-	70	-	7.1	18	0	20.4	-	119.0	-	2.0	0	-	-	-	
	21-END	29.5	-	6	6	18.8	10.0	14.4	-	6.7	29	0	100	-	46	-	3.4	29	0	19.2	-	65.0	-	3.3	1	-	-	-	
	MONTH	67.8	128	14	11	18.2	9.6	13.9	+0.4	2.7	1	0	285	99	131	111	-0.9	1	2	18.1	+1.5	227.7	118	2.6	1	101	-	-	
Kinsealy Co. Dublin	1-10	8.0	-	6	4	14.7	4.7	9.7	-	-1.0	3	1	55	-	16	-	-3.3	5	5	-	-	49.1	-	3.3	-	-	-	-	
	11-20	38.4	-	2	1	20.6	9.3	15.0	-	2.0	11	0	106	-	53	-	1.0	18	0	-	-	111.4	-	2.9	-	-	-	-	
	21-END	23.0	-	6	5	19.1	9.7	14.4	-	6.3	22	0	100	-	46	-	0.2	22	0	-	-	71.5	-	3.7	-	-	-	-	
	MONTH	69.4	136	14	10	18.1	7.9	13.0	-	-1.0	3	1	261	-	115	-	-3.3	5	5	-	-	232.0	-	3.3	-	95	-	-	
Galway Co. Galway	1-10																												
	11-20																												
	21-END																												
	MONTH																												
Killarney (Muckross House) Co. Kerry	1-10	87.3	-	7	5	14.7	8.0	11.3	-	3.6	2	0	70	-	20	-	-1.2	7	1	-	-	27.8	-	-	-	-	-	-	
	11-20	17.1	-	2	2	20.7	11.0	15.9	-	6.4	15	0	115	-	60	-	4.2	21	0	-	-	61.4	-	-	-	-	-	-	
	21-END	26.4	-	4	4	17.7	10.2	13.9	-	7.5	22	0	95	-	41	-	4.6	24	0	-	-	37.7	-	-	-	-	-	-	
	MONTH	130.8	179	13	11	17.7	9.7	13.7	-	3.6	2	0	279	-	121	-	-1.2	7	1	-	-	126.9	-	-	-	-	-	-	

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TABLE 1 (CONTINUED)

JUNE 1989

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 ^e (Valentia Obsy.) Co. Kerry	1-10	43.7	-	6	3	14.8	8.4	11.6	-	5.0	7	0	72	-	20	-	-0.9	7	1	15.0	-	41.8	-	5.2	1	-
	11-20	14.4	-	3	2	19.4	11.3	15.3	-	6.7	15	0	109	-	54	-	3.8	13	0	18.1	-	89.6	-	3.4	2	-
	21-END	23.7	-	6	5	17.1	10.7	13.9	-	8.4	24	0	95	-	39	-	4.5	22	0	17.7	-	74.3	-	4.7	0	-
	MONTH	81.8	108	15	10	17.1	10.1	13.6	+0.1	5.0	7	0	276	98	114	102	-0.9	7	1	16.9	+0.7	205.7	125	4.4	3	94
Ardfert (Lisachane) Co. Kerry	1-10	49.0	-	6	6	15.1	6.6	10.9	-	0.9	7	0	66	-	20	-	-2.5	7	3	-	-	53.6	-	-	-	-
	11-20	12.1	-	2	2	20.4	10.1	15.2	-	7.5	15	0	108	-	54	-	3.5	15	0	-	-	100.6	-	-	-	-
	21-END	30.3	-	4	4	17.3	9.6	13.4	-	4.2	21	0	90	-	37	-	-0.6	21	1	-	-	65.1	-	-	-	-
	MONTH	91.4	-	12	12	17.6	8.8	13.2	-	0.9	7	0	265	-	111	-	-2.5	7	4	-	-	219.3	-	-	-	-
Lullymore Co. Kildare	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	-	N/A
Kilkenny ^e Co. Kilkenny	1-10	19.4	-	7	5	15.0	6.1	10.5	-	3.1	2	0	62	-	17	-	-0.8	2	2	14.0	-	38.6	-	3.1	0	-
	11-20	7.6	-	2	1	22.3	10.5	16.4	-	6.5	14	0	120	-	67	-	2.1	14	0	18.8	-	99.2	-	2.1	0	-
	21-END	24.6	-	4	4	19.6	9.3	14.4	-	6.5	23	0	100	-	47	-	2.6	23	0	18.4	-	70.4	-	3.4	1	-
	MONTH	51.6	110	13	10	19.0	8.6	13.8	+0.3	3.1	2	0	282	99	131	106	-0.8	2	2	17.1	+0.1	208.2	122	2.9	1	97
Mooncoin (Silverspring) Co. Kilkenny	1-10	39.4	-	8	7	14.9	6.2	10.5	-	1.0	2	0	62	-	17	-	-4.2	2	4	-	-	-	-	-	-	-
	11-20	17.6	-	2	2	21.5	9.4	15.5	-	4.4	18	0	111	-	59	-	-1.4	18	1	-	-	-	-	-	-	-
	21-END	17.5	-	5	4	19.5	8.3	13.9	-	5.1	24	0	95	-	44	-	-2.0	24	1	-	-	-	-	-	-	-
	MONTH	74.5	141	15	13	18.7	7.9	13.3	-	1.0	2	0	269	-	119	-	-4.2	2	6	-	-	-	-	-	-	-
Ballinamore Co. Leitrim	1-10	14.0	-	5	3	14.4	5.8	10.1	-	0.6	1	0	58	-	15	-	-4.2	1	4	-	-	33.2	-	2.4	-	-
	11-20	5.5	-	2	2	22.1	9.9	16.0	-	3.5	15	0	116	-	63	-	-1.2	15	1	-	-	76.2	-	1.7	-	-
	21-END	23.4	-	7	5	17.4	8.4	12.9	-	4.5	22	0	85	-	34	-	-1.0	22	2	-	-	47.3	-	2.9	-	-
	MONTH	42.9	56	14	10	18.0	8.0	13.0	-	0.6	1	0	260	-	112	-	-4.2	1	7	-	-	156.7	-	2.3	-	N/A
Ardee (Boharnamoe) Co. Louth	1-10	10.5	-	7	4	15.7	4.6	10.1	-	0.5	1	0	60	-	19	-	1.0	7	0	-	-	-	-	-	-	-
	11-20	22.0	-	1	1	23.0	9.2	16.1	-	5.6	15	0	117	-	65	-	2.0	14	0	-	-	-	-	-	-	-
	21-END	25.0	-	5	5	19.9	7.6	13.7	-	3.8	28	0	93	-	43	-	3.6	28	0	-	-	-	-	-	-	-
	MONTH	57.5	96	13	10	19.5	7.1	13.3	-	0.5	1	0	271	-	127	-	1.0	7	0	-	-	-	-	-	-	-

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TABLE 1 (CONTINUED)

JUNE 1989

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						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	-	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	-	-		
	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	-	-		
	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		
Belmullet Co. Mayo	1-10	42.9	-	9	6	14.0	7.8	10.9	-	5.0	2	0	65	-	16	-	2.0	2	0	14.1	-	51.8	-	5.9	1	-
	11-20	16.7	-	3	2	18.7	11.4	15.0	-	9.0	15	0	106	-	50	-	5.9	15	0	16.6	-	79.9	-	5.9	2	-
	21-END	26.3	-	7	5	15.3	10.5	12.9	-	7.5	29	0	85	-	30	-	4.5	29	0	16.3	-	36.6	-	5.9	3	-
	MONTH	85.9	123	19	13	16.0	9.9	12.9	-0.1	5.0	2	0	256	96	96	99	2.0	2	0	15.7	-0.0	168.3	94	5.9	6	88
Claremorris Co. Mayo	1-10	59.0	-	7	6	14.3	5.3	9.8	-	2.1	2	0	56	-	14	-	-2.0	7	3	12.8	-	46.1	-	4.3	0	-
	11-20	4.1	-	2	2	21.3	10.4	15.8	-	5.0	15	0	114	-	60	-	2.5	15	0	17.8	-	90.9	-	3.9	2	-
	21-END	14.5	-	6	4	17.5	8.5	13.0	-	4.4	22	0	87	-	35	-	-0.4	22	1	17.3	-	54.9	-	4.6	2	-
	MONTH	77.6	105	15	12	17.7	8.1	12.9	+0.1	2.1	2	0	256	97	109	104	-2.0	7	4	16.0	+0.8	191.9	125	4.3	4	87
Glenamoy Co. Mayo	1-10	45.5	-	8	7	13.8	7.1	10.4	-	3.4	2	0	61	-	13	-	0.7	2	0	-	-	N/A	-	3.0	-	-
	11-20	10.7	-	3	3	19.7	10.5	15.1	-	7.1	13	0	107	-	53	-	3.8	15	0	-	-	N/A	-	2.6	-	-
	21-END	37.7	-	7	6	15.3	9.5	12.4	-	4.6	29	0	80	-	26	-	1.7	30	0	-	-	N/A	-	3.0	-	-
	MONTH	93.9	106	18	16	16.3	9.0	12.7	-	3.4	2	0	248	-	92	-	0.7	2	0	-	-	N/A	-	2.9	-	N/A
Dunsany (Grange) Co. Meath	1-10	13.4	-	8	5	14.2	4.8	9.5	-	0.6	1	0	54	-	14	-	-4.1	1	3	-	-	-	-	-	-	-
	11-20	35.9	-	2	2	21.5	12.7	17.1	-	8.5	17	0	127	-	72	-	0.4	16	0	-	-	-	-	-	-	-
	21-END	26.4	-	6	6	17.8	8.2	13.0	-	4.5	22	0	86	-	35	-	-4.7	21	3	-	-	-	-	-	-	-
	MONTH	75.7	131	16	13	17.8	8.6	13.2	-	0.6	1	0	267	-	121	-	-4.7	21	6	-	-	-	-	-	-	-
Clones Co. Monaghan	1-10	12.5	-	6	4	14.6	6.1	10.4	-	1.6	1	0	61	-	17	-	-2.4	1	2	12.4	-	45.0	-	3.6	1	-
	11-20	3.9	-	2	2	22.2	11.3	16.8	-	6.6	15	0	124	-	69	-	0.2	15	0	17.9	-	87.5	-	3.5	1	-
	21-END	24.1	-	7	5	17.7	8.9	13.3	-	5.2	29	0	89	-	36	-	-0.6	29	1	16.2	-	59.1	-	4.6	3	-
	MONTH	40.5	59	15	11	18.2	8.8	13.5	+0.5	1.6	1	0	273	100	122	112	-2.4	1	3	15.5	-0.3	191.6	122	3.9	5	93
Birr Co. Offaly	1-10	32.3	-	7	6	14.8	5.6	10.2	-	1.1	7	0	59	-	16	-	-2.1	2	3	14.1	-	32.0	-	2.8	0	-
	11-20	1.1	-	1	1	22.5	10.8	16.7	-	5.1	15	0	123	-	69	-	0.7	15	0	19.2	-	88.3	-	2.3	2	-
	21-END	26.6	-	6	5	18.4	8.7	13.5	-	4.3	22	0	91	-	40	-	0.5	22	0	18.3	-	64.3	-	2.7	0	-
	MONTH	60.0	115	14	12	18.6	8.3	13.5	+0.1	1.1	7	0	273	96	125	105	-2.1	2	3	17.2	+0.6	184.6	114	2.6	2	88

TABLE 1 (CONTINUED)

JUNE 1989

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	33.1	-	7	5	15.3	5.7	10.5	-	-0.1	1	1	62	-	18	-	-2.4	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	11-20	3.0	-	2	2	21.9	10.3	16.1	-	5.3	15	0	117	-	64	-	1.1	14	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	21-END	23.2	-	6	5	18.4	8.8	13.6	-	5.6	22	0	92	-	40	-	0.9	22	0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	MONTH	59.3	-	15	12	18.5	8.3	13.4	-	-0.1	1	1	272	-	122	-	-2.4	2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dungarvan (Carriglea) Co. Waterford	1-10	29.2	-	7	7	16.3	6.6	11.4	-	3.0	2	0	71	-	24	-	N/A	N/A	-	-	33.7	-	2.5	-	-	-	-	-	-	-	-	-	-	-		
	11-20	0.9	-	1	0	22.7	10.2	16.4	-	6.7	14	0	120	-	67	-	N/A	N/A	-	-	96.4	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-	
	21-END	10.2	-	5	4	19.9	9.3	14.6	-	6.4	24	0	102	-	49	-	N/A	N/A	-	-	68.7	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-	
	MONTH	40.3	73	13	11	19.6	8.7	14.2	-	3.0	2	0	293	-	140	-	N/A	N/A	-	-	198.8	-	2.1	-	-	-	-	-	-	-	-	-	-	-	-	-
Mullingar Co. Westmeath	1-10	19.5	-	8	6	14.2	6.0	10.1	-	2.8	1	0	58	-	15	-	0.3	2	0	13.0	-	44.9	-	4.0	0	-	-	-	-	-	-	-	-	-	-	
	11-20	1.8	-	2	1	21.7	10.5	16.1	-	5.6	15	0	117	-	63	-	3.0	15	0	18.1	-	98.7	-	3.5	1	-	-	-	-	-	-	-	-	-	-	-
	21-END	23.0	-	6	5	17.6	8.5	13.0	-	5.3	29	0	86	-	34	-	1.3	29	0	16.8	-	61.0	-	4.4	1	-	-	-	-	-	-	-	-	-	-	-
	MONTH	44.3	70	16	12	17.8	8.3	13.1	+0.2	2.8	1	0	261	94	112	97	0.3	2	0	16.0	-0.0	204.6	123	4.0	2	95	-	-	-	-	-	-	-	-	-	
J.F.K. Park Co. Wexford	1-10	21.0	-	6	6	14.6	6.7	10.6	-	3.6	2	0	63	-	16	-	-5.2	2	6	-	-	27.3	-	3.8	-	-	-	-	-	-	-	-	-	-	-	
	11-20	16.0	-	2	2	20.7	11.6	16.1	-	9.0	18	0	117	-	62	-	-0.6	14	1	-	-	100.1	-	2.2	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	17.1	-	5	4	18.4	9.0	13.7	-	7.0	24	0	93	-	40	-	0.1	24	0	-	-	66.8	-	3.8	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	54.1	97	13	12	17.9	9.1	13.5	-	3.6	2	0	273	-	118	-	-5.2	2	7	-	-	194.2	-	3.3	-	-	-	-	-	-	-	-	-	-	-	-
Clonroche Co. Wexford	1-10	34.6	-	6	6	14.5	6.1	10.3	-	2.4	2	0	60	-	14	-	-5.4	2	6	-	-	45.1	-	1.4	-	-	-	-	-	-	-	-	-	-	-	
	11-20	25.3	-	2	2	21.2	12.1	16.6	-	8.0	18	0	122	-	68	-	1.5	18	0	-	-	102.6	-	1.2	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	18.5	-	5	3	18.7	8.4	13.6	-	5.9	24	0	92	-	40	-	0.2	24	0	-	-	79.2	-	1.9	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	78.4	124	13	11	18.1	8.9	13.5	-	2.4	2	0	273	-	122	-	-5.4	2	6	-	-	226.9	-	1.5	-	-	-	-	-	-	-	-	-	-	-	-
Johnstown Castle Co. Wexford	1-10	21.8	-	7	6	15.4	6.6	11.0	-	3.9	2	0	66	-	19	-	-2.0	2	2	-	-	N/A	-	1.5	-	-	-	-	-	-	-	-	-	-	-	
	11-20	23.7	-	2	2	20.1	11.8	16.0	-	9.7	17	0	116	-	60	-	3.5	17	0	-	-	N/A	-	1.1	-	-	-	-	-	-	-	-	-	-	-	-
	21-END	16.0	-	4	4	17.7	9.3	13.5	-	7.9	24	0	91	-	37	-	-0.5	24	1	-	-	N/A	-	1.7	-	-	-	-	-	-	-	-	-	-	-	-
	MONTH	61.5	106	13	12	17.7	9.2	13.5	-	3.9	2	0	273	-	115	-	-2.0	2	3	-	-	N/A	-	1.4	-	-	-	-	-	-	-	-	-	-	-	-
Rosslare Co. Wexford	1-10	13.3	-	6	4	13.5	8.4	11.0	-	7.2	7	0	66	-	14	-	5.1	2	0	14.8	-	55.9	-	5.6	3	-	-	-	-	-	-	-	-	-	-	
	11-20	28.0	-	2	1	18.4	12.5	15.4	-	10.8	17	0	110	-	54	-	5.9	18	0	19.3	-	101.7	-	4.0	0	-	-	-	-	-	-	-	-	-	-	-
	21-END	20.6	-	4	3	16.5	10.8	13.6	-	8.9	28	0	92	-	37	-	6.6	24	0	18.1	-	76.2	-	5.5	1	-	-	-	-	-	-	-	-	-	-	-
	MONTH	61.9	126	12	8	16.1	10.6	13.3	+0.0	7.2	7	0	268	96	105	98	5.1	2	0	17.4	+0.4	233.8	110	5.1	4	107	-	-	-	-	-	-	-	-	-	-

NOTES ON THE TABLES IN JANUARY ISSUE

TABLE 2 GLOBAL RADIATION

STATION	PERIOD	AMOUNT MJ/m ²
Malin Head Co. Donegal	1-10	213.19
	11-20	217.25
	21-end	146.83
	Month	577.27
Dublin Airport Co. Dublin	1-10	166.52
	11-20	247.87
	21-end	185.57
	Month	599.96
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	172.74
	11-20	218.21
	21-end	208.14
	Month	599.09
Kilkenny Co. Kilkenny	1-10	165.95
	11-20	228.25
	21-end	202.90
	Month	597.10
Belmullet Co. Mayo	1-10	160.37
	11-20	187.00
	21-end	159.30
	Month	506.67
Clones Co. Monaghan	1-10	166.66
	11-20	223.08
	21-end	188.19
	Month	577.93
Birr Co. Offaly	1-10	153.65
	11-20	223.66
	21-end	186.46
	Month	563.77

Notes on the tables in January issue

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	18.6	-	62	6
	11-20	29.8	-	58	4
	21-end	33.0	-	51	7
	Month	81.4	-	--	-
Kinsealy Co. Dublin	1-10	22.6	8	64	-
	11-20	47.3	-	55	9
	21-end	33.5	1	56	-
	Month	103.4	-	--	-
Cahirciveen (Valentia Obs.) Co. Kerry	1-10	30.0	-	16	15
	11-20	4.4	-	5	11
	21-end	31.0	7	12	-
	Month	65.4	-	--	-
Ballinamore Co. Leitrim	1-10	12.7	-	42	3
	11-20	31.2	20	62	-
	21-end	32.9	-	50	12
	Month	77.8	-	--	-
Glenamoy Co. Mayo	1-10	23.8	-	0	22
	11-20	14.1	3	3	-
	21-end	13.9	-	0	24
	Month	51.8	-	-	-
Johnstown Castle Co. Wexford	1-10	26.3	-	54	4
	11-20	23.1	-	47	7
	21-end	28.7	7	54	-
	Month	78.1	-	--	-

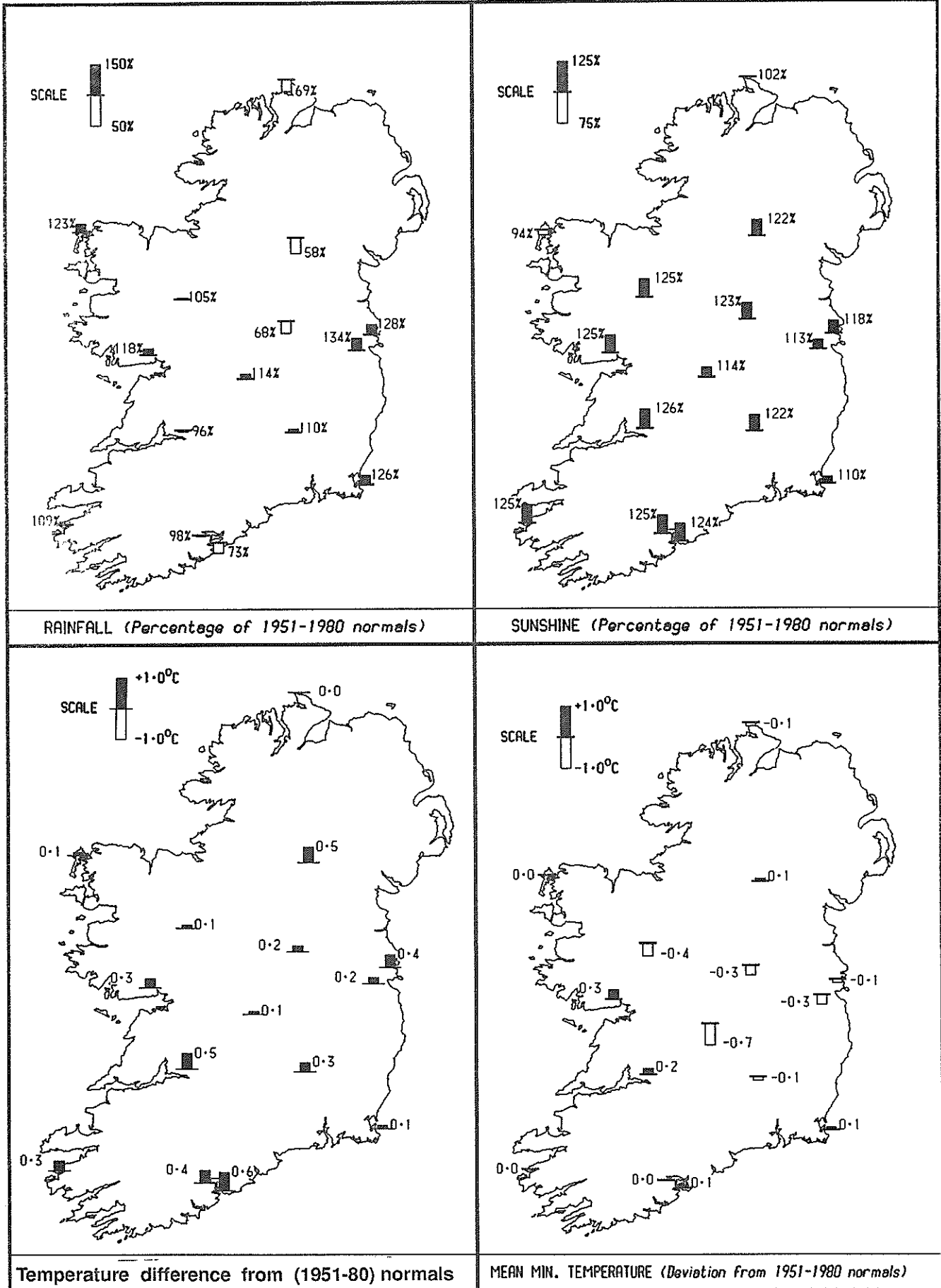
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TABLE 4 SOIL CLIMATE (MULLINGAR)

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	15.5	13.7	11.4	-0.02
	11-20	20.1	18.2	15.2	-1.50	228.60	220.60
	21-end	20.1	17.4	14.7	-0.26	221.90	230.00
Mineral	1-10	15.8	12.8	9.9	-0.02	454.60	393.00
	11-20	21.3	17.7	12.9	-1.21	414.20	302.90
	21-end	20.5	16.4	13.9	-0.12	392.50	495.50

June 1989

Differences from average

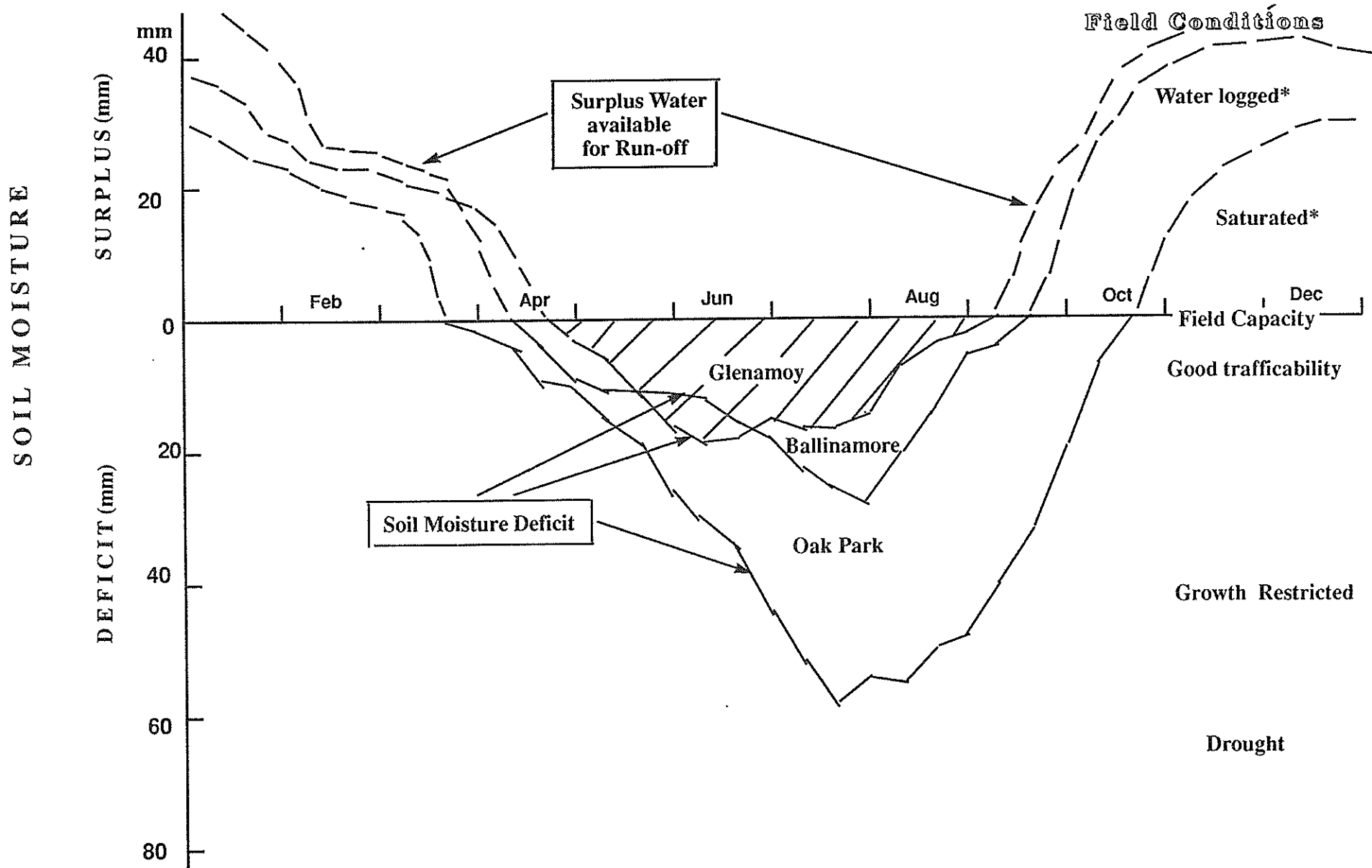


PRECIPITATION VALUES FOR June 1989

MARKREE (CO. SLIGO)				LETTERKENNY (CO. DONEGAL)				
PERIOD	AMOUNT	% OF AVERAGE	RAIN DAYS NO.	WET DAYS NO.	AMOUNT	% OF AVERAGE	RAIN DAYS NO.	WET DAYS NO.
1 - 10	25.4		8	7	25.4		6	3
11 - 20	7.7		2	2	1.0		1	0
21 - END	16.4		8	4	26.3		7	6
MONTH	49.5	62	18	13	52.7	70	14	9

Outlook for July 13th - 22rd

High pressure will dominate, with an anticyclone centred close to or over Ireland. Variable cloud cover at first with a little rain in places - dry and settled from 16th onwards, good drying, plenty of sun. Generally light winds.



Run-off water (10-day totals) and Soil Moisture Deficit at Glenamoy, Ballinamore and Oak Park — median values (mm) for period 1971-1987
 * These conditions depend on the drainage characteristics of soil