



## AGROMETEOROLOGICAL BULLETIN

OCTOBER 1971

### The weather during October

Mean air temperatures over the month were well above normal everywhere and pastures showed a good growth right up to the end of the month. The first ten days were particularly warm with mean air temperatures of  $14.5^{\circ}\text{C}$  -  $16.0^{\circ}\text{C}$ , values which are usually associated with June rather than with October. There were, however, some cold nights during the month; in most inland places air frost and sharp ground frost was experienced on the night of 13/14 and again on a few nights during the last week.

After a dry September, soil conditions were ideal for the harvesting of potatoes and beet during the early part of October but in the southern half of the country heavy falls of rain occurred during the period 12th - 18th which made field work difficult. Counties Cork and Kerry were worst affected by these heavy falls - at Muckross, Killarney, for example, a total of 49.8 millimetres of rain was recorded on 12th, 19.1 millimetres on 16th and 36.3 millimetres on 18th. Over the month as a whole, rainfall amounts were below average everywhere except in parts of Munster; in north Leinster and east Ulster monthly totals were less than 50% of average.





TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

OCTOBER 1971

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10 cm)		Mean Daily	Percentage of Average	Mean Speed	No. of Days with Gale Gusts		
						Mean Daily	Difference from Average	Lowest Minimum	Day	No. of Days with Air Frost	Degree Days Above 4.4°C	Degree Days Above 6.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
Clonroche Co. Wexford	1-10	7.3	-	4	2	°C	-	°C	-	°C	-	-	-	-	-	-	-	2.48	-	3	-
	11-20	84.2	-	10	9	NA	-	-	NA	-	NA	-	-	-	-	-	-	3.07	-	5	-
	21-end	16.9	-	5	3	-	-	-	-	-	-	-	-	-	-	-	-	2.85	-	5	-
	Month	108.4	-	19	14	-	-	-	-	-	-	-	-	-	-	-	-	2.80	-	4	-
Johnstown Castle Co. Wexford	1-10	4.9	-	3	2	14.3	-	+8.0	09	0	99.3	83.3	+3.8	09	0	-	-	2.90	-	7	-
	11-20	78.9	-	9	6	11.6	-	+5.0	14	0	71.6	55.9	-1.7	15	1	-	-	NA	-	10	-
	21-end	7.7	-	4	3	11.5	-	+5.6	25	0	78.3	60.8	+0.5	31	0	-	-	2.55	-	9	-
	Month	91.5	91	16	11	12.4	-	+5.0	14	0	249.2	200.0	-1.7	15	1	-	-	NA	-	9	-
Rosslare Co. Wexford	1-10	4.2	-	3	1	15.1	-	+10.1	09	0	107.5	91.5	+7.6	09	0	15.6	-	3.63	-	9	1
	11-20	68.6	-	8	8	12.2	-	+7.6	20	0	77.6	61.6	+4.3	15	0	12.2	-	3.12	-	15	7
	21-end	5.3	-	4	3	12.3	-	+6.6	29	0	87.3	69.7	+0.8	29	0	12.0	-	3.15	-	14	4
	Month	78.1	91	15	12	13.2	+1.9	+6.6	29	0	272.4	222.8	+0.8	29	0	13.2	+4.6	3.30	87	13	12

TABLE 2.

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

STATION	PERIOD	SOLAR RADIATION	P.E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	Joule/cm <sup>2</sup>	mm	mm	mm	mm
	11-20	-	13	10	35	0
	21-end	-	11	0	0	40
	Month	-	6	0	0	10
Kiassealy Co. Dublin	1-10	8742	29	14	67	0
	11-20	8057	10	0	52	15
	21-end	6161	19	12	64	0
	Month	22960	58	-	-	-
Cahirciveen (Valentia Obay.) Co. Kerry	1-10	5610	12	0	0	26
	11-20	5610	15	0	0	77
	21-end	5687	2	0	0	20
	Month	16907	29	-	-	-
Kilkenny Co. Kilkenny	1-10	7046	-	-	-	-
	11-20	6506	-	-	-	-
	21-end	5830	-	-	-	-
	Month	19382	-	-	-	-
Ballymore Co. Leitrim	1-10	NA	8	0	0	8
	11-20	5987	6	0	0	35
	21-end	5312	0	0	0	9
	Month	NA	14	-	-	-
Glenamoy Co. Mayo	1-10	5958	8	0	0	18
	11-20	7056	10	0	0	62
	21-end	7282	15	0	0	12
	Month	20296	33	-	-	-
Birr Co. Offaly	1-10	7372	-	-	-	-
	11-20	6450	-	-	-	-
	21-end	5840	-	-	-	-
	Month	19662	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	13	7	40	0
	11-20	-	9	0	0	71
	21-end	-	9	1	1	0
	Month	-	31	-	-	-

See January issue of Bulletin for explanatory notes on the tables.