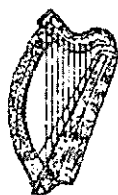


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The Weather of November 1982

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METEOROLOGICAL SERVICE



AGROMETEOROLOGICAL BULLETIN

NOVEMBER 1982

The Weather of November

An active frontal weather system over Ireland on the 1st gave widespread heavy rain everywhere, clearing the midlands, south and southeast on the 2nd. The ridge of high pressure which followed brought a period of good weather on the 2nd and 3rd but with frost at night. A trough spreading from the south late on the 3rd caused outbreaks of rain or drizzle which became widespread and heavy in all regions on the 4th and 5th. Further frontal waves moved westwards over Ireland on the 6th giving outbreaks of rain everywhere, which became widespread and heavy initially in the east and midlands, in the south on the 7th and in all regions on the 8th. Variable or cyclonic winds were strong and gusty in this period.

Changeable and windy conditions set in on the 9th with spells of rain, frequently heavy. A cold west to north-west airflow, strong and gusty, dominated from 13th to 17th and there was frost at night from 13th to 15th. This spell was followed by a period of gales to strong gales and squally showers from 17th to 19th, and there were severe gusts in the west and north. A series of frontal troughs from 20th to 22nd was accompanied by showery conditions some of the showers being of hail. Rain was widespread and heavy on the 23rd.

A quieter but colder spell occurred from 24th to 30th. Apart from rain which occurred in all areas on the 24th and early 25th, conditions were largely bright and dry with some air frost and widespread sharp to severe ground frost on a number of days.

Monthly Amounts of Precipitation were well above normal in almost all areas. Values varied from 200% of normal at Ballinrobe Co. Mayo to 105% of normal at the Glenties; most inland and east stations received in excess of 45% above normal. Wettest days were 1st, 2nd in the southeast, 5th - 8th, 10th, 11th in the south, 18th in the west and 22nd - 24th in many areas.

Mean Monthly Temperature was below normal in most places but above normal in mid-western areas. Departures from normal varied from 0.7°C below at Cahirciveen to 0.2 above at Shannon Airport. There were between 5 and 7 days with air frost at stations in the midlands; elsewhere from 1 to 3 days occurred except in some coastal places. Occurrences of ground frost reached 12 in the midlands, frost being severe on a number of nights. Soil temperatures (100mm) varied from 0.8°C above normal at Clones to 0.2°C below at Malin Head. Accumulated degree days, with threshold 4.4°C, varied from 93% of average at Belmullet to 114% of average at Kilkenny.

Mean Duration of Bright Sunshine was well below normal in all areas except parts of the midlands and east. Values varied from 59% of normal at Cahirciveen to 98% at Dublin Airport. Global solar radiation was 91% of average at Cahirciveen and 81% of average at Dublin Airport.

Widespread Gales occurred frequently, especially on 7th, 9th - 12th, 14th, 16th - 19th, 21 - 22nd.

Summary Wet and windy, and very dull except in the midlands and east.

TABLE 1

November 1982

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 ⁻¹)	DAYS WITH GALE GUSTS	
						MEAN MAX.	MEAN MIN.	MEAN DAILY	AND DIFFERENCE FROM AVERAGE	LOWEST MIN.	DATE	DAYS WITH AIR FROST ABOVE 4.4°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	60.9		9	9	12.0	7.1	9.5	/	4.0	4	0	51	2	0.0	4	0	/	/	0.63		3	/
	11-20	36.1		8	7	9.6	3.4	6.5	/	-0.5	15	1	22	0	-3.2	15	2	/	/	2.48		N/A	/
	21-end	30.9		4	3	7.6	0.7	4.1	/	-3.0	27	5	8	0	-6.0	27	6	/	/	1.77		4	/
	Month	127.9	171	21	19	9.7	3.7	6.7	/	-3.0	27	6	81	2	-6.0	27	8	/	/	1.63		N/A	/
Shannon Airport Co. Clare	1-10	50.4	-	10	6	12.0	7.1	9.5	-	2.1	3	0	51	6	-0.4	6	1	9.4	-	0.67	-	5	3
	11-20	41.1	-	10	8	10.6	5.4	8.0	-	2.4	15	0	36	2	-3.1	15	2	7.3	-	1.63	-	8	8
	21-end	35.7	-	8	5	8.3	3.3	5.8	-	-1.8	27	1	18	0	-5.0	27	5	5.3	-	1.79	-	5	4
	Month	127.2	138	28	19	10.3	5.2	7.8	+0.2	-1.8	27	1	105	8	-5.0	27	8	7.3	-0.1	1.36	67	6	15
Fermoy (Noore Park) Co. Cork	1-10	58.8		10	7	12.1	7.8	9.9	/	5.0	6	0	56	3	-0.8	6	2	/	/	0.38		3	/
	11-20	48.5		8	7	10.1	4.1	7.6	/	-0.2	13	1	27	1	-3.7	13	6	/	/	1.78		5	/
	21-end	24.2		6	4	8.4	1.3	4.8	/	-2.1	29	3	10	0	-7.3	29	8	/	/	1.34		2	/
	Month	131.5	132	24	18	10.2	4.4	7.3	/	-2.1	29	4	93	4	-7.3	29	16	/	/	1.17		3	/
Mallow Co. Cork	1-10	65.5	-	10	10	12.4	5.8	9.1	/	3.3	6	0	47	1	N/A	N/A	/	/	0.29		/	/	
	11-20	54.1	-	9	9	N/A	3.4	N/A	/	-1.8	15	1	N/A	N/A	N/A	N/A	/	/	1.77		/	/	
	21-end	42.8	-	7	6	8.8	3.9	6.3	/	N/A	N/A	20	0	N/A	N/A	/	/	1.03		/	/		
	Month	162.4	150	26	25	N/A	4.4	N/A	/	N/A	N/A	N/A	N/A	N/A	N/A	N/A	/	/	1.03		/	/	
Roche's Point Co. Cork	1-10	75.4	-	9	8	12.3	9.1	10.7	-	6.7	6	0	63	9	3.1	9	0	10.9	-	0.49	-	6	4
	11-20	42.0	-	6	5	10.8	5.6	8.2	-	3.5	13	0	38	1	-0.6	13	1	8.1	-	2.59	-	9	9
	21-end	37.8	-	6	3	8.8	4.0	6.4	-	0.3	27	0	21	0	-2.0	29	4	6.4	-	1.72	-	7	6
	Month	155.2	165	21	16	10.6	6.2	8.4	-0.4	0.3	27	0	122	10	-2.0	29	5	8.5	+0.2	1.60	71	7	19
Glencolumbkille Co. Donegal	1-10	56.6	/	8	6	11.1	5.5	8.3	/	2.0	5	0	39	0	-6.0	3	5	/	/	1.62	/	4	/
	11-20	64.7	/	10	10	9.4	5.0	7.2	/	3.5	14	0	28	0	-3.5	15	8	/	/	0.68	/	8	/
	21-end	59.8	/	9	8	7.9	N/A	N/A	/	N/A	N/A	N/A	0	-6.0	24	8	/	/	0.98	/	4	/	
	Month	181.1	/	27	24	9.5	N/A	N/A	/	N/A	N/A	N/A	0	-6.0	3	21	/	/	1.09	/	5	/	
Glenties Co. Donegal	1-10	49.6	-	9	8	11.2	5.0	8.1	/	-0.5	3	1	37	0	-2.5	3	2	/	/	1.14	/	/	/
	11-20	79.6	-	10	10	9.2	3.2	6.2	/	1.6	15	0	19	0	-1.0	14	4	/	/	0.62	/	/	/
	21-end	58.1	-	9	8	6.8	0.1	3.5	/	-2.5	24	5	4	0	-4.0	26	7	/	/	0.77	/	/	/
	Month	187.3	126	28	26	9.1	2.8	5.9	/	-2.5	24	6	60	0	-4.0	26	13	/	/	0.84	/	/	/

Notes on the tables in January issue

TABLE 1 (Continued)

November 1982

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 ⁻¹)	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 e Co. Donegal	1-10	38.5	-	8	6	11.7	7.4	9.5	-	4.7	3	0	51	3	2.2	3	0	8.8	-	1.43	-	9	4
	11-20	55.4	-	10	9	10.1	4.8	7.5	-	1.1	14	0	31	0	-0.2	14	1	6.5	-	0.69	-	14	10
	21-end	41.2	-	9	8	7.8	3.4	5.6	-	1.5	24	0	13	0	-2.5	24	3	4.7	-	1.43	-	10	8
	Month	135.1	129	27	23	9.9	5.2	7.5	-0.4	1.1	14	0	95	3	-2.5	24	4	6.7	-0.2	1.18	70	11	22
Casement Aerodrome Co. Dublin	1-10	78.2	-	8	5	12.5	7.4	10.0	-	3.7	2	0	56	7	-0.3	2	1	9.7	-	1.05	-	7	7
	11-20	27.0	-	10	8	9.6	3.5	6.6	-	-0.1	15	1	23	1	-3.2	15	4	6.3	-	2.57	-	10	9
	21-end	21.1	-	5	4	7.6	2.0	4.8	-	-0.1	28	1	10	0	-3.7	29	7	4.2	-	2.19	-	8	4
	Month	126.3	186	23	17	9.9	4.3	7.1	+0.2	-0.1	15	2	89	7	-3.7	29	12	6.8	-	1.94	91	8	20
Dublin Airport e Co. Dublin	1-10	86.5	-	10	6	12.4	8.1	10.2	-	5.5	2	0	58	8	2.6	2	0	10.0	-	0.96	-	5	3
	11-20	15.6	-	9	6	9.8	3.8	6.8	-	0.7	15	0	25	1	-2.1	15	2	6.6	-	2.65	-	8	6
	21-end	14.2	-	5	3	7.9	1.9	4.9	-	-1.0	27	2	11	0	-3.9	29	7	4.4	-	2.78	-	6	2
	Month	116.3	166	24	15	10.0	4.6	7.3	-0.1	-1.0	27	2	95	8	-3.9	29	9	7.0	+0.5	2.13	98	6	11
Kinsealy Co. Dublin	1-10	84.2	-	10	8	12.5	7.9	10.2	/	4.5	2	0	58	5	-0.8	2	1	/	/	1.00	/	5	/
	11-20	15.7	-	7	5	N/A	N/A	N/A	/	N/A		N/A	N/A	N/A	N/A	N/A	N/A	/	/	2.58	/	7	/
	21-end	10.8	-	5	2	8.2	2.1	5.1	/	-1.0	29	3	14	0	-5.2	25	7	/	/	2.89	/	5	/
	Month	110.7	165	22	15	N/A	N/A	N/A	/	N/A		N/A	N/A	N/A	N/A	N/A	N/A	/	/	2.16	/	6	/
Galway Co. Galway	1-10	52.8	-	8	6	11.8	6.3	9.0	-	0.1	3	0	46	4	-0.9	3	1	9.2	-	1.06	-	5	3
	11-20	55.4	-	10	9	10.4	4.8	7.6	-	1.6	15	0	32	1	-3.1	15	2	7.3	-	1.98	-	8	9
	21-end	61.6	-	6	4	7.7	2.8	5.2	-	-1.3	27	1	11	0	-5.3	27	5	5.1	-	1.86	-	6	2
	Month	169.8	170	24	19	10.0	4.6	7.3	-0.3	-1.3	27	1	89	5	-5.3	27	8	7.2	-	1.63	76	6	14
Killarney (Muckross Hse) Co. Kerry	1-10	93.8	/	10	7	12.3	7.0	9.6	/	2.5	6	0	52	3	-2.5	6	1	/	/	0.59	/	/	/
	11-20	92.4	/	9	9	10.8	5.7	8.2	/	3.0	14	0	39	3	-2.7	15	3	/	/	0.93	/	/	/
	21-end	100.5	/	8	7	8.8	3.6	6.2	/	-1.2	27	2	20	0	-3.8	27	4	/	/	0.65	/	/	/
	Month	286.7	/	27	23	10.6	5.4	8.0	/	-1.2	27	2	111	6	-3.8	27	8	/	/	0.72	/	/	/
Cahiriveen e (Valentia Obsy.) Co. Kerry	1-10	65.2	-	8	7	12.5	6.7	9.6	-	2.8	3	0	52	6	0.0	3	0	9.7	-	1.03	-	5	4
	11-20	57.3	-	10	9	11.3	6.4	8.8	-	3.9	15	0	45	2	1.4	15	0	8.4	-	1.59	-	9	9
	21-end	67.9	-	9	7	9.2	4.1	6.7	-	-1.5	27	1	25	0	-4.0	27	2	6.7	-	0.87	-	7	8
	Month	190.4	132	27	23	11.0	5.7	8.4	-0.7	-1.5	27	1	122	8	-4.0	27	2	8.2	-0.1	1.16	59	7	21

Notes on the tables in January issue

TABLE 1 (Continued)

November 1982

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 ⁻¹)	DAYS WITH GALE GUSTS	
						MEAN MAX.	MEAN MIN.	MEAN DAILY	ANT. 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
Ardfert (Liscahane) Co. Kerry	1-10	58.3	/	9	8	12.2	5.8	9.0	/	0.1	3	0	46	2	-2.2	6	3	/	/	1.03	/	/	/
	11-20	61.1	/	10	9	10.5	5.7	8.1	/	3.0	15	0	37	2	-3.6	15	1	/	/	1.13	/	/	/
	21-end	61.8	/	7	7	8.8	3.2	6.0	/	-1.7	27	1	18	0	-7.1	27	5	/	/	1.27	/	/	/
	Month	181.2	/	26	24	10.5	4.9	7.7	/	-1.7	27	1	101	4	-7.1	27	9	/	/	1.14	/	/	/
Ballymore Co. Kildare	1-10	66.7	/	8	8	11.5	5.7	8.6	/	1.7	3	0	42	0	-1.9	2	3	/	/	0.56	/	4	/
	11-20	30.2	/	8	7	9.0	3.0	6.0	/	-1.4	15	1	18	0	-7.0	15	4	/	/	1.50	/	7	/
	21-end	15.7	/	7	4	7.0	0.7	3.9	/	-2.3	27	5	6	0	-8.0	29	7	/	/	1.58	/	4	/
	Month	112.6	144	23	19	9.2	3.2	6.2	/	-2.3	27	6	66	0	-8.0	29	14	/	/	1.21	/	5	/
Kilkenny e Co. Kilkenny	1-10	68.4	-	9	8	12.4	7.9	10.2	-	4.6	6	0	58	7	0.6	6	0	9.9	-	0.50	-	4	3
	11-20	24.4	-	9	6	10.1	3.2	6.7	-	-1.5	13	1	25	1	-5.6	13	4	6.2	-	2.06	-	6	6
	21-end	25.8	-	5	3	8.0	0.2	4.1	-	-4.5	27	4	9	0	-10.6	27	8	4.0	-	1.76	-	3	3
	Month	118.6	148	23	17	10.2	3.8	7.0	+0.1	-4.5	27	5	91	7	-10.6	27	12	6.7	+0.4	1.44	68	4	12
Mooncoin (Silverspring) Co. Kilkenny	1-10	86.6	/	10	8	12.2	8.0	10.1	/	4.0	6	0	57	4	-0.7	6	1	/	/	0.93	/	/	/
	11-20	40.4	/	9	4	10.3	4.3	7.3	/	-1.4	13	1	31	2	-6.1	13	4	/	/	2.24	/	/	/
	21-end	25.0	/	5	3	8.2	0.4	4.3	/	-4.1	29	6	10	0	-8.5	29	9	/	/	1.64	/	/	/
	Month	152.0	162	24	15	10.2	4.2	7.2	/	-4.1	29	7	98	6	-8.5	29	14	/	/	1.60	/	/	/
Ballinamore Co. Leitrim	1-10	52.1	/	8	6	11.0	4.8	7.9	/	-1.1	2	2	36	0	-2.1	2	2	/	/	1.30	/	3	/
	11-20	61.6	/	10	8	9.0	3.3	6.1	/	-0.1	13	1	19	0	-1.6	13	3	/	/	1.42	/	5	/
	21-end	51.6	/	7	7	6.9	0.5	3.7	/	-2.0	24	4	3	0	-4.0	27	6	/	/	1.85	/	3	/
	Month	165.3	160	25	21	8.9	2.9	5.9	/	-2.0	24	7	58	0	-4.0	27	11	/	/	1.52	/	4	/
Ardee (Boharnamoe) Co. Louth	1-10	67.0	/	8	7	N/A	4.4	N/A	/	-1.2	3	1	N/A	N/A	-4.9	4	3	/	/	/	/	/	/
	11-20	20.6	/	9	7	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	-8.2	16	6	/	/	/	/	/	/
	21-end	19.2	/	6	5	N/A	0.1	N/A	/	-1.6	29	6	N/A	N/A	-9.3	29	8	/	/	/	/	/	/
	Month	106.8	200	23	19	N/A	N/A	N/A	/	N/A	N/A	N/A	N/A	N/A	-9.3	29	17	/	/	/	/	/	/
Ballinrobe (Creagh) Co. Mayo	1-10	79.9	/	8	6	12.1	3.1	7.6	/	-1.9	3	2	32	0	-3.3	2	3	/	/	1.37	/	3	/
	11-20	67.2	/	10	10	9.9	3.4	6.6	/	0.7	13	0	23	0	-2.4	13	4	/	/	1.47	/	6	/
	21-end	62.7	/	8	7	7.8	0.8	4.3	/	-4.5	27	4	7	0	-6.7	27	6	/	/	1.06	/	3	/
	Month	209.8	/	26	23	9.9	2.4	6.2	/	-4.5	27	6	62	0	-6.7	27	13	/	/	1.30	/	4	/

Notes on the tables in January issue

TABLE I (Continued)

November 1982

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		
						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	32.6	-	7	6	11.7	6.1	8.9	-	2.0	3	0	45	2	-1.8	3	2	9.3	-	2.04	-	6	2
	11-20	58.9	-	10	10	10.5	4.7	7.6	-	3.0	14	0	32	0	0.5	13	0	7.6	-	1.17	-	10	9
	21-end	49.6	-	9	7	8.4	3.3	5.9	-	1.0	27	0	15	0	-1.8	27	3	6.0	-	0.84	-	7	7
	Month	141.1	114	26	23	10.2	4.7	7.5	-0.8	1.0	27	0	93	2	-1.8	3	5	7.6	0.0	1.35	71	8	18
Claremorris Co. Mayo	1-10	57.4	-	7	7	11.3	4.9	8.1	-	-1.7	3	1	37	2	-4.8	3	3	8.4	-	1.24	-	4	3
	11-20	50.2	-	10	10	9.9	3.3	6.6	-	1.1	13	0	22	0	-2.9	13	3	6.3	-	-1.09	-	8	8
	21-end	42.0	-	6	6	7.1	1.8	4.5	-	-1.6	27	1	7	0	-7.1	27	6	4.1	-	1.01	-	5	4
	Month	146.9	137	23	23	9.5	3.3	6.4	-0.2	-1.7	3	2	66	2	-7.1	27	12	6.3	-0.2	1.11	57	6	15
Glenamoy Co. Mayo	1-10	39.2	-	7	7	11.7	3.9	7.8	/	-1.7	3	1	34	0	-4.0	3	2	/	/	1.77	/	/	/
	11-20	68.5	-	10	10	9.5	4.2	6.8	/	2.4	13	0	24	0	-0.4	13	1	/	/	0.94	/	/	/
	21-end	47.7	-	8	7	7.8	4.6	5.2	/	0.0	27	0	10	0	-1.6	27	6	/	/	0.81	/	/	/
	Month	155.4	109	25	24	9.7	3.6	6.6	/	-1.7	3	1	68	0	-4.0	3	9	/	/	1.17	/	/	/
Dunsany (Grange) Co. Meath	1-10	73.1	-	8	8	11.1	6.1	8.6	/	1.4	2	0	42	0	N/A	N/A	/	/	0.81	/	N/A	/	
	11-20	24.3	-	8	7	9.0	3.2	6.1	/	-1.6	15	1	20	0	-8.5	15	4	/	/	2.39	/	N/A	/
	21-end	14.3	-	6	4	6.9	0.4	3.6	/	-2.5	27	5	6	0	-8.5	27	7	/	/	2.18	/	N/A	/
	Month	111.7	147	22	19	9.0	3.2	6.1	/	-2.5	27	6	67	0	N/A	N/A	/	/	1.79	/	N/A	/	
Clones Co. Monaghan	1-10	48.1	-	7	7	10.7	5.5	8.1	-	0.1	2	0	38	1	-3.4	2	2	8.9	-	0.70	-	4	2
	11-20	42.0	-	9	9	9.4	2.9	6.1	-	0.6	13	0	19	0	-3.2	13	3	6.8	-	1.56	-	6	7
	21-end	40.5	-	6	5	7.0	1.2	4.1	-	-1.2	29	5	6	0	-6.0	29	6	4.7	-	1.68	-	4	2
	Month	130.6	156	22	21	9.0	3.2	6.1	-0.2	-1.2	29	5	63	1	-6.0	29	11	6.8	+0.8	1.31	73	5	11
Birr Co. Offaly	1-10	38.7	-	9	9	12.0	6.7	9.3	-	2.4	3	0	50	5	-1.8	2	2	9.3	-	0.40	-	3	2
	11-20	33.3	-	8	8	10.1	4.0	7.1	-	2.1	13	0	27	0	-1.7	13	3	6.6	-	1.67	-	5	6
	21-end	34.9	-	5	4	7.8	1.3	4.5	-	-3.7	27	3	11	0	-8.0	27	6	4.3	-	2.01	-	3	2
	Month	106.9	146	22	21	9.9	4.0	7.0	+0.2	-3.7	27	3	87	5	-8.0	27	11	6.7	+0.3	1.36	67	4	10

Notes on the tables in January issue

TABLE 2 GLOBAL SOLAR RADIATION

STATION	PERIOD	AMOUNT
		Joule/cm ²
Malin Head Co. Donegal	1-10	2399
	11-20	1887
	21-end	1930
	Month	6216
Dublin Airport Co. Dublin	1-10	1954
	11-20	3200
	21-end	2522
	Month	7696
Gahirciveen (Valentia Obs.) Co. Kerry	1-10	2706
	11-20	2842
	21-end	2155
	Month	7703
Kilkenny Co. Kilkenny	1-10	2125
	11-20	3350
	21-end	2363
	Month	7838
Belmullet Co. Mayo	1-10	3369
	11-20	2334
	21-end	2078
	Month	7781
Clones Co. Monaghan	1-10	2293
	11-20	2565
	21-end	2121
	Month	7070
Birr Co. Offaly	1-10	2714
	11-20	3255
	21-end	2871
	Month	8840

TABLE 3 POTENTIAL EVAPOTRANSPIRATION (P.E.) AND SOIL MOISTURE November 1982

STATION	PERIOD	SOIL MOISTURE (mm)			
		P.E. (mm) Amount	Deficit	Accumulated Deficit	Surplus
Carlow (Oak Park) Co. Carlow	1-10	11.5	-	0	83
	11-20	0.9	-	0	18
	21-end	-4.2	-	0	53
	Month	8.2	-	-	-
Kinsealy Co. Dublin	1-10	28.6	-	0	65
	11-20	11.6	-	0	8
	21-end	3.7	-	0	7
	Month	43.9	-	-	-
Gahirciveen (Valentia Obs.) Co. Kerry	1-10	-1.6	-	0	75
	11-20	2.5	-	0	46
	21-end	-4.1	-	0	87
	Month	-3.2	-	-	-
Ballinamore Co. Leitrim	1-10	-0.3	-	0	33
	11-20	-0.2	-	0	60
	21-end	0.3	-	0	7
	Month	-0.2	-	-	-
Glenamoy Co. Mayo	1-10	4.2	-	0	35
	11-20	-0.3	-	0	69
	21-end	-2.0	-	0	50
	Month	1.9	-	-	-
Johnstown Castle Co. Wexford	1-10	3.7	-	0	99
	11-20	9.6	-	0	33
	21-end	1.7	-	0	25
	Month	15.0	-	-	-

special topic

"SKILL" IN WEATHER FORECASTING

Meteorological services perform a number of functions, in addition to providing weather forecasts, but it is on their performance in that particular field that they are usually judged. The individual member of the public assesses the accuracy of a forecast subjectively. He will remember the occasions when the forecast was incorrect, long after the event, but will he remember equally clearly the occasions when it was correct?

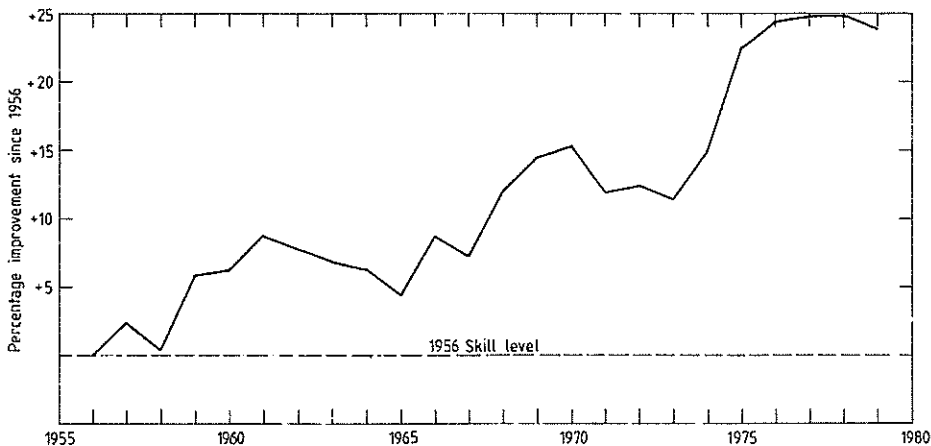
To assess, therefore, the accuracy of forecasts and also to determine if this accuracy is increasing over the years, some procedure is necessary which will perform an objective "Skill Score". To devise a procedure which will take into account the many variations which can occur is virtually impossible to operate in practice. Instead some simpler method must be used such as the alternatives "rain" or "no rain" being reported in a specified period over a particular area.

Whatever procedure is adopted must also take into account the fact that, purely by chance, forecasts will sometimes be correct; also that if a forecaster is required to forecast some quantitative elements, such as temperature, and chooses the appropriate climatological figure he will also often be close to the mark. The procedure adopted must eliminate these "successes" as they cannot be properly regarded as a result of skill in forecasting.

In the Irish Meteorological Service for many years now a fairly simple skill test has been performed on the 24-hour forecasts for the country, broadcast each evening on R.T.E. For the purpose of this test the forecast is divided into individual provinces. In each province the forecaster estimates "rain"/"no rain" in the periods 00-06, 06-18 and 18-24 hours. He estimates the greatest amount of sunshine, in 0-33%, 34-66% or 67-100% of the total possible amount from sunrise to sunset. He also estimates the minimum and maximum temperatures which will occur during the night and coming day.

Verification of his estimates is carried out afterwards by reference to the reports from the 15 synoptic stations manned by the Service.

Results over the years show that there has been a trend towards greater skill over the past 25 years as shown in the figure below in the case of precipitation forecasting. In this figure the five year running means of the annual skill scores for all of Ireland taken together is compared to the skill level achieved in the mid-nineteen fifties. Despite the variations in the slope of the graph from time to time, there has been an overall improvement in skill in the forecasting of precipitation of some 24% over almost the same number of years. This improvement in skill is likely to mirror a corresponding achievement in the accuracy of forecasts, leading to a better service for all. Current yearly scores suggest that, following the levelling off (in the graph) of recent years, a further upswing is now taking place.



Changes in the level of skill in forecasting precipitation in Ireland over 24 years using the 1956 skill level as base line.