



AGROMETEOROLOGICAL BULLETIN

NOVEMBER 1975

The Weather in November

From 1st to 5th conditions were changeable but amounts of rain were small, especially in the E and S-E. The period 6th to 9th was largely dry with fog and ground frost at night. Winds were light easterly as a high pressure area dominated. From 10th to 13th E or N-E winds freshened. It was rather cold and there was some rain at times, nearly all of it falling in the E and S-E. On 14th and 15th the weather became mild with occasional rain in all areas, as winds veered Southerly. Cold weather with showers, some of hail occurred on 16th and 17th as N or N-W winds returned. On 18th and 19th it became mild with some drizzle and rain. From 20th to 22nd many areas had dry weather but the W and S had spells of rain. From 23rd to 25th there was some rain chiefly in the N and W. From 26th to 30th it was mostly cold and bright with wintry type showers. The period 28th to 30th saw widespread fog and frost.

Monthly Rainfall was below normal nearly everywhere. Most areas had from 75% to 95% of normal. An area from Birr - Kilkenny - Roche's Point - Cashel - Birr had about 60% of normal rainfall. In Birr and Roche's Point it was the driest November since 1957. There was, nonetheless, a surplus of rainfall over evaporation in all areas. Wettest days were 10th and 11th in the E and S-E when Rosslare had a total of over 40 mm. On 15th many areas had 20 to 25 mm of rain.

Temperatures Mean monthly temperatures were generally very close to normal and in all cases were within 0.5°C of normal. The 4" soil temperatures were above normal (by more than 1°C in parts of the W and S-W). The highest air temperature 14.9°C was recorded at Valentia on 7th. Ground frost was widespread on 2nd, from 6th to 9th and again on 17th and 18th. Air frost affected a few areas on 2nd, 11th and 18th. The 24th, 26th and from 28th to 30th were frosty. On 29th the lowest air temperatures of the month (3 to 4°C of air frost) were recorded.

Sunshine Amounts varied from 70% to 90% of normal. Rosslare had 102% of normal and, with 8.3 hrs sun on 7th, recorded the most sunshine in one day. Mean daily duration of sunshine ranged from 1.4 to 2.5 hrs.

Winds No particularly windy days occurred in the first half of the month. In the second half of the month winds were strong on 16th, 17th, 19th, 22nd and 27th. The range of gusts associated with the strong winds was 35 to 50 kts generally but some gusts to about 60 kts occurred in the N-W and N.

Summary November was a dry, dull month.

TABLE 1.

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

NOVEMBER 1975

STATION	PERIOD	RAINFALL				TEMPERATURE										BRIGHT SUNSHINE		WIND			
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL(10cm)		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 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
mm	%			°C	°C	°C				°C		°C	°C	hr	%	Kt					
Carlow (Oak Park) Co. Carlow	1-10	16.6	-	6	4	7.1	-	0.0	02	0	27	0	-3.5	02	7	-	-	2.00	-	3	-
	11-20	11.4	-	6	3	7.5	-	-0.2	18	1	31	01	-4.2	18	2	-	-	1.26	-	6	-
	21-end	27.1	-	7	4	6.4	-	-2.2	29	2	25	0	-5.8	29	5	-	-	1.72	-	5	-
	Month	55.1	-	19	11	7.0	-	-2.2	29	3	83	01	-5.8	29	14	-	-	1.66	-	5	-
Shannon Airport e Co. Clare	1-10	9.9	-	5	3	8.5	-	+3.2	09	0	42	0	-1.4	07	3	9.2	-	2.10	-	8	2
	11-20	23.3	-	5	3	8.4	-	+2.1	11	0	41	04	-1.5	18	2	8.4	-	0.69	-	10	2
	21-end	51.6	-	9	8	7.3	-	0.0	29	0	30	01	-4.6	29	4	8.0	-	1.80	-	9	2
	Month	84.8	91	19	14	8.1	+0.5	0.0	29	0	113	05	-4.6	29	9	8.5	+1.2	1.53	75	9	6
Fermoy (Moore Park) Co. Cork	1-10	7.7	-	6	3	7.1	-	-0.2	02	1	26	0	-3.8	02	8	-	-	1.89	-	4	-
	11-20	15.5	-	8	4	8.2	-	+1.0	11	0	38	04	-5.1	17	4	-	-	1.12	-	7	-
	21-end	25.0	-	8	5	6.3	-	-3.5	29	3	23	0	-6.8	30	6	-	-	1.69	-	4	-
	Month	48.2	-	22	12	7.2	-	-3.5	29	4	87	04	-6.8	30	18	-	-	1.57	-	5	-
Mallow Co. Cork	1-10	5.7	-	7	2	7.7	-	+0.8	02	0	34	0	-3.9	02	6	-	-	2.04	-	-	-
	11-20	18.4	-	9	3	8.4	-	+1.5	18	0	40	04	-3.0	17	2	-	-	1.09	-	-	-
	21-end	37.5	-	10	7	6.5	-	-2.7	29	2	24	0	-7.0	29	7	-	-	1.93	-	-	-
	Month	61.6	58	26	12	7.5	-	-2.7	29	2	98	04	-7.0	29	15	-	-	1.69	-	-	-
Roche's Point e Co. Cork	1-10	10.3	-	4	4	9.2	-	+4.6	02	0	48	0	0.0	02	0	9.4	-	1.98	-	11	4
	11-20	20.0	-	5	4	9.6	-	+3.1	11	0	53	07	+1.9	11	0	9.1	-	1.38	-	14	3
	21-end	18.9	-	8	4	7.7	-	+1.3	29	0	33	01	-2.3	29	3	8.0	-	2.65	-	12	3
	Month	49.2	54	17	12	8.8	0.0	+1.3	29	0	134	08	-2.3	29	3	8.9	+0.7	2.00	89	12	10
Glencolumbkille Co. Donegal	1-10	18.1	-	5	4	9.2	-	+4.0	02	0	43	01				-	-	1.51	-		-
	11-20	32.3	-	8	6	8.0	-	+2.0	11	0	37	01	NA	NA		-	-	0.88	-	NA	-
	21-end	76.6	-	10	8	7.7	-	+2.8	30	0	33	0				-	-	0.62	-		-
	Month	127.0	-	23	18	8.3	-	+2.0	11	0	113	02				-	-	1.00	-		-
Glenties Co. Donegal	1-10	20.0	-	5	4	7.7	-	-0.2	02	1	34	0	-4.0	02	5	-	-	1.41	-	-	-
	11-20	37.2	-	6	5	6.8	-	-1.8	18	2	24	0	-4.6	12	3	-	-	1.36	-	-	-
	21-end	79.7	-	10	9	5.8	-	-0.7	29	1	17	0	-4.5	29	5	-	-	0.90	-	-	-
	Month	136.9	88	21	18	6.8	-	-1.8	18	4	75	0	-4.6	12	13	-	-	1.22	-	-	-

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

TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

NOVEMBER 1975

STATION	PERIOD	RAINFALL				TEMPERATURE											BRIGHT SUNSHINE		WIND		
		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR						GROUND			SOIL (10cm)		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 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost	Mean Daily					Difference from Average
Malin Head Co. Donegal	1-10	15.1	-	7	6	8.6	-	+2.6	09	0	43	0	-1.5	09	2	8.1	-	1.22	-	14	3
	11-20	33.2	-	7	5	7.5	-	+2.2	12	0	31	01	-1.4	12	2	7.1	-	1.32	-	16	4
	21-end	57.4	-	9	7	6.8	-	+2.4	21	0	24	0	-0.2	21	1	5.9	-	1.64	-	16	7
	Month	105.7	110	23	18	7.6	-0.3	+2.2	12	0	98	01	-1.5	09	5	7.0	-	1.39	82	15	14
Dublin Airport Co. Dublin	1-10	26.5	-	3	2	8.2	-	+2.9	02	0	38	0	-0.9	02	1	8.2	-	1.97	-	9	0
	11-20	22.4	-	5	5	8.1	-	+0.6	18	0	38	03	-1.7	18	2	7.5	-	0.87	-	10	3
	21-end	8.4	-	5	3	6.0	-	-0.6	30	1	22	0	-1.4	30	3	6.2	-	3.07	-	10	2
	Month	57.3	84	13	10	7.5	+0.1	-0.6	30	1	98	03	-1.7	18	6	7.3	+0.7	1.97	90	10	5
Kinsealy Co. Dublin	1-10	23.6	-	4	2	8.4	-	+2.0	02	0	40	0	-2.7	02	3	-	-	2.08	-	6	-
	11-20	14.9	-	5	5	7.7	-	-0.2	18	1	33	01	-5.0	18	3	-	-	0.83	-	7	-
	21-end	9.6	-	4	3	6.7	-	-0.5	30	1	24	0	-3.4	22	6	-	-	3.29	-	8	-
	Month	48.1	-	13	10	7.6	-	-0.5	30	2	97	01	-5.0	18	12	-	-	2.07	-	7	-
Lucan (U.C.D. Field Stn.) Co. Dublin	1-10	29.2	-	4	3	7.1	-	-2.0	02	1	28	0	-7.4	02	4	-	-	1.87	-	4	-
	11-20	16.6	-	6	4	7.0	-	-1.1	18	1	27	0	-4.4	18	4	-	-	0.82	-	5	-
	21-end	18.3	-	6	4	6.3	-	-1.4	30	3	21	0	-2.8	29	5	-	-	3.29	-	6	-
	Month	64.1	-	16	11	6.8	-	-2.0	02	5	76	0	-7.4	02	13	-	-	1.99	-	5	-
Galway (Univ. Coll.) Co. Galway	1-10	24.2	-	6	5	8.7	-	+3.0	09	0	43	01	-3.5	02	4	-	-	2.15	-	-	-
	11-20	24.0	-	7	2	7.3	-	+1.1	11	0	31	0	-3.7	11	5	-	-	0.73	-	NA	-
	21-end	57.1	-	9	6	7.5	-	-0.1	30	1	34	01	-7.0	29	6	-	-	2.34	-	-	-
	Month	105.3	-	22	13	7.9	-	-0.1	30	1	108	02	-7.0	29	15	-	-	1.74	-	-	-
Kilburney (Muckross Hall) Co. Kerry	1-10	12.7	-	5	5	9.3	-	+3.2	07	0	50	03	-1.6	09	3	-	-	2.19	-	-	-
	11-20	35.6	-	10	7	9.2	-	+3.1	11	0	48	07	-1.0	17	1	-	-	1.03	-	-	-
	21-end	83.2	-	9	9	8.0	-	-1.0	30	2	37	05	-4.0	29	5	-	-	0.95	-	-	-
	Month	131.5	-	24	21	8.8	-	-1.0	30	2	135	15	-4.0	29	9	-	-	1.39	-	-	-
Cahiriveen (Valentin Obay.) Co. Kerry	1-10	22.2	-	5	3	9.4	-	+4.8	08	0	50	02	+0.3	09	0	9.8	-	1.75	-	10	1
	11-20	41.9	-	8	7	9.9	-	+1.4	11	0	55	09	-2.2	11	1	9.3	-	1.45	-	12	3
	21-end	76.2	-	10	10	8.5	-	+0.9	29	0	36	03	-1.4	29	2	8.8	-	1.06	-	10	5
	Month	140.3	93	23	20	9.2	+0.1	+0.9	29	0	141	14	-2.2	11	3	9.3	+1.1	1.42	72	11	9

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TABLE 1. (Continued)

RAINFALL, TEMPERATURE, SUNSHINE AND WIND

NOVEMBER 1975

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		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND		SOIL (10cm)			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 4.0°C	Degree Days Above 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost					Mean Daily	Difference from Average
mm	%			°C	°C	°C					°C	°C	°C	°C	Hr	%	Kt				
Tralee (Caherweesheen) Co. Kerry	1-10	13.1	-	5	4	9.2	-	+1.3	09	0	48	02	-3.3	09	3	-	-	2.12	-	-	-
	11-20	22.5	-	8	6	9.1	-	0.0	18	0	48	07	-3.9	18	3	-	-	1.02	-	-	-
	21-end	73.1	-	9	8	7.8	-	-1.0	29	2	36	04	-4.3	29	4	-	-	1.09	-	-	-
	Month	108.7	-	22	18	8.7	-	-1.0	29	2	132	13	-4.3	29	10	-	-	1.41	-	-	-
Lullymore Co. Kildare	1-10	17.8	-	6	3	6.8	-	-0.6	02	1	24	0	-6.9	02	6	-	-	1.87	-	6	-
	11-20	22.4	-	8	5	6.5	-	-0.7	18	1	22	0	-4.4	18	4	-	-	1.17	-	7	-
	21-end	34.9	-	5	5	5.8	-	-2.8	29	4	20	0	-8.4	29	6	-	-	2.00	-	7	-
	Month	74.9	-	19	13	6.4	-	-2.8	29	6	66	0	-8.4	29	16	-	-	1.68	-	7	-
Kilkenny e Co. Kilkenny	1-10	11.3	-	5	3	6.5	-	-2.3	02	1	22	0	-5.7	02	6	7.7	-	2.13	-	3	1
	11-20	16.1	-	5	4	8.1	-	+0.5	18	0	37	04	-3.4	18	1	7.5	-	1.19	-	6	2
	21-end	23.1	-	7	5	5.6	-	-2.6	30	4	21	01	-6.9	26	5	6.5	-	1.61	-	4	1
	Month	50.5	59	17	12	6.7	-0.2	-2.6	30	5	80	05	-6.9	26	12	7.2	+0.7	1.64	78	4	4
Mooncoin (Silverspring) Co. Kilkenny	1-10	18.4	-	7	4	7.3	-	+1.0	03	0	29	0	-6.5	02	9	-	-	2.17	-	-	-
	11-20	18.7	-	7	5	8.0	-	+1.0	18	0	36	03	-4.0	18	3	-	-	1.13	-	-	-
	21-end	25.5	-	7	4	6.5	-	-3.5	30	3	26	01	-8.9	30	6	-	-	2.11	-	-	-
	Month	62.6	-	21	13	7.2	-	-3.5	30	3	91	04	-8.9	30	18	-	-	1.80	-	-	-
Ballinamore Co. Leitrim	1-10	16.5	-	6	5	7.0	-	-1.7	02	1	27	0	-3.6	02	4	-	-	1.61	-	4	-
	11-20	33.3	-	7	5	7.2	-	+2.3	11	0	28	0	-1.2	18	3	-	-	1.02	-	6	-
	21-end	60.1	-	7	6	5.7	-	-3.4	30	3	19	0	-5.5	30	4	-	-	2.20	-	5	-
	Month	109.9	-	20	16	6.7	-	-3.4	30	4	74	0	-5.5	30	11	-	-	1.61	-	5	-
Ardee ('oharnamoe) Co. Louth	1-10	14.9	-	6	3	7.4	-	-0.9	02	1	30	0	-7.5	02	7	-	-	-	-	-	-
	11-20	18.9	-	5	3	7.2	-	-0.2	18	1	29	0	-6.2	18	6	-	-	-	-	-	-
	21-end	27.6	-	6	4	5.6	-	-2.2	29	3	18	0	-9.0	29	8	-	-	-	-	-	-
	Month	61.4	-	17	10	6.8	-	-2.2	29	5	77	0	-9.0	29	21	-	-	-	-	-	-
Ballinrobe (Creagh) Co. Mayo	1-10	33.0	-	5	5	8.0	-	-1.7	09	1	37	01	-6.2	09	6	-	-	1.76	-	5	-
	11-20	34.3	-	6	4	7.7	-	-0.8	12	2	36	02	-6.1	12	4	-	-	0.97	-	5	-
	21-end	62.7	-	9	8	7.3	-	-3.9	29	2	33	0	-7.1	30	5	-	-	1.70	-	6	-
	Month	130.0	-	20	17	7.7	-	-3.9	29	5	106	03	-7.1	30	15	-	-	1.48	-	5	-

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NOVEMBER 1975

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		Amount	Percentage of Average	No. of Rain Days	No. of Wet Days	AIR					GROUND			SOIL (10cm)			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 10.0°C	Lowest Grass Minimum	Day	No. of Days with Ground Frost	Mean Daily					Difference from Average
mm	%	°C	°C	°C					°C			°C	°C	Hr	%	Kt					
Belmullet e Co. Mayo	1-10	12.4	-	6	4	8.9	-	+3.9	09	0	45	02	+0.4	02	0	9.5	-	1.55	-	12	3
	11-20	28.2	-	8	5	8.1	-	0.0	12	0	41	03	-2.8	12	2	8.2	-	1.59	-	11	3
	21-end	63.2	-	9	9	7.8	-	+2.2	29	0	35	01	-2.0	30	1	7.8	-	1.32	-	13	4
	Month	103.8	82	23	18	8.3	00	0.0	12	0	121	06	-2.8	12	3	8.5	+0.8	1.49	78	12	10
Claremorris e Co. Mayo	1-10	28.8	-	5	5	6.9	-	+0.6	07	0	25	0	-2.8	02	4	8.1	-	1.77	-	6	1
	11-20	31.6	-	6	4	7.3	-	-0.1	11	1	33	03	-2.5	11	3	7.3	-	0.74	-	8	1
	21-end	53.8	-	7	7	6.1	-	-1.7	30	2	23	0	-6.5	30	5	6.0	-	1.72	-	7	0
	Month	114.2	104	18	16	6.8	+0.2	-1.7	30	3	81	03	-6.5	30	12	7.3	+1.0	1.41	72	7	2
Glenane Co. Mayo	1-10	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	11-20	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	21-end	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Month	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Dunsany (Grange) Co. Meath	1-10	22.2	-	4	3	6.9	-	0.0	02	0	25	0	-6.5	02	5	-	-	1.85	-	-	-
	11-20	22.8	-	6	5	6.4	-	-2.0	18	1	21	0	-7.4	18	5	-	-	0.84	-	-	-
	21-end	30.7	-	6	5	5.6	-	-2.3	29	3	17	0	-5.6	29	7	-	-	3.32	-	NA	-
	Month	75.7	99	16	13	6.3	-	-2.3	29	4	63	0	-7.4	18	17	-	-	2.00	-	-	-
Clones e Co. Monaghan	1-10	13.1	-	4	4	7.0	-	-0.1	02	1	26	0	-3.4	02	5	8.0	-	1.69	-	6	1
	11-20	18.1	-	6	4	7.1	-	+0.5	18	0	28	02	-1.9	18	2	7.1	-	0.94	-	8	2
	21-end	25.6	-	8	7	5.2	-	-2.4	30	3	17	0	-6.5	29	5	6.0	-	2.07	-	8	1
	Month	56.8	68	18	15	6.4	+0.1	-2.4	30	4	71	02	-6.5	29	12	7.0	+0.9	1.57	87	7	4
Birr e Co. Offaly	1-10	4.5	-	4	2	7.1	-	+1.0	07	0	28	0	-2.9	02	4	8.1	-	2.28	-	4	0
	11-20	15.8	-	8	3	7.4	-	+0.7	18	0	31	04	-2.0	18	5	7.3	-	0.77	-	6	2
	21-end	27.1	-	7	6	5.7	-	-2.2	30	3	21	0	-5.5	30	5	6.5	-	1.86	-	5	1
	Month	47.4	61	19	11	6.7	-0.1	-2.2	30	3	80	04	-5.5	30	14	7.3	+0.9	1.64	81	5	3
Turlin Co. Tipperary	1-10	8.4	-	5	3	NA	-	-	-	-	-	-	-	-	-	-	-	2.11	-	-	-
	11-20	14.8	-	4	4	NA	-	-	-	-	-	-	-	-	-	-	-	1.25	-	-	-
	21-end	37.6	-	7	6	6.4	-	-1.7	30	2	21	0	-5.0	30	5	-	-	1.82	-	-	-
	Month	60.8	63	16	13	-	-	-	-	-	-	-	-	-	-	-	-	1.73	-	-	-

See January 1976 Bulletin for explanatory notes on the tables.

TABLE 2.

SOLAR RADIATION (GLOBAL), POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE NOVEMBER 1975

STATION	PERIOD	SOLAR RADIATION	P. E.	SOIL MOISTURE		
		Amount	Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	Joule/cm ² -	mm 5	mm -	mm 0	mm 12
	11-20	-	-2	-	0	13
	21-end	-	9	-	0	18
	Month	-	12	-	-	-
Kinsealy* Co. Dublin	1-10	3787	15	-	0	9
	11-20	2272	-2	-	0	17
	21-end	3181	9	-	0	0
	Month	9240	22	-	-	-
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	3439	-5	-	0	30
	11-20	2414	6	-	0	37
	21-end	2343	-1	-	0	63
	Month	8196	0	-	-	-
Kilkenny e Co. Kilkenny	1-10	3697	-	-	-	-
	11-20	2162	-	-	-	-
	21-end	2736	-	-	-	-
	Month	8595	-	-	-	-
Ballinamore Co. Leitrim	1-10	3316	9	-	0	8
	11-20	2125	5	-	0	28
	21-end	2511	17	-	0	43
	Month	7952	31	-	-	-
Glenamoy Co. Mayo	1-10	-				
	11-20	-				
	21-end	-				
	Month	-				
Birr e Co. Offaly	1-10	3840	-	-	-	-
	11-20	2128	-	-	-	-
	21-end	2755	-	-	-	-
	Month	8723	-	-	-	-
Johnstown Castle Co. Wexford	1-10	-	11	-	0	17
	11-20	-	-2	-	0	36
	21-end	-	11	-	0	25
	Month	-	20	-	-	-

See January issue of Bulletin for explanatory notes on the tables. * Solar Radiation Values from Dublin Airport.