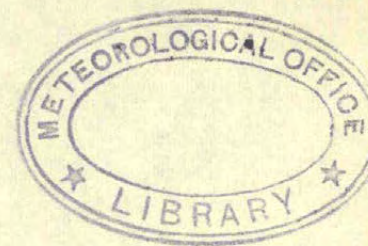


METEOROLOGICAL OFFICE



# THE MONTHLY WEATHER REPORT 1963

LONDON: HER MAJESTY'S STATIONERY OFFICE

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# THE MONTHLY WEATHER REPORT, 1963

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# INTRODUCTION

The *Monthly Weather Report* gives a résumé of observations from stations in the United Kingdom. Particulars of the methods adopted in taking the observations are given in the *Observer's Handbook*.

The isopleths on the maps of pressure in this volume have been extended over the Irish Republic from data kindly supplied by the Director of the Meteorological Service, Dublin.

## INFORMATION FOR PREVIOUS YEARS

Monthly summaries of observations made at stations in connection with the Meteorological Office were first published in 1869 in the *Quarterly Weather Report*, a publication issued for each of the years 1869 to 1880. The *Monthly Weather Report* commenced in 1884. The gap is bridged for synoptic stations by a supplement to the Daily Weather Report and for other stations by tables in *Observations at Stations of the Second Order*. A brief history of the development of the *Monthly Weather Report* will be found in the 1915 volume. Most of the changes made in later years are indicated in subsequent volumes. A note on the revision to the *Monthly Weather Report* in 1956 is included in the Introduction to the 1955 volume.

## GENERAL ARRANGEMENT OF THE REPORT

The arrangement of each issue of the *Monthly Weather Report* is as follows:

(a) General remarks on the development of the weather over the British Isles under a brief heading descriptive of the special characteristics of the month.

(b) Table I. Summaries by Districts, of air temperature, of earth temperature, of rainfall and of duration of bright sunshine, based on observations at the 'district value' stations.

(c) Table II. Summary of autographic records of wind.

(d) A plate of four maps showing:

(i) The monthly distribution of pressure, based on observations at selected stations at 9 h., together with the average distribution of pressure at 9 h. for the month over the period 1921-1950.

(ii) The distribution of mean temperature at sea level over the land and mean sea temperature in coastal waters.

(iii) The distribution of bright sunshine in hours per day.

(iv) Anomalies of 1 foot earth temperature.

(e) A full-page map showing by isohyetal lines the distribution of the month's precipitation. This map is based on data from about 2,500 stations.

(f) Table III, giving for individual stations, summaries of extreme and mean air temperature, of mean earth temperature at 1 foot and 4 feet, of rainfall and sunshine, and of weather observations. In the case of air temperature, rainfall and sunshine, differences from average or percentages of average are given when available.

(g) Table IV, giving summaries of the observations of pressure, temperature, humidity, cloud, visibility and wind, made at fixed hours which are indicated in the table for each station.

Tables III and IV together include the items comprised in the international form of monthly climatological summary, the Form B of the Report of the International Meteorological Committee, 1874; and they give, in addition, information regarding the duration of bright sunshine, mean earth temperature at 1 foot and 4 feet (both from 1906), the number of observations of wind of force 4-5 and 6-7 on the Beaufort Scale (from 1937), of winds of force 1-3 (from 1923), the number of days of fog (from 1906), the number of observations of different degrees of visibility (from 1923), the number of days of air frost (from 1956), the number of days of ground frost (from 1908) and the pressure at mean sea level (from 1912).

(h) Table XIII. Solar radiation and intensity of daylight at certain stations.

(i) Table VIII. Monthly frequencies of maximum and minimum temperatures at 20 selected stations.

(j) Additions and corrections to Tables.

The Annual Summary of each volume of the *Monthly Weather Report* includes remarks, maps and tables as above for the year as a whole, and the following additional tables:

(k) Table V. Highest and lowest maximum and minimum temperatures during the year at each station.

(l) Table VI. Monthly frequencies of duration of bright sunshine at 20 selected stations.

(m) Table VII. Frequency of rainfall between given limits during the year at 30 selected stations.

(n) Table IX. The annual table corresponding to Table II in the monthly issues.

(o) Table X. The number of hours during the year with gusts exceeding (a) 33 kt and (b) 47 kt at each anemograph station.

(p) Table XI. Occasions of 'strong gales' during the year.

(q) Table XII. Dates on which gusts of 48 kt or more occurred during the year.

## NOTES ON TABLES

### TABLE I. DISTRICT VALUES

The District Values of this table are computed from the statistics for selected individual stations set out in Table III.

¶§ The stations used for computing District Values of rainfall and temperature are shown in Table III by the sign ¶ and those used for computing District Values of sunshine by the sign §. A list of these stations and of the stations used in computing the District Values of earth temperature is given on page vi.

(iii)



The differences from and percentages of average for air temperature, earth temperature, rainfall and sunshine are the means of the corresponding values for the selected stations. The highest and lowest air temperatures for the District may refer to any station in Table III.

From January 1964 the values for England and Wales, for Scotland and for Northern Ireland will be added to the table, and the table will be moved to page 1 of the Monthly Reports.

TABLE II. SUMMARY OF AUTOGRAPHIC RECORDS OF WIND

About half the records used in the preparation of this table are made by pressure-tube anemographs, and at half the stations electrical cup recorders have been brought into use. The classification adopted for the 'Distribution of mean hourly values of wind speed' is based on the specification of the Beaufort scale of wind force (see *Observer's Handbook*, 1956 ed., page 74). For an anemograph complying with the specification 'head 33 ft. (10 m.) above ground in the open' the several columns correspond to wind speeds (measured over an hour) equivalent to Force 8 and above (gales), Forces 6 and 7 (strong winds), Forces 4 and 5 (moderate breezes), Forces 2 and 3 (light breezes), Forces 1 and 0 (nearly calm). Some information as to the nature of the actual exposures is given in the 'Height' columns. The 'Effective Height' is an estimate of the height at which an anemometer would record an equal mean velocity in a situation free from obstructions.

The duration in each category is the number of 60-minute periods ended at exact hours G.M.T., in each of which the mean wind velocity was between the stated limits. The 'Highest Hourly Wind' similarly refers to the mean for a period of 60 minutes ended at an exact hour G.M.T. Under the heading 'Veer from N.' the direction from which the wind was blowing is stated, the entry for an east wind being 090°, that for a south wind 180°, and so on.

TABLE III. SUMMARY OF OBSERVATIONS AT TERMINAL HOURS

*Temperature.* The terminal hours of observation are given for each station. When the terminal hours for maximum and minimum temperature are stated independently the temperatures refer to intervals of 24 hours. If the maximum thermometer is read at 9 h. the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash thus, 21-9, the day-maximum for the period 9 h. to 21 h. and the night-minimum for the period 21 h. to 9 h. are reported and are utilised in determining the means for the month; in such cases the day-minimum and night-maximum temperatures are also read by the observers, so that the absolute maximum and minimum temperatures for the month are obtained.

The measurements of air temperature are made in louvered screens over short grass in the open, the bulbs of the thermometers being approximately 4 feet above ground. At *Kew Observatory*, the thermometers are 10 feet above ground in a louvered screen on the north wall.

Measurements of earth temperature are obtained from thermometers hung vertically in steel tubes sunk in the ground, the bulb of the thermometer being at the appropriate depth.

*Rainfall.* The daily amounts are for the 24 hours beginning at 9 h. G.M.T. 'Rainfall' includes all forms of precipitation. The number of days of precipitation is counted with reference to the limit .01 inch or 0.2 mm., and also with reference to the limit .04 inch or 1 mm. The lower limit excludes 'Traces' of precipitation, very occasionally it is passed when the precipitation is only in the form of dew.

*Weather.* The number of days of Precipitation, Snow or Sleet, Hail, Ice or Snow Pellets, etc., Thunder heard and Gale are counted irrespective of the hour at which the phenomena occur. Except for 'Precipitation' the day is the period midnight to midnight G.M.T.

For the purpose of this summary 'Hail', which includes Soft Hail, is defined as small balls or pieces of ice, with diameter from 5 mm. upwards, falling either separately or agglomerated into irregular lumps. 'Ice or Snow Pellets etc.' include ice pellets and snow pellets up to 5 mm. in diameter and also ice grains and ice needles. 'Snow lying' refers to occasions when half or more of the ground representative of the station (see *Observer's Handbook*, 1956 ed., page 78) is covered with snow at 9 h. G.M.T. The entry of 'fog' implies that regular observations of the range of vision are made. Days of fog are those on which the range of vision is less than 1,100 yards at 9 h. G.M.T. Any variability of the observation hour may exercise an important effect upon the statistics of fog frequency. 'Gale' is a wind of Force 8 or upwards on the Beaufort scale. An 'air frost' is entered when the screen minimum temperature, read either at the terminal hour of 9 h. or 21 h., fell below 0.0°C.

*Sunshine.* The sunshine recorder is generally insensitive to sunshine when the sun is at an altitude of less than 3°.

Where the symbol 'S' occurs it indicates that obstacles obstruct the sun's rays during more than 5 per cent of the period when it is over 3° above the horizon.

TABLE IV. SUMMARY OF OBSERVATIONS AT FIXED HOURS

From January 1945 the hours of observation were changed at certain stations from 0, 6, 12, 18 to 3, 9, 15, 21. From that date departures from the average pressure at 9 h. have been given.

*Mean Air Pressure* is expressed in millibars (1 millibar = 1,000 dynes per square centimetre = the pressure due to .0295300 inch of mercury at 0°C. and standard gravity 980.665 cm/sec.<sup>2</sup>). The corrections for gravity, temperature and height have been applied to the barometer readings so as to obtain pressure at mean sea level.

*Humidity.* The values given depend on the readings of the dry- and wet-bulb thermometers in louvered screens (see above). The observations are reduced by Hygrometric Tables, based on a formula of Regnault, issued by the Office and revised in 1961. At most stations the daily values of relative humidity and vapour pressure are found and the monthly means are computed therefrom. These stations are indicated by the letter 'H'. At the remaining stations the means of relative humidity and vapour pressure are derived from the monthly means of the dry-bulb and wet-bulb readings.

*Cloud Amount.* The proportion of sky covered with cloud is estimated on the scale 0 to 8, the entry '0' being equivalent to clear sky, '8' to overcast; '9' refers to 'sky obscured or cloud amount cannot be estimated'.

*Visibility.* The ranges, specified by international arrangement in metres, are given at the head of the table in yards and miles. Entries are underlined in the monthly tables and printed in italics in the Annual Summary, where there is no object within 10 per cent of the correct distance defining the lower limit of the range. From January 1964 this differentiation will be discontinued.



*Wind Summaries.* At stations where there are anemographs the mean speed over the 10 minutes ending at the hour (corrected to a height of 33 feet) is used; at other stations the frequencies are estimates, at the time of observation, of wind force on the Beaufort scale.

#### TABLE XIII. SOLAR RADIATION AND INTENSITY OF DAYLIGHT

The instruments used for the radiation records are Moll-Gorczynski Solarimeters. Meteorological Office pattern bimetallic actinographs may be used as standby instruments for recording total radiation. Illumination is measured by recording photometers of Kew Mk. III pattern.

If the records for any days are incomplete owing to instrumental or other faults the average daily value for complete days is taken, but if there are seven or more incomplete days during any month the record is not published. When it is possible that the maximum for the month occurred on an incomplete day then no value for the maximum is given.

From January 1, 1957, the radiation values are measured in accordance with the International Pyrheliometric Scale (1956).

It is sometimes found advisable to apply revised calibration constants retrospectively; the figures published in Table XIII are therefore liable to correction.

From January 1, 1963, the non-linearity correction for the output of the cell in the daylight illuminometer has been applied directly to the hourly values—previously monthly mean values of the non-linearity correction were used. The errors in previous published values are small, maximum and minimum values being subject to systematic errors of up to 1 per cent too low (in June) for the maximum and up to 3 per cent too high in the case of the minimum (also in June).

#### HEIGHTS OF STATIONS ABOVE MEAN SEA LEVEL

The 'height of station above mean sea level' given in Table III refers to the height above Ordnance Datum of the ground on which the rain-gauge stands, while the 'height of barometer above mean sea level' given in Table IV refers to the height above Ordnance Datum of the barometer cistern. A note on the errors arising from differences between the old Liverpool Ordnance Datum and the Newlyn Ordnance Datum adopted in Great Britain in 1933 was included in the Introduction for 1953. From January 1, 1964, altitudes in Northern Ireland will refer to the Belfast Datum. On the average the Belfast Datum is about 1 foot lower than the Newlyn Datum.

#### AVERAGES

*Rainfall (Table III).* The averages refer to the period 1916–1950 and are 'weighted' if the record is not complete for that period. The averages of rainfall are given in M.O. 635.

*Pressure (Table IV).* The averages refer to 9 h. G.M.T. for period 1921–1950 and have been 'weighted' where necessary.

*Temperature and Sunshine (Table II).* The averages refer to the period 1931–1960 and are given in the following publications:

- (1) Averages of Temperature for Great Britain and Northern Ireland, 1931–1960 (M.O. 735).
- (2) Averages of Bright Sunshine for Great Britain and Northern Ireland, 1931–1960 (M.O. 743).

*Earth Temperatures 1 foot and 4 feet.* The averages refer to the period 1921–1950.

#### STANDARDS OF TIME

All time entries in the *Monthly Weather Report* are in Greenwich Mean Time. British Summer Time was in force from March 31 to October 27; during this period clocks were one hour in advance of Greenwich Mean Time. At all other times clocks referred to Greenwich Mean Time. Observations at all stations were made at the same hours by Greenwich Mean Time throughout the year.

#### INTERPOLATED VALUES

When the observations for any station for a month are incomplete and relevant data (e.g. records from neighbouring stations) which make it practicable to estimate approximate values for the missing observations are available, such approximate values may be used for completing summaries for stations published in Tables III and IV. Parts of a summary obtained in this way are shown in brackets thus: (11.3).

#### SEA TEMPERATURE

Mean sea-surface temperatures for the months of the year 1963 are shown by figures within circles on the temperature maps in the monthly issues of the Report. In general the values are derived from readings of ships under way, or from light vessels, certain of which send returns of sea temperature to the Meteorological Office.

#### ADDITIONAL RECORDS AVAILABLE FOR 1963

Some additional records for 1963 were received which are not summarised in the *Monthly Weather Report*. These include monthly climatological summaries for certain hours additional to those summarised in Table IV and, for certain stations, hourly tabulations of wind force and direction, rainfall duration and amount and duration of sunshine. The records for Scottish stations are available at the Meteorological Office, Edinburgh; those for stations in England and Wales at the Meteorological Office, Met. O. 3, Bracknell, Berks., and those for stations in Northern Ireland at the Meteorological Office, Belfast.



# DISTRICT VALUE STATIONS, 1963

The following are the stations, summaries from which are used for the computation of the district values of temperature, rainfall, earth temperature and sunshine given in Table 1; except for rainfall in Northern Ireland which is based on the 11 stations published in *British Rainfall*.\*

TR, Temperature and Rainfall; E1, Earth Temperature at 1 foot; E4, Earth Temperature at 4 feet; S, Sunshine

Dist.	Station	Element	Dist.	Station	Element	Dist.	Station	Element
0	Fortrose .. ..	TR - - S	3	Cambridge ..	TR E1 E4 S	7	Bidston .. ..	TR - - S
	Lerwick .. ..	- E1 E4 -		Gorleston ..	TR E1 E4 S		Nelson .. ..	- E1 E4 -
	Observatory ..	TR - - S		Rothamsted ..	TR E1 E4 S		Llandudno ..	TR - - S
	Onich .. ..	TR - - S		Shoeburyness ..	TR - - S		Manchester ..	- - -
	Stornoway ..	TR - - S		Sprowston ..	TR - - S		Airport .. ..	TR - - S
	Wick .. ..	TR - - S		Woburn .. ..	- E1 E4 -		Newton Rigg ..	TR - - S
1	Craibstone ..	TR - - S	4	Birmingham ..	TR - - S	8	Stonyhurst ..	TR - - S
	Dundee .. ..	TR - - S		Bradford .. ..	TR E1 E4 -		Wrexham .. ..	- E1 E4 -
	Edinburgh ..	TR - - S		Buxton .. ..	- E1 E4 -		Long Ashton ..	TR - - S
	Marchmont ..	TR - - S		Huddersfield ..	- - - S		Cardiff .. ..	TR E1 E4 S
	Nairn .. ..	TR - - S		Nottingham ..	TR - - S		Falmouth .. ..	TR - - S
	Arbroath .. ..	- - - S		Oxford .. ..	TR E1 E4 S		Ilfracombe ..	- E1 E4 -
6	Dumfries .. ..	TR E1 E4 S	5	Raunds .. ..	- E1 E4 -		Plymouth .. ..	- E1 E4 -
	Eskdalemuir ..	TR - - S		Ross-on-Wye ..	TR E1 E4 S		Llandrindod Wells	TR - - S
	Kilmarnock ..	- E1 E4 -		East Malling ..	TR - - S		Swansea .. ..	- E1 E4 -
	Paisley .. ..	- E1 E4 -		Hastings .. ..	TR E1 E4 S		Teignmouth ..	TR - - S
	Renfrew .. ..	TR - - S		Kew Observatory	TR E1 E4 S		NORTHERN IRELAND	
	Rothsay .. ..	TR - - S		Margate .. ..	- E1 E4 -		Aldergrove ..	T - - S
2	Stirling .. ..	- E1 E4 -		Porton .. ..	TR - - S		Armagh .. ..	T - - S
	Tiree .. ..	TR - - S		Southampton ..	TR - - S		Ballykelly ..	T - - S
	Cockle Park ..	TR - - S		Wisley .. ..	- E1 E4 -		Garvagh .. ..	T - - S
	Cranwell .. ..	TR - - S					Hillsborough ..	- - - S
	Durham .. ..	TR E1 E4 S						
	Hull .. ..	- E1 E4 -						
	Scarborough ..	TR - - S						
	York .. ..	TR E1 E4 S						

During the first three months of 1963 Bath was a district value station in District 8, but was replaced by Long Ashton in April.

## DISTRICT VALUE STATIONS, 1964

From January 1, 1964, Castle Archdale Forest will be used as a fifth district value station for temperature and sunshine in Northern Ireland.

## CORRECTIONS TO TABLES IX IN THE ANNUAL SUMMARIES OF THE MONTHLY WEATHER REPORTS FOR THE YEARS 1953, 1956 AND 1959

1953

Lerwick: Number of days 34 kt or more. Delete '36'; substitute '35'.

1956

South Shields: Distribution of Mean Hourly Values of Wind Speed, 4-10 kt. Delete '3547'; substitute '3857'.

1959

Avonmouth: Distribution of Mean Hourly Values of Wind Speed.

22-33 kt: Duration. Delete '410'; substitute '409'.

11-21 kt: Delete '2506'; substitute '2507'.

## MONTHLY WEATHER REPORT, 1963

September-December 1963 reports should all read above text 'Crown Copyright 1964'.

October and November reports should be numbered: Volume 80 numbers 10 and 11 respectively.

## MONTHLY WEATHER REPORT, NOVEMBER 1963: CORRECTION TO TEXT

In text on page 161 of November 1963 Report, under Temperature, extreme minimum in England and Wales should read: '-8.3°C at Moor House on 17th and 21st.'

## MONTHLY WEATHER REPORT, 1963: EDINBURGH (BLACKFORD HILL)

From January 1963 published wind records are from an electrical anemograph, cups 50 ft. above the ground. From August to December 1962, the old pressure-tube and the new electrical anemographs were both in operation and their readings were compared.

Wind directions were not appreciably different. Hourly mean speeds recorded by the electrical anemograph were higher by approximately the following amounts:

020-070	080-160	170-310	320-010	degrees
30	20	10	15	per cent

Gust speeds are also higher, in general by about 15-20 per cent, a considerable part of this being attributable to the pressure-tube instrument having only  $\frac{1}{2}$  inch diameter pipes.

## MONTHLY WEATHER REPORT, 1963: STATION NAMES

From January 1963 various station names were amended to bring them into line with the names used for the same stations in *British Rainfall*. The amendments were listed in M.O. 722 *Monthly Weather Report* 1962 Introduction.

\*Meteorological Office; British Rainfall, London



TABLE XIII. SOLAR RADIATION AND ILLUMINATION: CORRECTIONS

Station	Total Radiation on a Horizontal Surface Mw. hr/cm <sup>2</sup>						Diffuse Radiation on a Horizontal Surface Mw. hr/cm <sup>2</sup>						Total Illumination on a Horizontal Surface Kilo Lux-hours					
	Max.	Date	Min.	Date	Daily mean	No. of days	Max.	Date	Min.	Date	Daily mean	No. of days	Max.	Date	Min.	Date	Daily mean	No. of days
<b>ABERPORTH</b>																		
1957 July									68	21								
August			134	25					113	25								
September	504	7					109	4			108.5							
1961 October							102				59.9							
November							64	7			36.4							
December							77				50.9							
1962 January							145				87.4							
February			38		283.3		245				142.3							
March							312				184.9							
April							368				274.0							
May							420				278.0							
June							403				308.4							
July							324				213.1							
August							270				169.5							
September							153				104.7							
October							99				45.6							
November							73				35.5							
December							84				43.5							
1963 January							125				88.0							
February							246				146.5							
March							371				206.1							
April							404		173	27	276.2							
May							442				286.0							
June																		
<b>CAMBRIDGE</b>																		
1957 March							234	31	48	6	134.6	24						
April	648				325.5	27	294	5	121	29	194.9	27						
May	733		107		419.3	31	302		102		238.0	31						
June	754		213		540.9		350		139		214.3							
July	603		224	11	373.3		300		196	23	259.2	29						
1958 December	102	1	12	26	47.3	26	71	9	11	26	40.0	21						
1959 January	154		16		71.5													
February	270		32		118.1													
April	622							15										
June	243		17		122.8													
1960 February	366		32		164.8													
March									68	5								
1961 March									48	16	186.7	30						
1962 April	614	22	51	16	313.5	30	339	24			40.8							
1964 January																		
<b>KINGSWAY</b>																		
1957 March													117					
1959 January			10	14	60.9				10	14	44.5		319	8			68.8	
February	282		19		88.2			26	19		65.6		392				99.1	
March									24		117.5		629		34			
April	543		48		306.7		326		38		191.3		840		49		311.1	
May	789		95		470.3						261.0		903	2	99		512.9	
June	823		221		513.5		441		153	17	292.9		840	4	258		582.5	
July	767		279		539.6								903		362		637.0	
August													756		196	11	502.2	
September															222		388.1	
October							180	7			105.0				48	11		
1963 October													345	9	27	31	162.6	31
November													161	4	18	29	81.4	30
<b>KEW</b>																		
1956 March																		
<b>ESKDALEMUIR</b>																		
1960 November																		
<b>LERWICK</b>																		
1956 June									72		244.3							
1957 April									63		262.7							
May									74		289.6							
July											273.8							
1960 May							380		147		223.9							
June							402		168		134.1							
July							414		155		137.1							
August							318		83									
September							241											
Year							414											



# MONTHLY WEATHER REPORT, 1963: LIST OF STATIONS

The following is a complete list of climatological stations in Tables III and IV and of anemograph stations in Table II; the last list was published in 1958. Stations which send in monthly returns of observations, but which are not published in the Report, are printed in italics.

In the tables of the *Monthly Weather Report* the stations are arranged in districts and counties; but in the following list the alphabetical order is adopted. The latitude and longitude of each station to the nearest minute are given (National Grid References can be supplied if required) and a column indicating the type of station has been added, according to the following scheme.

Observatories (O). These stations maintain continuous records of all meteorological elements and are staffed by Meteorological Office personnel.

Synoptic Stations. The observations from these stations are primarily used in preparing synoptic charts for weather forecasting, but climatological returns are also made. They are of two types:

(Sa) Stations manned by Meteorological Office personnel.

(Sb) Auxiliary stations manned by coastguards, lighthouse keepers etc.

Climatological Stations (C). These stations contribute observations made daily at 9 h. (G.M.T.) (and at certain stations at other times also) of temperature (wet and dry bulb), wind, cloud amount and weather, with the daily maximum and minimum temperature, the daily rainfall and remarks on the weather. Observations of visibility and records of sunshine are commonly made at these stations as well.

Agricultural Meteorological Stations (Ag). These are climatological stations participating in a scheme inaugurated by the Ministry of Agriculture, Fisheries and Food, and the Department of Agriculture for Scotland in co-operation with the Meteorological Office.

Health Resort Stations (H). These are climatological stations co-operating with the Meteorological Office under a health resort scheme. They make observations at 6 p.m. clock time (and in some cases at 9 a.m. clock time in addition when this differs from 9 h. G.M.T.) which are reported to the Meteorological Office by telegram for communication to the national press.

Anemograph Stations (A) provide summaries of wind speed and direction which are published in Table II of the *Monthly Weather Report*.

Sunshine Stations (Sun). Some stations report sunshine only, usually for special reasons of situation.

Station	Type	County	Lat.	Long.	Authority
Aber .. .. .	Ag	Caernarvon ..	53 14N	04 01W	Professor of Agriculture
Aberdeen .. .. .	C	Aberdeen ..	57 08N	02 08W	Town Clerk
Aberporth .. .. .	SaA	Cardigan ..	52 08N	04 34W	Meteorological Office
Aberystwyth .. .. .	H	Cardigan ..	52 25N	04 04W	Town Clerk
Aberystwyth P.B.S. .. .. .	Ag	Cardigan ..	52 25N	04 03W	Director, Plant Breeding Station
Abingdon .. .. .	SaA	Berkshire ..	51 41N	01 19W	Meteorological Office
Achaglachgach .. .. .	C	Argyll ..	55 49N	05 31W	Forestry Commission (Scotland)
Achany .. .. .	C	Sutherland ..	57 59N	04 25W	Forestry Commission (Scotland)
Achnagoichan .. .. .	C	Inverness ..	57 09N	03 48W	Nature Conservancy
Achnashellach .. .. .	C	Ross and Cromarty ..	57 29N	05 16W	Forestry Commission (Scotland)
Acklington .. .. .	Sa	Northumberland ..	55 18N	01 38W	Meteorological Office
Addington .. .. .	C	Surrey ..	51 32N	00 04W	Croydon Corporation
Aldeburgh .. .. .	Sb	Suffolk ..	52 09N	01 36E	Ministry of Transport (Coastguard Section)
Aldergrove .. .. .	SaA	Antrim ..	54 39N	06 13W	Meteorological Office
Alderney Airport .. .. .	C	Channel Isles ..	49 42N	02 13W	Clerk of the States of Alderney
Alice Holt Lodge .. .. .	Ag	Hampshire ..	51 11N	00 51W	Forestry Commission
Alwen .. .. .	C	Denbigh ..	53 04N	03 33W	Water Engineer, Birkenhead
Ambleside .. .. .	C	Westmorland ..	54 26N	02 57W	Lakes Urban District Council
Amersham .. .. .	A	Buckingham ..	51 22N	01 08W	U K Atomic Energy Authority
Ampleforth .. .. .	C	Yorks., N.R. ..	54 12N	01 05W	Rev. M. R. Everest, O.S.B., B.A.
Arbroath .. .. .	C	Angus ..	56 33N	02 35W	Town Council
Armagh .. .. .	C	Armagh ..	54 21N	06 39W	Director of Observatory
Ardalnaig .. .. .	C	Perth ..	56 32N	04 07W	M. K. Browne, Esq.
Askham Bryan .. .. .	Ag	Yorks., W.R. ..	53 57N	01 05W	Principal, Institute of Agriculture
Auchincruive .. .. .	Ag	Ayr ..	55 29N	04 34W	Secretary, W. Scotland Agricultural College
Auchterhouse .. .. .	CA	Angus ..	56 32N	03 04W	Dr. J. H. Brush
Avonmouth .. .. .	CA	Gloucester ..	51 30N	02 43W	Port of Bristol Authority
Aylesbury .. .. .	Ag	Buckingham ..	51 47N	00 47W	County Education Committee
Balerno .. .. .	C	Midlothain ..	55 52N	03 21W	Dr. A. D. Buchanan-Smith
Ballingry .. .. .	C	Fife ..	56 10N	03 19W	Headmaster, Ballingry Secondary School
Ballyhalbert .. .. .	C	Down ..	54 30N	05 29W	T. D. Boyd, Esq.
Ballykelly .. .. .	SaA	Londonderry ..	55 04N	07 01W	Meteorological Office
Ballypatrick Forest .. .. .	C	Antrim ..	55 10N	06 09W	Forestry Division
Balmacara .. .. .	C	Ross and Cromarty ..	57 17N	05 39W	Principal, Balmacara House
Balmoral .. .. .	C	Aberdeen ..	57 02N	03 12W	Major W. Haig, Estate Offices
Baltasound .. .. .	C	Zetland ..	60 46N	00 53W	S. S. S. Polson, Esq.
Banff .. .. .	C	Banff ..	57 40N	02 31W	Town Clerk
Bangor .. .. .	Sun	Down ..	54 39N	05 39W	Entertainments Manager
Bardsey Island Lighthouse .. .. .	Sb	Caernarvon ..	52 45N	04 48W	Trinity House
Bargrennan .. .. .	C	Kirkcudbright ..	55 04N	04 34W	Forestry Commission (Scotland)
Baronscourt Forest .. .. .	C	Tyrone ..	54 41N	07 27W	Forestry Division
Barr .. .. .	C	Ayr ..	55 13N	04 43W	Forestry Commission (Scotland)
Barrhead .. .. .	C	Renfrew ..	55 49N	04 23W	Burgh Surveyor
Bath (City Boys' School) .. .. .	C	Somerset ..	51 22N	02 22W	Senior Geography Master
Beaghs Forest .. .. .	C	Antrim ..	55 04N	06 11W	Forestry Division
Bedford .. .. .	A	Bedford ..	52 13N	00 29W	R.A.E., Bedford



Station	Type	County	Lat.	Long.	Authority
Bellingham	C	Northumberland	55 13N	02 18W	Sir Charles Morrison-Bell, Bart
Bell Rock Lighthouse	A	Angus	56 26N	02 24W	Northern Lighthouse Board
Belper	C	Derby	53 01N	01 29W	Headmaster, Herbert Strutt School
Benbecula	SaA	Inverness	57 28N	07 22W	Meteorological Office
Benenden Chest Hospital	C	Kent	51 03N	00 35E	Chief Medical Officer
Benmore (Forestry School)	Ag	Argyll	56 02N	04 59W	Forestry Commission (Scotland)
Benmore Younger Bot. Gdn.	C	Argyll	56 01N	04 59W	Regius Keeper, Royal Botanic Garden
Berwick-on-Tweed	C	Northumberland	55 46N	02 00W	Borough Surveyor
Bessbrook	Sun	Armagh	54 12N	06 24W	J. S. W. Richardson, Esq.
Bexhill	H	Sussex	50 50N	00 28E	Borough Council
Bidston Observatory	CA	Cheshire	53 24N	03 04W	Director of Observatory
Binbrook	Sa	Lincoln	53 26N	00 12W	Meteorological Office
Birmingham (King Edw. Schl.)	C	Warwick	52 27N	01 55W	Headmaster, King Edward's School
Blackbridge	C	Ross and Cromarty	57 42N	04 44W	North Scotland Hydro-Electric Board
Black Mountain	Sb	Antrim	54 35N	06 01W	Independent Television Authority
Blaenau Ffestiniog	C	Merioneth	52 59N	03 56W	Headmaster, County School
Blairgowrie	C	Perth	56 35N	03 21W	Parks Superintendent
Bletchley	C	Buckingham	52 00N	00 44W	Headmaster, Grammar School
Blyth Bridge	Ag	Peebles	55 42N	03 22W	Sec. Animal Breeding Research Organisation
Bodiam	C	Sussex	51 00N	00 33E	Guinness Hop Farms Ltd
Bognor Regis	H	Sussex	50 47N	00 41W	Urban District Council
Bolton	C	Lancashire	53 35N	02 27W	Corporation of Bolton
Boscombe Down	SaA	Wiltshire	51 10N	01 45W	Meteorological Office
Botwnnog	C	Caernarvon	52 51N	04 34W	Headmaster, Botwnnog School
Bournemouth	H	Hampshire	50 43N	01 53W	Medical Officer of Health
Bovingdon	Sa	Hertford	51 43N	00 32W	Meteorological Office
Bowhill	C	Selkirk	55 32N	02 54W	Factor, Buccleuch Estates Ltd
Boxworth	Ag	Cambridge	52 15N	00 01W	Director, Exp. Husbandry Farm
Bracknell	C	Berkshire	51 24N	00 44W	Meteorological Office
Bradford	C	Yorks., W.R.	53 49N	01 46W	Corporation of Bradford
Braemar	C	Aberdeen	57 00N	03 24W	J. C. Donaldson, Esq.
Bramham	Ag	Yorks., W.R.	53 52N	01 20W	Professor of Agriculture, Leeds University
Brawdy	CA	Pembroke	51 53N	05 09W	Commanding Officer, RNAS
Bridgnorth	Sun	Shropshire	52 32N	02 25W	H. E. Trevor, Esq.
Bridlington	H	Yorks., E.R.	54 06N	00 12W	Water Engineer and Manager
Brighton	H	Sussex	50 49N	00 08W	Engineer, Corporation Waterworks
Bromley	C	Kent	51 24N	00 01E	Borough Engineer
Bryn Adda	Ag	Caernarvon	53 13N	04 09W	Director, Exp. Horticultural Station
Buddon Ness	C	Angus	56 28N	02 44W	Dundee Harbour Trust
Bude	C	Cornwall	50 50N	04 33W	Urban District Council
Bugbrooke Mills	C	Northants	52 13N	01 00W	Messrs. Heygates Ltd
Bunhill Row	Sun	London	51 31N	00 05W	Thomas de La Rue & Co. Ltd
Burlingham	Ag	Norfolk	52 38N	01 30E	Norfolk Education Committee
Burnley	C	Lancashire	53 47N	02 15W	Medical Officer of Health
Bush House	Ag	Midlothian	55 51N	03 12W	Secretary, School of Agriculture
Buxton	C	Derby	53 15N	01 55W	Borough Librarian and Curator
Bwlchgwyn	C	Denbigh	53 04N	03 08W	Secretary, Wrexham & E. Denbigh Water Co.
Cairngorm	C	Inverness	57 08N	03 39W	Winter Sports Development Board
Caldecott	C	Leicester	52 31N	00 44W	Corby and District Water Co.
Callander	C	Perth	56 15N	04 13W	Town Clerk
Calshot	A	Hampshire	50 49N	01 18W	Southampton Harbour Board
Cambridge Botanic Gardens	C	Cambridge	52 12N	00 08E	Director, Botanic Gardens
Cambridge (N.I.A.B.)	Ag	Cambridge	52 13N	00 06E	Director, Nat. Inst. of Agric. Botany
Camden Square	C	London	51 33N	00 08W	Secretary, Royal Meteorological Society
Campbeltown	C	Argyll	55 26N	05 36W	Town Clerk
Camps Reservoir	C	Lanark	55 29N	03 35W	County Water Engineer
Cannich	C	Inverness	57 17N	04 49W	Forestry Commission (Scotland)
Cannington	Ag	Somerset	51 09N	03 04W	Principal, Somerset Farm Institute
Cape Wrath	Sb	Sutherland	58 37N	05 00W	Northern Lighthouse Board
Cardiff	C	Glamorgan	51 30N	03 10W	Medical Officer of Health
Cardington	SaA	Bedford	52 07N	00 25W	Meteorological Office
Carlisle	SaA	Cumberland	54 56N	02 57W	Meteorological Office
Carmarthen	Ag	Carmarthen	51 51N	04 18W	Carmarthenshire Education Committee
Carnoustie	C	Angus	56 30N	02 43W	Burgh Surveyor
Carnwath	C	Lanark	55 42N	03 38W	Lee and Carnwath Estates
Carrigans	Sb	Tyrone	54 40N	07 19W	R. J. MacConnell, Esq.
Castle Archdale Forest	C	Fermanagh	54 28N	07 42W	Forestry Division
Castle Douglas	C	Kirkcudbright	54 57N	03 53W	Imperial Chemical Industries Ltd
Cawood	Ag	Yorks., W.R.	53 50N	01 08W	Director, Exp. Husbandry Station
Ceinws	C	Montgomery	52 38N	03 50W	Forestry Commission
Chapelcross	A	Dumfries	55 01N	03 13W	Health and Safety Division, Chapelcross
Chapel-en-le-Frith	C	Derby	53 20N	01 55W	Works Chemist, Ferodo Ltd
Cheltenham	C	Gloucester	51 54N	02 03W	Town Clerk
Chesterfield	C	Derby	53 14N	01 25W	Headmaster, Chesterfield School
Chiseldon	C	Wiltshire	51 31N	01 42W	N. Brooks, Esq.
Chivenor	Sa	Devon	51 05N	04 09W	Meteorological Office
Christchurch	C	Hampshire	50 44N	01 47W	Chief Engineer, West Hants Water Co.
Chopwellwood	C	Durham	54 55N	01 47W	Forestry Commission
Church Stretton	Sun	Shropshire	52 31N	02 50W	Surveyor, U.D.C.
Cirencester	Ag	Gloucester	51 43N	01 57W	Principal, Royal Agricultural College
Clacton-on-Sea	H	Essex	51 47N	01 09E	Urban District Council
Clatteringshaws	Sun	Kirkcudbright	55 05N	04 16W	South Scotland Electricity Board
Clawton	C	Devon	50 40N	04 17W	W. Farmer, Esq.
Cleethorpes	H	Lincoln	53 33N	00 01W	Engineer and Surveyor



Station	Type	County	Lat.	Long.	Authority
Coatbridge .. .. .	C	Lanark .. .. .	55 51N	04 03W	Manager, Sewage Works
Cockle Park .. .. .	Ag	Northumberland ..	55 13N	01 41W	Professor of Agriculture, King's College
Coire Cas Shieling ..	C	Inverness .. .. .	57 08N	03 39W	Winter Sports Development Board
Colonsay .. .. .	C	Argyll .. .. .	56 05N	06 11W	Rt. Hon. Lord Strathcona
Coltishall .. .. .	Sa	Norfolk .. .. .	52 46N	01 21E	Meteorological Office
Colwyn Bay .. .. .	H	Denbigh .. .. .	53 17N	03 43W	Borough Treasurer
Compton .. .. .	Ag	Berkshire .. .. .	51 31N	01 15W	Agricultural Research Council
Cookstown .. .. .	Ag	Tyrone .. .. .	54 36N	06 45W	Loughtry Agricultural College
Corbridge .. .. .	C	Northumberland ..	54 59N	02 01W	Headmaster, County Secondary School
Corwen .. .. .	Ag	Merioneth .. .. .	52 57N	03 25W	Animal Breeding Research Organisation
Coryton .. .. .	CA	Essex .. .. .	51 30N	00 31E	Refinery Manager, Mobil Oil Co.
Costa .. .. .	C	Orkney .. .. .	59 08N	03 09W	John Mill, Esq.
Coventry .. .. .	C	Warwick .. .. .	52 23N	01 31W	Medical Officer of Health
Craibstone .. .. .	Ag	Aberdeen .. .. .	57 11N	02 12W	Secretary, N. Scotland Agricultural College
Craighouse .. .. .	C	Argyll .. .. .	55 51N	05 57W	Forestry Commission (Scotland)
Cranwell .. .. .	SaA	Lincoln .. .. .	53 02N	00 30W	Meteorological Office
Credenhill .. .. .	C	Hereford .. .. .	52 50N	02 46W	RAF, Hereford
Creighton's Green ..	C	Down .. .. .	54 38N	05 47W	T. Boyd, Esq.
Cromer .. .. .	H	Norfolk .. .. .	52 56N	01 17E	Urban District Council
Crossgar .. .. .	C	Down .. .. .	54 24N	05 45W	T. J. MacMillan, Esq.
Crossmyloof .. .. .	C	Lanark .. .. .	55 50N	04 17W	Headmaster, Hutcheson's Grammar School
Crumbland Plantation ..	Ag	Monmouth .. .. .	51 43N	02 46W	Forestry Commission
Culdrose .. .. .	C	Cornwall .. .. .	50 05N	05 14W	Commanding Officer, RNAS
Cumbernauld .. .. .	C	Dunbarton .. .. .	55 58N	03 58W	Chief Architect and Planning Officer
Cupar .. .. .	C	Fife .. .. .	56 20N	02 59W	General Manager, British Sugar Corp Ltd
Cwm Dyli .. .. .	C	Caernarvon .. .. .	53 04N	04 00W	Nature Conservancy
Cwmystwyth .. .. .	Ag	Cardigan .. .. .	52 10N	03 42W	Director, Experimental Husbandry Farm
Dale Fort .. .. .	C	Pembroke .. .. .	51 42N	05 09W	Warden, Field Studies Council
Dall .. .. .	C	Perth .. .. .	56 41N	04 18W	Headmaster, Rannoch School
Dalmacallan .. .. .	C	Dumfries .. .. .	55 11N	03 53W	Forestry Commission (Scotland)
Dartford .. .. .	C	Kent .. .. .	51 26N	00 13E	Borough Engineer and Surveyor
Davidson's Mains .. ..	C	Midlothian .. .. .	55 58N	03 17W	J. W. Younger, Esq.
Deal .. .. .	Sb	Kent .. .. .	51 14N	01 24E	Ministry of Transport (Coastguard Section)
Derby .. .. .	C	Derby .. .. .	52 56N	01 28W	Borough Engineer and Surveyor
Derrynoyd Forest .. ..	C	Londonderry .. ..	54 47N	06 48W	Forestry Division
Dinnet .. .. .	Ag	Aberdeen .. .. .	57 07N	02 55W	North Scotland School of Agriculture
Dishforth .. .. .	Sa	Yorks., N.R. .. ..	54 08N	01 25W	Meteorological Office
Divis Mountain .. .. .	C	Antrim .. .. .	54 36N	06 00W	Queen's University, Belfast
Dore .. .. .	C	Yorks. .. .. .	53 19N	01 32W	Squadron Leader S. T. Whitaker
Douglas .. .. .	H	Isle of Man .. .. .	54 10N	04 29W	Borough Surveyor
Dounreay .. .. .	CA	Caithness .. .. .	58 35N	03 45W	U.K. Atomic Energy Authority
Dover .. .. .	CA	Kent .. .. .	51 07N	01 19E	Borough Engineer
Dover, Royal Military School	C	Kent .. .. .	51 07N	01 19E	Headmaster, Royal Military School
Dovercourt .. .. .	H	Essex .. .. .	51 55N	01 15E	Borough Engineer and Surveyor, Harwich
Duirinish .. .. .	A	Ross and Cromarty ..	57 19N	05 42W	British Transport Commission
Dumfries .. .. .	C	Dumfries .. .. .	55 04N	03 36W	Physician Supt., Crichton Royal Institution
Dunbar .. .. .	H	East Lothian .. ..	56 00N	02 31W	Burgh Surveyor
Dunblane .. .. .	C	Perth .. .. .	56 11N	03 58W	Burgh Surveyor
Dundee .. .. .	C	Angus .. .. .	56 28N	02 56W	Director of Studies, Training College
Dundee Harbour .. .. .	C	Angus .. .. .	56 28N	02 58W	Dundee Harbour Trust
Dundeugh .. .. .	C	Kirkcudbright .. ..	55 10N	04 12W	Forestry Commission (Scotland)
Dungeness .. .. .	SbA	Kent .. .. .	50 55N	00 58E	Trinity House
Dunning .. .. .	C	Perthshire .. .. .	56 18N	03 34W	The Rt. Hon. The Lord Rollo
Duntulm .. .. .	C	Inverness .. .. .	57 39N	06 22W	Seton Gordon, Esq., C.B.E.
Durham .. .. .	CA	Durham .. .. .	54 46N	01 35W	Director, University Observatory
Dyce .. .. .	ScA	Aberdeen .. .. .	57 12N	02 12W	Meteorological Office
Earl's Hill .. .. .	Sb	Stirling .. .. .	56 04N	04 03W	Stn. Eng., Decca Navigator Trans. Stn.
East Bergholt .. .. .	C	Suffolk .. .. .	51 57N	01 02E	Director, Field Studies Council
Eastbourne .. .. .	H	Sussex .. .. .	50 46N	00 17E	Medical Officer of Health
Eastbourne (Coastguard) ..	Sb	Sussex .. .. .	50 46N	00 18E	Ministry of Transport (Coastguard Section)
East Grinstead .. .. .	C	Sussex .. .. .	51 07N	00 03W	Headmaster, Coombe Hall School
East Hoathly .. .. .	Sb	Sussex .. .. .	50 55N	00 09E	Station Eng., Decca Navigator Trans. Stn.
East Malling .. .. .	Ag	Kent .. .. .	51 17N	00 24E	Director, Research Station
Eastwick Lodge .. .. .	C	Hertford .. .. .	51 47N	00 05E	Chief Engineer, Harlow Development Corp.
Edgbaston .. .. .	SbA	Warwick .. .. .	52 28N	01 56W	Birmingham and Midland Institute
Edinburgh:					
Blackford Hill .. .. .	CA	Midlothian .. .. .	55 55N	03 11W	Astronomer Royal for Scotland
East Craigs .. .. .	Ag	Midlothian .. .. .	55 57N	03 19W	Director, Dept. of Agriculture for Scotland
Liberton .. .. .	C	Midlothian .. .. .	55 55N	03 10W	Secretary, E. Scotland College of Agriculture
Royal Botanic Gardens ..	C	Midlothian .. .. .	55 58N	03 12W	Curator, Botanic Gardens
Elgin .. .. .	C	Moray .. .. .	57 38N	03 18W	Town Clerk
Ellbridge .. .. .	Ag	Cornwall .. .. .	50 27N	04 15W	Agricultural Executive Committee
Elmdon .. .. .	SaA	Warwick .. .. .	52 27N	01 45W	Meteorological Office
Elmstone .. .. .	C	Kent .. .. .	51 17N	01 10E	J. B. Henderson Esq.
Ely Lodge .. .. .	Sb	Fermanagh .. .. .	54 04N	07 42W	Lord Grosvenor
Enfield .. .. .	C	Middlesex .. .. .	51 38N	00 03W	Urban District Council
Eskdalemuir Observatory ..	OA	Dumfries .. .. .	55 19N	03 12W	Meteorological Office
Everton .. .. .	Ag	Hampshire .. .. .	50 44N	01 34W	Director, Experimental Horticultural Station
Exeter .. .. .	Sa	Devon .. .. .	50 44N	03 25W	Meteorological Office
Exeter Southam .. .. .	C	Devon .. .. .	50 43N	03 30W	Squadron Leader C. Chesterfield
Exmouth .. .. .	H	Devon .. .. .	50 36N	03 24W	Urban District Council



Station	Type	County	Lat.	Long.	Authority
Falkirk .. .. .	C	Stirling .. .. .	56 00N	03 48W	Sanitary Inspector
Falmouth .. .. .	H	Cornwall .. .. .	50 09N	05 05W	Town Clerk
Faskally .. .. .	C	Perth .. .. .	56 43N	03 46W	Dept. of Agriculture & Fisheries for Scotland
Faversham .. .. .	Ag	Kent .. .. .	51 17N	00 52E	Director, National Fruit Trials
Fernhurst .. .. .	Ag	Sussex .. .. .	51 02N	00 42W	Plant Protection Ltd.
Fettercairn .. .. .	C	Kincardine .. .. .	56 54N	02 32W	Hill Farm Research Organisation
Filey .. .. .	H	Yorks., E.R. .. .. .	54 13N	00 17W	Clerk of the Council
Filton .. .. .	Sa	Gloucester .. .. .	51 31N	02 35W	Meteorological Office
Finaghy .. .. .	C	Antrim .. .. .	54 33N	05 58W	M. Fitzpatrick, Esq.
Finchampstead .. .. .	Ag	Berkshire .. .. .	51 25N	00 55W	J. R. Allison, Esq.
Finningley .. .. .	Sa	Nottingham .. .. .	53 29N	01 00W	Meteorological Office
Fleetwood .. .. .	A	Lancs. .. .. .	53 56N	03 01W	Parks Superintendent
Folkestone .. .. .	H	Kent .. .. .	51 05N	01 11E	Borough Engineer
Forres .. .. .	C	Moray .. .. .	57 37N	03 36W	Town Clerk
Fort Augustus .. .. .	C	Inverness .. .. .	57 08N	04 40W	Procurator, The Abbey
Fort William .. .. .	C	Inverness .. .. .	56 50N	05 05W	Headmaster, Schoolhouse, Camaghael
Fortrose .. .. .	C	Ross and Cromarty .. .. .	57 35N	04 05W	Town Clerk
Fowey .. .. .	C	Cornwall .. .. .	50 21N	04 38W	Town Clerk
Fyvie Castle .. .. .	C	Aberdeen .. .. .	57 27N	02 27W	Sir Ian Forbes-Leith, Bart
Gainsborough .. .. .	C	Lincoln .. .. .	53 25N	00 46W	Headmaster, Castle Hills Secondary School
Garstang .. .. .	Ag	Lancashire .. .. .	53 55N	02 48W	Director, Nat. Inst. of Agricultural Botany
Garston .. .. .	CA	Hertford .. .. .	51 42N	00 23W	Director, Building Research Station
Garvagh Forest .. .. .	C	Londonderry .. .. .	54 58N	06 41W	Forestry Division
Gateshead .. .. .	C	Durham .. .. .	54 57N	01 35W	Medical Officer of Health
Gatwick .. .. .	SaA	Surrey .. .. .	51 09N	00 11W	Meteorological Office
Gillingham .. .. .	C	Kent .. .. .	51 24N	00 34E	Borough Engineer
Glamis Castle .. .. .	C	Angus .. .. .	56 37N	03 00W	Earl of Strathmore
Glasgow, Springburn .. .. .	C	Lanark .. .. .	55 53N	04 14W	Director of Parks, The Corporation
Glananne .. .. .	Sb	Armagh .. .. .	54 15N	06 30W	Colonel A. H. Glendinning
Glenbranter .. .. .	C	Argyll .. .. .	56 08N	05 03W	Forestry Commission (Scotland)
Gleneagles .. .. .	C	Perth .. .. .	56 17N	03 45W	British Transport Hotels
Glenlee .. .. .	Sb	Kirkcudbright .. .. .	55 06N	04 11W	Hydro-Electric Engineer
Glenlivet .. .. .	Sb	Banff .. .. .	57 21N	03 21W	Mr. J. Williams
Glenloch Barrage .. .. .	C	Kirkcudbright .. .. .	54 52N	04 02W	Hydro-Electric Engineer
Glenmore Lodge .. .. .	Sb	Inverness .. .. .	57 10N	03 40W	Director of Field Studies
Glenshee Lodge .. .. .	C	Perth .. .. .	56 48N	03 25W	Colonel C. Peel
Glentress .. .. .	C	Peebles .. .. .	55 39N	03 08W	Forestry Commission (Scotland)
Gloucester .. .. .	Sa	Gloucester .. .. .	51 52N	02 13W	Meteorological Office
Gogerddan .. .. .	Ag	Cardigan .. .. .	52 26N	04 01W	Director, Plant Breeding Station
Gordon Castle .. .. .	C	Moray .. .. .	57 37N	03 05W	Colonel Gordon Lennox, C.V.O., D.S.O.
Gorleston .. .. .	SbA	Norfolk .. .. .	52 35N	01 43E	Minister of Transport (Coastguard Section)
Goudhurst .. .. .	C	Kent .. .. .	51 04N	00 27E	Forestry Commission
Great Dun Fell .. .. .	SbA	Westmorland .. .. .	54 41N	02 27W	Ministry of Aviation
Greenmount .. .. .	Ag	Antrim .. .. .	54 41N	06 13W	Greenmount Agricultural College
Greenock .. .. .	C	Renfrew .. .. .	55 56N	04 46W	Water Engineer
Greenwich .. .. .	C	London .. .. .	51 29N	00 00	Director, National Maritime Museum
Grendon Underwood .. .. .	C	Buckingham .. .. .	51 54N	01 01W	The Director, Hydraulic Research Station
Grizedale .. .. .	C	Lancashire .. .. .	54 21N	03 01W	Forestry Commission
Guernsey Airport .. .. .	Sa	Channel Isles .. .. .	49 26N	02 36W	Commandant, States Airport
Gulval .. .. .	Ag	Cornwall .. .. .	50 08N	05 32W	Sutton and Sons Ltd.
Haddington .. .. .	C	East Lothian .. .. .	55 57N	02 47W	Town Clerk
Halesowen .. .. .	C	Worcester .. .. .	52 26N	02 04W	C. G. Roberts, Esq.
Hamnavoe .. .. .	C	Shetland .. .. .	60 06N	01 02W	Mr. Riddell
Hampstead .. .. .	C	London .. .. .	51 34N	00 11W	E. L. Hawke, Esq., M.A., F.R.Met.S.
Hampton .. .. .	CA	Middlesex .. .. .	51 25N	00 22W	Metropolitan Water Board
Happendon Station .. .. .	Sb	Lanark .. .. .	55 36N	03 50W	Captain J. Ross
Harlow .. .. .	C	Essex .. .. .	51 46N	00 08E	Standard Telecommunication Lab. Ltd.
Harrogate .. .. .	C	Yorks., W.R. .. .. .	54 01N	01 33W	Borough Engineer
Hastings .. .. .	H	Sussex .. .. .	50 51N	00 34E	Director of Publicity
Hartland Point .. .. .	Sb	Devon .. .. .	51 01N	04 32W	Ministry of Transport (Coastguard Section)
Haverfordwest .. .. .	C	Pembroke .. .. .	51 48N	04 58W	Borough Surveyor
Hawarden Bridge .. .. .	C	Flint .. .. .	53 12N	03 01W	Messrs. J. Summers & Sons
Hawkrigge .. .. .	Ag	Somerset .. .. .	50 58N	03 36W	Director, Experimental Husbandry Farm
Haydon Bridge .. .. .	C	Northumberland .. .. .	54 58N	02 15W	Headmaster, Shaftoe Trust School
Hayling Island .. .. .	H	Hampshire .. .. .	50 47N	00 59W	Havant Urban District Council
Helensburgh .. .. .	C	Dunbarton .. .. .	56 01N	04 43W	Burgh Surveyor
Helen's Bay .. .. .	C	Down .. .. .	54 40N	05 45W	T. D. Boyd, Esq.
Helmshore .. .. .	Ag	Lancashire .. .. .	53 41N	02 20W	Director, Experimental Husbandry Farm
Hempsted .. .. .	C	Gloucester .. .. .	51 50N	02 16W	City Engineer and Surveyor
Herne Bay .. .. .	H	Kent .. .. .	51 22N	01 07E	Clerk of the Council
High Mowthorpe .. .. .	Ag	Yorks., E.R. .. .. .	54 06N	00 38W	Director, Experimental Husbandry Farm
Hillsborough .. .. .	C	Down .. .. .	54 27N	06 04W	Agricultural Research Institute
Hilton .. .. .	C	Aberdeen .. .. .	57 10N	02 07W	Principal, College of Education
Hoddesdon .. .. .	Ag	Hertford .. .. .	51 44N	00 05W	Director, Lea Valley Exp. Horticultural Stn.
Houghall .. .. .	Ag	Durham .. .. .	54 46N	01 34W	Principal, School of Agriculture
Huddersfield .. .. .	C	Yorks., W.R. .. .. .	53 38N	01 43W	Town Clerk
Huddersfield (Oakes) .. .. .	Sb	Yorks., W.R. .. .. .	53 39N	01 50W	S. Morris Bower, Esq.
Hull .. .. .	C	Yorks., E.R. .. .. .	53 45N	00 16W	Superintendent, Parks Department
Hunterston .. .. .	A	Ayrshire .. .. .	55 43N	04 52W	South Scotland Electricity Board
Huntly .. .. .	Sb	Aberdeen .. .. .	57 27N	02 47W	Mrs. A. J. Williams
Hurley .. .. .	Ag	Berkshire .. .. .	51 32N	00 49W	Director, Grassland Research Institute
Hurn .. .. .	SaA	Hampshire .. .. .	50 47N	01 50W	Meteorological Office



Station	Type	County	Lat.	Long.	Authority
Ilfracombe .. .. .	H	Devon .. .. .	51 12N	04 08W	Urban District Council
Ilkley .. .. .	C	Yorks., W.R. .. .	53 55N	01 50W	Surveyor and Engineer
Inveralmond .. .. .	C	Perth .. .. .	56 25N	03 28W	Secretary, John Dewar and Sons Ltd
Inverness .. .. .	C	Inverness .. .. .	57 29N	04 13W	Firemaster, Northern Area Fire Brigade
Inverpolly .. .. .	C	Ross and Cromarty .. .	58 04N	05 16W	Nature Conservancy
Isle of Grain .. .. .	CA	Kent .. .. .	51 27N	00 43E	Tech. Supt. Kent Oil Refinery Ltd.
Isle of Rhum .. .. .	C	Inverness .. .. .	57 01N	06 17W	Nature Conservancy
Jersey Airport .. .. .	SaA	Channel Isles .. .. .	49 12N	02 11W	Airport Commandant
Jersey, Gorey Castle .. .. .	Sun	Channel Isles .. .. .	49 12N	02 01W	States Committee of Tourism
Jersey, St. Helier .. .. .	H	Channel Isles .. .. .	49 11N	02 07W	The Greffier
Keele .. .. .	CA	Stafford .. .. .	53 00N	02 16W	Professor of Geography, University College
Kelso (Floors) .. .. .	C	Roxburgh .. .. .	55 36N	02 28W	P. L. F. Batchelor, Esq., Estate Office
Kensington Palace .. .. .	C	London .. .. .	51 31N	00 10W	Bailiff of the Royal Parks
Kew Observatory .. .. .	OA	Surrey .. .. .	51 28N	00 19W	Meteorological Office
Kielder Castle .. .. .	C	Northumberland .. .	55 14N	02 34W	Forestry Commission
Killough .. .. .	Sb	Down .. .. .	54 14N	03 37W	Ministry of Transport (Coastguard Section)
Kilkeel .. .. .	Sb	Down .. .. .	54 03N	05 59W	Ministry of Transport (Coastguard Section)
Kilmarnock .. .. .	C	Ayr .. .. .	55 36N	04 30W	Burgh Surveyor
Kilroot .. .. .	C	Antrim .. .. .	54 43N	05 45W	Imperial Chemical Industries
Kingsway .. .. .	A	London .. .. .	51 31N	00 07W	Meteorological Office
Kinlochewe .. .. .	C	Ross and Cromarty .. .	57 37N	05 18W	Nature Conservancy
Kinloss .. .. .	SaA	Moray .. .. .	57 39N	03 34W	Meteorological Office
Kirkcaldy .. .. .	C	Fife .. .. .	56 08N	03 10W	Town Clerk
Kirkham .. .. .	Ag	Lancashire .. .. .	53 48N	02 53W	Director, Experimental Horticultural Stn.
Kirkwall .. .. .	SaA	Orkney .. .. .	58 58N	02 54W	Meteorological Office
Knockmany Forest .. .. .	C	Tyrone .. .. .	54 26N	07 10W	Forestry Division
Knutsford .. .. .	C	Cheshire .. .. .	52 18N	02 21W	Robert Bowles, Esq.
Lacock .. .. .	Ag	Wiltshire .. .. .	51 26N	02 07W	Principal, School of Agriculture
Lake Vyrnwy .. .. .	C	Montgomery .. .. .	52 45N	03 28W	Chief Engineer, Liverpool Corporation
Lanark .. .. .	C	Lanark .. .. .	55 40N	03 47W	West Scotland College of Agriculture
Largs .. .. .	C	Ayr .. .. .	55 48N	04 52W	Town Council
Larkhill .. .. .	SaA	Wiltshire .. .. .	51 12N	01 48W	Meteorological Office
Larne .. .. .	C	Antrim .. .. .	54 51N	05 50W	T. A. McKinley, Esq., Grammar School
Lauder .. .. .	C	Berwick .. .. .	55 44N	02 46W	Forestry Commission (Scotland)
Leadhills .. .. .	C	Lanark .. .. .	55 25N	03 45W	Douglas Grant, Esq.
Leckford .. .. .	C	Hampshire .. .. .	51 07N	01 27W	General Manager, Leckford Estate Ltd.
Leconfield .. .. .	Sa	Yorks., E.R. .. .. .	53 53N	00 26W	Meteorological Office
Leicester .. .. .	C	Leicester .. .. .	52 38N	01 05W	Secretary, Hospital Management Committee
Lepinmore .. .. .	Ag	Argyll .. .. .	56 05N	05 15W	Director, Hill Farming Research Org.
Lerwick Observatory .. .. .	OA	Zetland .. .. .	60 08N	01 11W	Meteorological Office
Letchworth .. .. .	C	Hertford .. .. .	51 58N	00 13W	Urban District Council
Letcombe Regis .. .. .	C	Berkshire .. .. .	51 35N	01 27W	Agricultural Research Council
Leuchars .. .. .	SaA	Fife .. .. .	56 23N	02 52W	Meteorological Office
Lincoln .. .. .	C	Lincoln .. .. .	53 14N	00 34W	City Engineer and Surveyor
Lislap Forest .. .. .	C	Tyrone .. .. .	54 42N	07 16W	Queen's University, Belfast
Lisnafillan .. .. .	C	Antrim .. .. .	54 51N	06 19W	Messrs. Gallagher Ltd.
Littlehampton .. .. .	H	Sussex .. .. .	50 48N	00 32W	Urban District Council
Little Risington .. .. .	Sa	Gloucester .. .. .	51 42N	01 42W	Meteorological Office
Lizard .. .. .	SbA	Cornwall .. .. .	49 57N	05 12W	Ministry of Transport (Coastguard Section)
Llandudno .. .. .	H	Caernarvon .. .. .	53 20N	03 50W	Medical Officer of Health
Llandrindod Wells .. .. .	C	Radnor .. .. .	52 14N	03 22W	Urban District Council
Llwynon .. .. .	C	Brecknock .. .. .	51 47N	03 26W	Water Engineer, Cardiff
Llyn Stwlan .. .. .	C	Merioneth .. .. .	52 53N	03 52W	Central Electricity Generating Board
Loggerheads .. .. .	C	Denbigh .. .. .	53 03N	03 14W	Liverpool Education Committee
London (Heathrow) Airport .. .. .	SaA	Middlesex .. .. .	51 29N	00 27W	Meteorological Office
Long Ashton .. .. .	AgA	Somerset .. .. .	51 26N	02 40W	Director, Agric. and Hort. Research Stn.
Long Sutton .. .. .	Ag	Hampshire .. .. .	51 15N	00 56W	Principal, Lord Wandsworth College
Lossiemouth .. .. .	CA	Moray .. .. .	57 43N	03 20W	Commanding Officer, RNAS
Lough Bradan .. .. .	C	Tyrone .. .. .	54 36N	07 36W	Lough Bradan Waterworks Joint Board
Loughermore Forest .. .. .	C	Londonderry .. .. .	54 57N	07 05W	Forestry Division
Loughgall .. .. .	Ag	Armagh .. .. .	54 24N	06 36W	Plant Breeding Division
Lough Navar Forest .. .. .	C	Fermanagh .. .. .	54 26N	07 54W	Forestry Division
Lowestoft .. .. .	H	Suffolk .. .. .	52 30N	01 45E	Borough Treasurer
Lowther Hill .. .. .	SbA	Lanark .. .. .	55 23N	03 45W	Ministry of Aviation
Llety-evan-hen .. .. .	Ag	Cardigan .. .. .	52 27N	03 56W	Director, Plant Breeding Station
Luddington .. .. .	Ag	Warwick .. .. .	52 10N	01 46W	Director, Exp. Horticultural Station
Luton .. .. .	C	Bedford .. .. .	51 54N	00 25W	Borough Engineer
Lyme Regis .. .. .	C	Dorset .. .. .	50 56N	02 56W	Mrs. R. J. Woodroffe
Lyneham .. .. .	Sa	Wiltshire .. .. .	51 30N	01 59W	Meteorological Office
Lyonshall .. .. .	C	Hereford .. .. .	52 13N	02 58W	R. H. Green, Esq.
Macclesfield .. .. .	C	Cheshire .. .. .	53 15N	02 08W	Superintendent of Parks
Mackworth .. .. .	C	Derby .. .. .	52 55N	01 31W	Headmaster, Secondary Modern School
Maldon .. .. .	C	Essex .. .. .	51 44N	00 40E	Town Clerk
Malham Tarn .. .. .	C	Yorks., W.R. .. .. .	54 06N	02 10W	Field Studies Council
Malvern .. .. .	C	Worcester .. .. .	52 06N	02 18W	Urban District Council
Manby .. .. .	Sa	Lincoln .. .. .	53 21N	00 05E	Meteorological Office
Manchester W/Centre .. .. .	SunA	Lancashire .. .. .	53 29N	02 15W	Meteorological Office
Mansfield .. .. .	C	Nottingham .. .. .	53 09N	01 11W	Borough Surveyor
Manston .. .. .	Sa	Kent .. .. .	51 21N	01 21E	Meteorological Office
Marlborough .. .. .	C	Wiltshire .. .. .	51 25N	01 44W	Headmaster, Marlborough College
Marham .. .. .	Sa	Norfolk .. .. .	52 39N	00 34E	Meteorological Office



Station	Type	County	Lat.	Long.	Authority
Marchmont	C	Berwick	55 44N	02 25W	C. Sherlow, Esq.
Margate	H	Kent	51 24N	01 24E	Town Clerk
Martyr Worthly	Ag	Hampshire	51 06N	01 16W	Director, Exp. Husbandry Farm
Medmenham	C	Buckingham	51 33N	00 50W	Water Research Association
Mertoun	C	Berwick	55 35N	02 34W	Lord Ellesmere
Mickleham	C	Surrey	51 16N	00 19W	Field Studies Council
Middleton St. George	Sa	Durham	54 31N	01 25W	Meteorological Office
Mildenhall	SaA	Suffolk	52 22N	00 28E	Meteorological Office
Millport	CA	Bute	55 45N	04 54W	Dr. H. Barnes, Marine Research Station
Moneydig	Sb	Londonderry	54 59N	06 36W	J. Porter, Esq.
Monkswood	C	Huntingdon	52 24N	00 14W	Nature Conservancy
Montrose	C	Angus	56 43N	02 28W	Physician Supt., Royal Mental Hospital
Moor House	CA	Westmorland	54 41N	02 23W	Nature Conservancy
Morecambe	H	Lancashire	54 04N	02 52W	Town Clerk
Moreton Morrell	Ag	Warwick	52 12N	01 33W	Principal, Institute of Agriculture
Morley	Ag	Derby	52 57N	01 25W	Warden, Farm Institute
Mount Batten	Sa	Devon	50 21N	04 07W	Meteorological Office
Muchalls	C	Kincardine	57 01N	02 10W	Grassland Officer, N. Scotland Agric. Coll.
Mull of Galloway	Sb	Wigtown	54 38N	04 51W	Northern Lighthouse Board
Mumbles Head	Sb	Glamorgan	51 34N	03 59W	Ministry of Transport (Coastguard Section)
Mylnefield	Ag	Angus	56 27N	03 04W	Director, Scot. Hortic. Research Institute
Nairn	C	Nairn	57 35N	03 52W	Town Clerk
Navenby	C	Lincoln	53 06N	00 33W	J. K. Rothwell, Esq.
Neath	C	Glamorgan	51 39N	03 51W	National Oil Refineries Ltd.
Nelson	C	Lancashire	53 50N	02 12W	Medical Officer of Health
Newport	Ag	Shropshire	52 46N	02 26W	Principal, Harper-Adams Agric. College
Newport	Ag	Monmouth	51 33N	03 02W	Tech. Officer i/c Exp. Horticultural Station
Newquay	H	Cornwall	50 25N	05 05W	Clerk to the Council
Newry Abbey	C	Down	54 10N	06 20W	Christian Brothers School
Newton Abbot	Ag	Devon	50 33N	03 39W	Principal, Seale-Hayne Agric. College
Newton Rigg	Ag	Cumberland	54 40N	02 47W	Principal, County Farm School
Newton Stewart	C	Wigtown	54 58N	04 29W	The Rector, Douglas-Ewart High School
Newtownabbey	Ag	Antrim	54 39N	05 55W	Nematology Laboratory
Newtown Linford	C	Leicester	52 41N	01 13W	E. A. Bonser, Esq.
North Berwick	C	East Lothian	56 03N	02 43W	Burgh Surveyor
North Hessary Tor	Sb	Devon	50 33N	04 00W	British Broadcasting Corporation
Nottingham	C	Nottingham	52 57N	01 09W	City Engineer and Surveyor
Nottingham Training College	C	Nottingham	52 54N	01 11W	W. Middlebrook, Esq., Training College
Oaken	C	Stafford	52 35N	02 12W	A. J. Parkes, Esq., M.C., D.L., J.P.
Oban	C	Argyll	56 25N	05 30W	Town Council
Onecote	Ag	Stafford	53 07N	01 57W	J. A. Johnson, Esq.
Onich	C	Inverness	56 43N	05 13W	Forestry Commission (Scotland)
Oswestry	C	Shropshire	52 51N	03 04W	Chief Engineer, Liverpool Corporation
Oxford	C	Oxford	51 46N	01 16W	Professor of Geography
Paignton	H	Devon	50 26N	03 34W	Clerk to the Council
Paisley	CA	Renfrew	55 51N	04 26W	Director, Coats Observatory
Palnure	C	Kirkcudbright	54 57N	04 25W	Forestry Commission (Scotland)
Parkmore Forest	C	Antrim	55 01N	06 07W	Queen's University, Belfast
Penicuik	C	Midlothian	55 50N	03 13W	Dr. J. T. Baldwin
Penkridge	Ag	Stafford	52 42N	02 06W	Principal, Farm Institute
Penwhirn	C	Wigtown	54 59N	04 55W	County Surveyor and Engineer
Penzance	H	Cornwall	50 07N	05 32W	Town Clerk
Pershore	SaA	Worcester	52 08N	02 02W	Meteorological Office
Pershore (Inst. of Horticulture)	Ag	Worcester	52 06N	02 03W	Principal, Institute of Horticulture
Perth	C	Perth	56 24N	03 27W	Town Clerk
Pickering	C	Yorks., W.R.	54 15N	00 46W	J. Randall, Esq.
Pitlochry	C	Perth	56 43N	03 44W	Town Clerk
Pitreavie	Sa	Fife	56 03N	03 25W	Meteorological Office
Plymouth (The Hoe)	CA	Devon	50 22N	04 08W	Medical Officer of Health
Point of Ayre	SbA	Isle of Man	54 25N	04 22W	Northern Lighthouse Board
Pomeroy Forest	C	Tyrone	54 35N	06 54W	Forestry Division
Pontefract	C	Yorks., W.R.	53 42N	01 19W	Headmaster, King's School
Poole	H	Dorset	50 45N	01 59W	Town Clerk
Poolewe	C	Ross	57 47N	05 36W	National Trust for Scotland
Porthcawl	C	Glamorgan	51 27N	03 43W	Urban District Council
Portland Bill	SbA	Dorset	50 32N	02 27W	Trinity House
Porton	SaA	Wiltshire	51 07N	01 42W	Meteorological Office
Portrush	Sun	Antrim	55 13N	06 40W	Urban District Council
Port Talbot	CA	Glamorgan	51 34N	03 45W	Steel Company of Wales Ltd.
Poulton-le-Fylde	C	Lancashire	53 50N	03 00W	Headmaster, Baines Grammar School
Prabost	C	Inverness	57 28N	06 19W	R. Murray, Esq.
Prestatyn	H	Flint	53 20N	03 24W	Urban District Council
Preston	C	Lancashire	53 46N	02 42W	Director, Jeremiah Horrocks Observatory
Preston Wynne	Ag	Hereford	52 07N	02 30W	Director, Experimental Husbandry Farm
Prestwick Airport	SaA	Ayr	55 30N	03 35W	Meteorological Office
Prinetown	C	Devon	50 33N	03 59W	The Governor, H.M. Prison
Pubble Forest	C	Fermanagh	54 21N	07 28W	Forestry Division
Ramsgate	H	Kent	51 20N	01 25E	Borough Engineer and Surveyor
Rannoch	A	Perthshire	56 41N	04 35W	Stationmaster
Rattray Head	Sb	Aberdeen	57 37N	01 50W	Ministry of Transport (Coastguard Section)
Raunds	C	Northampton	52 20N	00 31W	T. C. Smith, Esq.



Station	Type	County	Lat.	Long.	Authority
Reading .. .. .	Ag	Berkshire .. ..	51 27N	00 58W	Professor of Geography
Reading Seed Trial Grounds	C	Berkshire .. ..	51 27N	00 56W	Royal Seed Establishment
Reagh Island .. ..	C	Down .. ..	54 31N	05 38W	T. D. Boyd, Esq.
Redcar .. .. .	C	Yorks., N.R. ..	54 37N	01 04W	Town Clerk
Regent's Park .. ..	C	London .. ..	51 31N	00 09W	Park Superintendent
Renfrew .. .. .	SaA	Renfrew .. ..	55 52N	04 24W	Meteorological Office
Rhoose .. .. .	SaA	Glamorgan .. ..	51 24N	03 21W	Meteorological Office
Rhuvaal .. .. .	Sb	Argyll .. ..	55 56N	06 07W	Northern Lighthouse Board
Rhyl .. .. .	H	Flint .. ..	53 19N	03 30W	Urban District Council
Ringway .. .. .	SaA	Cheshire .. ..	53 21N	02 16W	Meteorological Office
Rochdale .. .. .	C	Lancashire .. ..	53 38N	02 10W	Borough Surveyor
Ronaldsway .. ..	SaA	Isle of Man .. ..	54 05N	04 38W	Meteorological Office
Roscor .. .. .	Sb	Fermanagh .. ..	54 26N	08 02W	T. McGorty, Esq.
Rosetta .. .. .	C	Down .. ..	54 34N	05 55W	Carolan Grammar School
Rosewarne .. ..	Ag	Cornwall .. ..	50 13N	05 18W	Director, Exp. Horticultural Station
Ross-on-Wye .. ..	Sb	Hereford .. ..	51 55N	02 35W	F. J. Parsons, Esq., for Meteorological Office
Rothamsted .. ..	AgA	Hertford .. ..	51 48N	00 21W	Director, Experimental Station
Rotherham .. ..	C	Yorks., W.R. ..	53 25N	01 19W	L. Atkinson, Esq.
Rothsay .. .. .	C	Bute .. ..	55 50N	05 04W	Buteshire Natural History Society
Rowallane .. ..	C	Down .. ..	54 26N	05 49W	National Trust
Rugby .. .. .	C	Warwick .. ..	52 22N	01 15W	Rugby Weather Bureau
Rustington .. ..	Ag	Sussex .. ..	50 49N	00 31W	Glasshouse Crops Research Institute
Ruthin .. .. .	C	Denbigh .. ..	53 07N	03 18W	Headmaster, Brynhyfryd School
Ryde .. .. .	H	Isle of Wight ..	50 44N	01 10W	Superintendent, Publicity Department
St. Abb's Head .. ..	Sb	Berwick .. ..	55 55N	02 08W	Northern Lighthouse Board
St. Albans .. ..	Ag	Hertford .. ..	51 46N	00 18W	Principal, Institute of Agriculture
St. Austell .. ..	C	Cornwall .. ..	50 20N	04 47W	Urban District Council
St. Andrews .. ..	C	Fife .. ..	56 20N	02 47W	Burgh Engineer
St. Catherine's Point	Sb	Isle of Wight ..	50 35N	01 17W	Trinity House
St. James' Park .. ..	C	London .. ..	51 30N	00 08W	Bailiff of the Royal Parks
St. Kilda .. .. .	C	Inverness .. ..	57 48N	08 34W	Officer Commanding, R.A. G.W. Range
St. Mary's, Scilly ..	SbA	Cornwall .. ..	49 56N	06 18W	Minister of Transport (Coastguard Section)
St. Mawgan .. ..	Sa	Cornwall .. ..	50 26N	05 00W	Meteorological Office
Sandown .. .. .	H	Isle of Wight ..	50 39N	01 09W	Urban District Council
Santon Downham ..	Ag	Norfolk .. ..	52 28N	00 41E	Forestry Commission
Scarborough .. ..	H	Yorks., N.R. ..	54 17N	00 24W	Medical Officer of Health
Seaford .. .. .	C	Sussex .. ..	50 46N	00 07E	Surveyor to the Council
Seahouses .. ..	Sb	Northumberland	55 35N	01 39W	Ministry of Transport (Coastguard Section)
Sellafield .. ..	CA	Cumberland .. ..	54 25N	03 30W	U.K. Atomic Energy Authority
Shaftesbury .. ..	C	Dorset .. ..	51 01N	02 12W	Headmaster, Modern School
Shanklin .. .. .	H	Isle of Wight ..	50 37N	01 11W	Urban District Council
Shawbury .. .. .	Sa	Shropshire .. ..	52 48N	02 41W	Meteorological Office
Sheffield .. .. .	C	Yorks., W.R. ..	53 23N	01 29W	Director, City Museum
Shin .. .. .	A	Sutherland .. ..	57 57N	04 25W	Shin Generating Station
Shinfield .. .. .	Ag	Berkshire .. ..	51 25N	00 57W	Professor of Horticulture
Shipston on Stour ..	C	Warwick .. ..	52 04N	01 42W	A. W. Beecham, Esq.
Shoburnyness .. ..	SaA	Essex .. ..	51 32N	00 49E	Meteorological Office
Shrewsbury .. ..	C	Shropshire .. ..	52 43N	02 43W	Medical Officer of Health
Sidmouth .. .. .	C	Devon .. ..	50 41N	03 14W	Surveyor
Silpho Moor .. ..	Ag	Yorks., N.R. ..	54 20N	00 31W	Forestry Commission (Res. Branch)
Silsoe .. .. .	Ag	Bedford .. ..	52 01N	00 25W	Director, National Inst. of Agric. Eng.
Sittingbourne .. ..	Ag	Kent .. ..	51 14N	00 43E	Principal, Farm Institute
Skegness .. .. .	H	Lincoln .. ..	53 09N	00 21E	Engineer and Surveyor
Skokholm Island ..	C	Pembroke .. ..	51 42N	05 16W	Field Studies Council
Slaidburn .. .. .	C	Yorks., W.R. ..	53 59N	02 26W	Engineer, Fylde Water Board
Slaidburn (No. 10 Site)	C	Yorks., W.R. ..	53 59N	02 25W	Engineer, Fylde Water Board
Slapton .. .. .	C	Devon .. ..	50 11N	03 37W	Field Studies Council
Somerset Forest ..	C	Londonderry ..	55 06N	06 41W	Forestry Division
Sourhope .. .. .	Ag	Roxburgh .. ..	55 29N	02 15W	Director, Hill Farming Research Org.
Southampton .. ..	C	Hampshire .. ..	50 55N	01 24W	Director General, Ordnance Survey
Southend .. .. .	H	Essex .. ..	51 32N	00 42E	Pier Master
South Farnborough ..	SaA	Hampshire .. ..	51 17N	00 45W	Meteorological Office
Southgate .. .. .	CA	Middlesex .. ..	51 38N	00 07W	Borough Council
Southport .. .. .	HA	Lancashire .. ..	53 40N	02 58W	Town Clerk
Southsea .. .. .	H	Hampshire .. ..	50 48N	01 06W	Medical Officer of Health
South Shields .. ..	A	Durham .. ..	55 00N	01 26W	Secretary, Tyne Improvement Commission
Spadeadam .. .. .	CA	Cumberland .. ..	55 02N	02 38W	E.T.A. Engineer, Rolls Royce Ltd.
Speke .. .. .	SaA	Lancashire .. ..	53 21N	02 53W	Meteorological Office
Sprowston .. .. .	Ag	Norfolk .. ..	52 40N	01 21E	Director, Agricultural Station
Spurn Head .. .. .	Sb	Yorks., E.R. ..	53 35N	00 07E	Ministry of Transport (Coastguard Section)
Squires Gate .. ..	SaA	Lancashire .. ..	53 46N	03 02W	Meteorological Office
Stanhope Farm .. ..	Ag	Peebles .. ..	55 33N	03 24W	Animal Breeding Research Organisation
Stanstead Abbotts ..	C	Herts .. ..	51 46N	00 00	Chief Engineer, Sewage Purification Works
Stansted .. .. .	SaA	Essex .. ..	51 53N	00 13E	Meteorological Office
Starcross .. .. .	Ag	Devon .. ..	50 38N	03 27W	Deputy Provincial Director, M.A.F.F.
Stenness .. .. .	C	Orkney .. ..	58 59N	03 13W	P. Leith, Esq.
Stirling .. .. .	C	Stirling .. ..	56 07N	03 56W	Sanitary Inspector
Stirling (Batterflats)	C	Stirling .. ..	56 07N	03 57W	Stirling Corporation
Stone .. .. .	Ag	Stafford .. ..	52 53N	02 11W	Animal Breeding Research Organisation
Stonehaven .. ..	C	Kincardine .. ..	56 58N	02 12W	Town Clerk
Stormont Castle ..	C	Down .. ..	54 35N	05 48W	Works Division
Stornoway .. .. .	Sa	Ross and Cromarty	58 13N	06 20W	Meteorological Office
Stornoway (Coastguard)	A	Ross and Cromarty	58 12N	06 22W	Ministry of Transport (Coastguard Section)
Stratford-on-Avon ..	Ag	Warwick .. ..	52 11N	01 44W	Director, Experimental Husbandry Farm



Station	Type	County	Lat.	Long.	Authority
Strachan .. .. .	C	Kincardine .. ..	57 01N	02 30W	F. H. W. Green, Esq.
Stonyhurst .. .. .	C	Lancashire .. ..	53 51N	02 28W	Rev. J. E. Worthy
Strathy .. .. .	C	Sutherland .. ..	58 31N	04 01W	Lands Officer, Dept. of Agriculture
Strathyre .. .. .	C	Perth .. .. .	56 19N	04 19W	Forestry Commission (Scotland)
Sule Skerry .. .. .	Sb	Orkney .. .. .	59 05N	04 24W	Northern Lighthouse Board
Sutton Bonington .. .. .	Ag	Nottingham .. ..	52 50N	01 15W	Prof. F. L. Milthorpe, School of Agriculture
Swanage .. .. .	H	Dorset .. .. .	50 37N	01 57W	Urban District Council
Swanley .. .. .	Ag	Kent .. .. .	51 25N	00 10E	Principal, Kent Horticultural Institute
Swansea .. .. .	C	Glamorgan .. ..	51 37N	03 55W	Clerk to the Corporation
Swyddffynnon .. .. .	C	Cardigan .. ..	52 16N	03 55W	Nature Conservancy
Tarbatness .. .. .	Sb	Ross and Cromarty ..	57 52N	03 46W	Northern Lighthouse Board
Tavistock .. .. .	C	Devon .. .. .	50 33N	04 10W	Urban District Council
Tayport .. .. .	C	Fife .. .. .	56 27N	02 53W	Dundee Harbour Trust
Teignmouth .. .. .	H	Devon .. .. .	50 33N	03 29W	W. K. Fraser, Esq.
Terrington St. Clement .. .. .	Ag	Norfolk .. .. .	52 45N	00 18E	Director, Experimental Husbandry Farm
Thirsk .. .. .	C	Yorks, N.R. .. ..	54 13N	01 21W	W. J. Bird, Esq.
Thorney Island .. .. .	SaA	Sussex .. .. .	50 49N	00 56W	Meteorological Office
Thorntonhall .. .. .	C	Lanark .. .. .	55 46N	04 14W	Officer i/c Building Res. Station, DSIR
Threave .. .. .	C	Kirkcudbright .. ..	54 56N	03 57W	Threave School of Practical Gardening
Throwley .. .. .	Ag	Kent .. .. .	51 14N	00 51E	Thomas Neame Ltd.
Tiree .. .. .	SaA	Argyll .. .. .	56 30N	06 53W	Meteorological Office
Tobermory .. .. .	C	Argyll .. .. .	56 37N	06 03W	C. Gardiner, Esq.
Tollymore Park Forest .. .. .	C	Down .. .. .	54 14N	05 56W	Queen's University, Belfast
Torquay .. .. .	H	Devon .. .. .	50 28N	03 31W	Town Clerk
Totnes .. .. .	C	Devon .. .. .	50 27N	03 43W	Dartington Hall Trustees
Trawscoed .. .. .	Ag	Cardigan .. ..	52 20N	03 57W	Director, Experimental Husbandry Farm
Trawsfynydd .. .. .	C	Merioneth .. ..	52 47N	04 03W	Central Electricity Generating Board
Tredegar .. .. .	C	Monmouth .. ..	51 46N	03 15W	Sanitary Inspector
Troon .. .. .	Sun	Ayr .. .. .	55 32N	04 40W	Burgh Surveyor
Tunbridge Wells .. .. .	H	Kent .. .. .	51 08N	00 16E	Medical Officer of Health
Turnberry .. .. .	C	Ayr .. .. .	55 19N	04 50W	Chief Works Officer, Hotels Executive
Turnhouse .. .. .	SaA	Midlothian .. ..	55 57N	03 21W	Meteorological Office
Tynemouth .. .. .	Sb	Northumberland ..	55 01N	01 25W	Ministry of Transport (Coastguard Section)
Udny .. .. .	Ag	Aberdeen .. ..	57 18N	02 09W	University of Aberdeen
Upavon .. .. .	Sa	Wiltshire .. ..	51 17N	01 46W	Meteorological Office
Urswick .. .. .	C	Lancashire .. ..	54 09N	03 07W	Rev. M. D. Grieve
Ushaw College .. .. .	C	Durham .. .. .	54 47N	01 39W	The President
Usk .. .. .	Ag	Monmouth .. ..	51 42N	02 55W	Principal, Institute of Agriculture
Valley .. .. .	SaA	Anglesey .. ..	53 15N	04 32W	Meteorological Office
Ventnor Park .. .. .	H	Isle of Wight .. ..	50 36N	01 13W	Urban District Council
Waddington .. .. .	Sa	Lincoln .. .. .	53 10N	00 31W	Meteorological Office
Waddon .. .. .	C	Surrey .. .. .	51 21N	00 07W	Croydon Corporation
Wakefield .. .. .	C	Yorks., W.R. .. ..	53 40N	01 30W	The Corporation
Wallingford .. .. .	C	Berkshire .. ..	51 32N	01 10W	DSIR Hydraulics Research Station
Walsall .. .. .	C	Stafford .. .. .	52 36N	01 59W	J. C. W. Day, Esq.
Walton-on-Naze .. .. .	Sb	Essex .. .. .	51 51N	01 17E	Ministry of Transport (Coastguard Section)
Warsop .. .. .	Ag	Nottingham .. ..	53 13N	01 07W	Director, Experimental Husbandry Farm
Watnall .. .. .	Sa	Nottingham .. ..	53 01N	01 15W	Meteorological Office
Wattisham .. .. .	Sa	Suffolk .. .. .	52 07N	00 58E	Meteorological Office
Wauchope .. .. .	C	Roxburgh .. ..	55 23N	02 39W	Forestry Commission (Scotland)
Wellesbourne .. .. .	Ag	Warwick .. .. .	52 12N	01 36W	Director, Nat. Vegetable Research Station
Wellington .. .. .	C	Shropshire .. ..	52 42N	02 29W	Surveyor, Wellington, R.D.C.
West Freugh .. .. .	SaA	Wigtown .. .. .	54 51N	04 57W	Meteorological Office
West Hartlepool .. .. .	C	Durham .. .. .	54 41N	01 12W	H. Lamb, Esq.
West Lavington .. .. .	C	Wiltshire .. ..	51 17N	02 02W	Headmaster, Dauntsey's School
West Linton .. .. .	C	Peebles .. .. .	55 45N	03 18W	Headmaster, Central School
West Raynham .. .. .	Sa	Norfolk .. .. .	52 47N	00 44E	Meteorological Office
Weston-super-Mare .. .. .	H	Somerset .. ..	51 20N	02 59W	Medical Officer of Health
Weymouth .. .. .	H	Dorset .. .. .	50 36N	02 27W	Town Clerk
Whitby .. .. .	H	Yorks, N.R. .. ..	54 29N	00 37W	Urban District Council
Whitby (Coastguard) .. .. .	Sb	Yorks, N.R. .. ..	54 29N	00 36W	Ministry of Transport (Coastguard Section)
Whitchester .. .. .	C	Berwick .. .. .	55 49N	02 27W	S. E. Landale, Esq.
Whitehillocks .. .. .	C	Angus .. .. .	56 55N	02 54W	County Engineer
Whitstable .. .. .	H	Kent .. .. .	51 22N	01 02E	Surveyor and Water Engineer
Wick .. .. .	Sa	Caithness .. ..	58 27N	03 05W	Meteorological Office
Wincanton .. .. .	C	Somerset .. ..	51 04N	02 25W	Headmaster, King Arthur's Secondary School
Winchester .. .. .	C	Hampshire .. ..	51 05N	01 19W	Medical Officer of Health
Winfrith .. .. .	CA	Dorset .. .. .	50 40N	02 15W	U.K. Atomic Energy Authority
Winnington .. .. .	C	Cheshire .. ..	53 16N	02 32W	Imperial Chemical Industries
Wisley .. .. .	Ag	Surrey .. .. .	51 17N	00 26W	Director, Royal Horticultural Society Gdns.
Wittering .. .. .	Sa	Northampton .. ..	52 37N	00 27W	Meteorological Office
Woburn .. .. .	Ag	Bedford .. .. .	52 01N	00 35W	Director, Rothamsted Experimental Station
Woolhampton .. .. .	C	Berkshire .. ..	51 24N	01 10W	The Abbot, Douai Abbey
Worcester .. .. .	Ag	Worcester .. ..	52 10N	02 10W	County Agricultural Officer
Worthing .. .. .	H	Sussex .. .. .	50 49N	00 22W	Medical Officer of Health
Wrexham .. .. .	C	Denbigh .. .. .	53 03N	02 59W	Headmaster, Grove Park School
Writtle .. .. .	Ag	Essex .. .. .	51 44N	00 26E	Principal, Institute of Agriculture
Wye .. .. .	Ag	Kent .. .. .	51 00N	00 57E	Principal, S.E. Agricultural College
Wyton .. .. .	Sa	Huntingdon .. ..	52 21N	00 07W	Meteorological Office
York .. .. .	C	Yorks, N.R. .. ..	53 57N	01 05W	York Corporation







# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*

Volume 80 Number 1

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### January 1963 — *Dry and exceptionally cold*

Weather throughout the month was dominated by anticyclones. These were mainly to the north and north-west of the British Isles but on the 12th-15th and 23rd-29th high pressure extended southward covering much of the country. Cyclonic activity to the south-west was a complicating feature of the first ten days, the 19th and the 30th.

The very cold weather with winds from an easterly point, and with temperatures near or below freezing, which set in on 22nd/23rd December, continued over most of the country throughout the month, apart from a short spell of less cold weather around the 14th and another from the 25th to the 29th.

During the first four days a strong easterly airstream covered the British Isles and a trough of low pressure moved slowly northward from France to southern England. Scattered snow showers and periods of freezing rain on the 1st and 2nd were followed by a wide belt of snow moving northward over most of England and Wales during the next two days. Heavy snowfalls in the south and south-west on the evening of the 3rd were piled by strong to gale force winds into drifts, some 15 ft deep, which blocked road and rail traffic isolating many towns and villages, some for the second time during a week. The trough became slow moving over southern England on the 5th and 6th, but, with rising pressure, further falls of snow were mainly slight.

On the 7th-12th a ridge of high pressure extended from Iceland across the northern part of the British Isles and the North Sea to the Baltic. Weather remained generally dry with day temperatures mainly around freezing point and with very severe frost at night; early morning temperatures on the 12th and 13th fell to  $-16^{\circ}\text{C}$  at places as far apart as Gatwick and Eskdalemuir. Freezing fog was widespread at night over the Midlands, northern England and the Clyde-Forth Valley and persisted throughout the day at many places from 11th to 14th.

On the 13th the ridge of high pressure moved westwards from the North Sea over the British Isles, and light northerly winds brought a slow day-time thaw to most districts on the 14th. Most of Scotland escaped frost that night, but it was general elsewhere and severe in the Midlands and southern England. After a little sleet on the 15th, associated with a weak depression moving southwards over western districts, cold easterly winds returned to all parts of the country on the 16th as an anticyclone over Scandinavia rapidly intensified.

The next nine or ten days were among the coldest of the month with continuous frost at many places from 16th to 25th. On the 17th the anticyclone over Scandinavia moved south-west and pressure became high to the north of the British Isles. During the next few days snow showers occurred fairly widely in the easterly airstream, especially in eastern districts, but on the 19th a depression in the Bay of Biscay moved north towards southern Ireland and that night and the following day snow, accompanied by strong to gale force winds with gusts frequently exceeding 50 kt, spread northward over the country. Over southern England the snow was followed by freezing rain. Another spell of freezing fog began on the 23rd as an anticyclone from the North Sea extended over the British Isles. Fog, dense at night with heavy rime deposits, persisted for much of the day over parts of the Midlands and London area on the 23rd, 24th and 25th.

On the 25th the anticyclone moved to the west of Ireland and less cold air from the Atlantic, preceded by a narrow belt of rain, spread round the northern flank of the system to cover the whole of the British Isles the following day. The night of the 26th/27th was the first frost-free night over most of the Midlands and eastern England for about three weeks. Afternoon temperatures during the next two days rose to  $5^{\circ}\text{C}$  at many places.

Cold weather returned to most districts on the 30th as winds veered to north-east with the formation of a shallow depression at the mouth of the English Channel. This depression and another small

disturbance in the southern North Sea gave fairly widespread snow in southern England during the last two days of the month.

**Pressure and Wind** — Pressure was everywhere considerably above the average, the excess at 9 hr ranging from 24.9 mb at Stornoway to 5.8 mb at Scilly. Surface winds were predominantly easterly broken by periods of light and rather variable winds sometimes from a northerly point, on the 12th-15th and 22nd-29th. Wind reached gale force in Scotland on 11 days and in England and Wales on the 1st-4th, 9th-11th, 16th-22nd and 30th-31st (16 days). Gales were widespread on the 19th and gusts of 68 kt were recorded on the 19th and 20th at Shoeburyness and Ronaldsway respectively.

**Temperature** — Mean temperatures during this exceptionally cold month were considerably below the 1931-60 average especially in England and Wales where the deficit was  $5.3^{\circ}\text{C}$ . In Scotland and Northern Ireland the deficits were  $2.8^{\circ}\text{C}$  and  $4.2^{\circ}\text{C}$  respectively. (1931-60 averages will in future be used as a reference period for temperature and sunshine). For England and Wales the month was the coldest month of the century, the nearest approach being February 1947. At Kew there has been no colder January since 1838. It was the coldest January in the records of many long established stations; at Ross-on-Wye for example since 1877 and at Newquay since 1891.

Extremes included: (England and Wales)  $9.4^{\circ}\text{C}$  at Uxbridge on the 26th,  $-20.6^{\circ}\text{C}$  at Stanstead Abbots on the 23rd; (Scotland)  $9.4^{\circ}\text{C}$  at Paisley on the 26th,  $-22.2^{\circ}\text{C}$  at Braemar on the 18th; (Northern Ireland)  $8.3^{\circ}\text{C}$  at Larne on the 25th,  $-15.0^{\circ}\text{C}$  at Loughgall on the 24th.

**Precipitation** — In spite of the occasionally heavy snowfall it was a very dry month. The general rainfall expressed as a percentage of the 1916-50 average was 36 over England and Wales, where it was the fourth successive month with rainfall below average and the driest January since 1881, 33 over Scotland and 32 over Northern Ireland. The rainfall equivalent of the precipitation, which fell mainly as snow, was above the average locally in the extreme south-east of Scotland and in the Durham area, but was less than 25 per cent of average over most of southern England, South Wales, Lancashire and the Peak District.

Thunder was heard in the Channel Islands on the 4th and in Scotland on the 20th.

Snow fell at one place or another in England and Wales every day, and also daily in Scotland except the 22nd and 23rd; ground was snow-covered throughout the month. Snow depths varied considerably from place to place, but much of south-east England was under 12 in. of snow on the 1st and snow was still 3-6 in. deep at the end of the month. Snowdepths on the 1st and 31st, in inches were: at Hampstead 12 and 9, at East Grinstead 20 and 6, at Spadeadam in Cumberland 15 and 25, at Tredegar in South Wales 32 and 40 and at Princetown on Dartmoor 18 and 20. Snow drifts 10-15 feet deep were fairly common and drifts up to 25 feet deep were reported from the south-west.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 127 in England and Wales, 131 in Scotland and 128 in Northern Ireland. In Scotland sunshine was considerably above the average in the north-west; Stornoway had its sunniest January since 1881. In England and Wales it was sunniest in the west; twice the average amounts were reported from places in Westmorland and Lancashire, and at Newquay it was the sunniest January since records began in 1891.

**Fog** — Fog was reported at 9 hr from one place or another on 16 days in Scotland, and daily except the 8th, 19th and 21st (on 28 days) in England and Wales. It was widespread on the 4th, 5th, 24th and 25th and persisted all day in many places on the 11th-14th and 23rd-25th.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 10 nights.



## DISTRICT VALUES AND WIND SUMMARY, January 1963

TABLE I—DISTRICT VALUES— January 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE						EARTH TEMPERATURE		RAINFALL		SUNSHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average		
			Max.	Min.	Mean							
0 SCOTLAND, N.	8.3	-18.2	-2.4	-2.4	-2.4	—	—	28	10	143		
1 SCOTLAND, E.	8.2	-22.2	-3.3	-2.5	-2.9	—	—	68	-3	93		
2 ENGLAND, N.E.	6.7	-15.6	-3.8	-3.2	-3.5	-2.5	-1.5	97	-4	118		
3 ENGLAND, E.	5.1	-20.6	-5.6	-5.4	-5.5	-3.4	-2.3	43	-6	105		
4 MIDLAND COUNTIES	6.7	-18.3	-5.7	-5.8	-5.8	-3.4	-1.7	35	-7	138		
5 ENGLAND, S.E.	6.2	-16.7	-6.3	-5.5	-5.9	-3.9	-2.1	28	-9	127		
6 SCOTLAND, W.	9.4	-15.7	-3.2	-3.1	-3.2	-2.2	-0.6	17	-13	157		
7 ENGLAND, N.W. (and N. Wales)	9.4	-18.3	-4.7	-4.6	-4.6	-3.0	-1.3	21	-12	150		
8 ENGLAND, S.W. (and S. Wales)	8.1	-17.2	-6.5	-6.3	-6.4	-4.1	-2.3	24	-13	117		
NORTHERN IRELAND	8.3	-15.0	-4.1	-4.4	-4.2	-	-	32	-12	128		

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— January 1963 (1914)

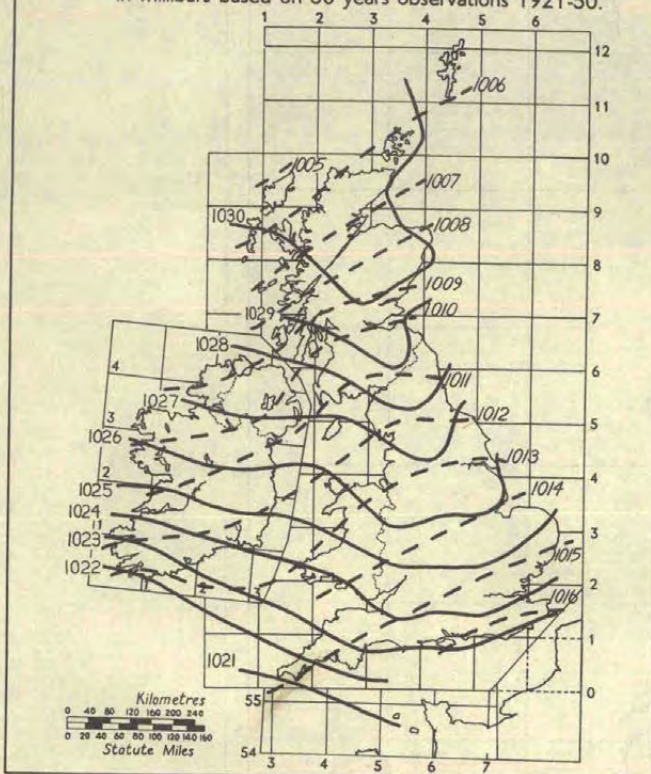
DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Mean Hourly Wind Speed	Highest Velocities					
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Highest Hourly Wind			Highest Gust					
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Veer from N	Speed	Hour ended at		Speed	Day and Time				
																	ft.	ft.	ft.	hr.	hr.
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	25, 30	3	9	65	282	376	18	0	11.8	270	39	25	17	66	25	1655
	Orkney	Kirkwall	134	50	33	25, 30	4	11	77	321	292	50	0	12.5	270	36	25	19	53	25	1835
	Caithness	Downreay	110	39	30	-	0	11	65	316	346	2	15	12.0	280	33	25	22	52	25	2200
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	20, 21, 30	15	17	133	410	100	86	0	15.3	080	41	20	14	55	20	1330
		Duirinish	125	65	55	-	0	4	10	327	333	74	0	10.1	070	29	20	13	52	20	1200
	Inverness	Benbecula	69	51	35	-	0	9	59	348	233	104	0	11.4	090	31	20	13	47	20	1235
1	Moray	Lossiemouth	101	80	60	-	0	6	22	294	304	120	4	9.8	280	29	25	23	49	25	2240
	Aberdeen	Dyce	225	40	40	-	0	0	0	203	304	237	0	6.9	270	20	25	22	33	20	0410
	Angus	Auchterhouse	822	62	50	-	0	0	0	-	-	-	0	-	-	-	-	-	-	-	-
		Bell Rock Lighthouse	128	131	124	2, 20, 30	28	23	299	330	81	6	0	20.7	070	44	20	10	59	20	1000
	Perth	Rannoch	1006	56	57	20, 30	12	11	36	301	201	194	0	10.4	080	43	20	13	66	20	1215
	Fife	Leuchars	78	40	40	20	10	9	98	294	307	35	0	12.7	100	36	20	11	53	20	1035
	Midlothian	Turnhouse	137	40	33	20	6	4	15	266	320	137	0	9.4	090	42	20	12	66	20	1220
		Edinburgh, Blackford Hill	496	50	34	-	0	5	18	436	237	53	0	11.5	250	27	26	01	52	20	0420
6a	Argyll	Tiree	89	60	47	20, 21, 29, 30	28	12	109	453	109	45	0	16.0	110	44	20	17	61	20	1605
	Bute	Millport	50	34	34	20	14	5	36	295	198	201	0	10.1	060	50	20	08	64	20	0705
	Renfrew	Paisley	188	81	31	-	0	1	4	188	266	286	0	6.4	090	25	20	11	52	20	0350
		Renfrew	71	41	39	20	4	2	16	211	268	245	0	7.4	100	37	20	10	56	20	0955
	Lanark	Lowther Hill	2412	43	33	1-6, 9, 18-21	106	21	236	239	129	34	0	21.2	100	86	20	11	100	20	1045
	Ayr	Prestwick Airport	68	33	33	20	1	2	18	203	352	170	0	8.1	090	36	20	12	52	20	1140
	Dumfries	Eskdalemuir Observatory	825	50	35	20	3	5	24	181	295	241	0	7.5	060	36	20	03	59	20	0905
	Wigtown	West Freugh	83	33	33	20	1	3	20	226	332	165	0	8.6	100	34	20	09	60	20	0830
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	113	64	39	1, 9, 18, 19, 20, 21	61	18	231	247	163	37	0	18.4	090	46	1	01	68	20	0135
		Point of Ayre	70	40	35	20, 21	15	11	80	413	179	57	0	14.2	120	38	20	12	61	20	1150
2	Durham	Durham	389	53	33	-	0	1	10	263	216	255	0	7.5	090	26	20	10	49	20	0955
		South Shields	73	57	44	20	13	10	121	354	221	35	0	14.2	100	37	20	09	49	20	1205
	Lincoln	Cranwell	288	47	47	-	0	1	8	256	408	72	0	8.8	080	26	19	22	48	19	1905
3	Norfolk	Horstead	45	33	33	19	4	9	116	325	275	19	5	13.9	070	37	19	16	52	19	1550
	Suffolk	Mildenhall	98	83	60	-	0	1	8	164	359	213	0	6.7	070	28	19	15	52	19	1640
	Bedford	Cardington	226	133	133	-	0	4	28	341	276	99	0	10.6	030	33	19	17	47	19	1650
	Hertford	Garston	307	50	33	-	0	0	0	40	550	154	0	5.6	050	16	19	14	40	19	1550
	Essex	Rothamsted	461	41	33	-	0	0	0	107	420	217	0	5.9	040	21	19	17	41	19	1315
		Stansted	358	31	31	-	0	4	22	270	341	111	0	9.8	040	29	19	13	49	19	1615
		Coryton	66	57	48	-	0	2	6	233	376	129	0	8.5	050	24	19	13	52	19	1410
		Shoeburyness	118	106	91	7, 16-19	36	15	215	238	199	56	0	16.3	070	45	19	15	68	19	1430
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	49	462	233	0	5.2	070	16	19	24	39	19	2325
	Warwick	Edgbaston	643	118	73	-	0	1	2	209	472	61	0	8.4	040	23	19	19	56	19	2005
		Elmdon	362	30	31	-	0	1	8	183	417	136	0	7.7	050	27	19	19	42	19	1820
	Stafford	Keele	706	50	33	-	0	5	11	218	291	224	0	8.0	050	27	19	22	53	19	2225
	Gloucester	Avonmouth	92	61	33	-	0	3	10	230	250	245	9	7.7	030	27	19	17	49	19	1635
5	London	Kingsway	208	143	41	-	0	2	6	209	450	79	0	8.5	030	25	19	15	50	19	1340
	Middlesex	London (Heathrow) Airport	115	33	33	-	0	4	13	277	384	70	0	10.0	030	30	19	14	48	19	1420
		Hampton	139	101	100	-	0	1	5	177	372	190	0	7.3	050	26	19	15	51	19	1540
	Surrey	Kew Observatory	92	75	50	-	0	5	14	230	310	190	0	8.4	030	27	19	16	58	19	1415
		Gatwick	232	38	33	-	0	3	18	187	335	206	0	7.5	040	30	19	13	51	19	1220
	Kent	Isle of Grain	48	40	33	19	5	8	45	264	205	214	11	9.8	050	39	19	13	48	19	1430
		Dover	68	38	62	-	0	1	4	260	367	113	0	8.7	050	25	19	13	47	19	1210
	Sussex	Thorney Island	75	65	42	-	0	2	8	252	367	117	0	8.7	040	25	19	16	41	19	1505
	Hampshire	Hurn	86	53	46	-	0	4	24	407	295	18	0	11.8	080	27	18	21	40	18	1935
		Calshot	50	41	33	-	0	0	0	91	436	217	0	5.7	040	18	19	15	44	19	1455
		S. Farnborough	313	69	35	-	0	0	0	232	304	199	0	7.7	040	25	19	11	33	18	1825
	Berkshire	Abingdon	295	40	40	-	0	2	9	252	292	165	0	9.5	040	33	19	16	45	19	1520
	Wiltshire	Larkhill	491	51	36	-	0	4	35	252	292	165	0	9.5	040	33	19	16	45	19	1520
		Boscombe Down	425	55	55	-	0	5	24	300	321	99	0	10.1	060	25	19	07	46	18	2015
		Porton	406	44	44	-	0	6	28	245	235	236	0	8.6	070	29	18	20	44	18	1940
7a	Cumberland	Carlisle	137	42	30	20	1	2	8	122	311	302	0	5.4	070	34	20	10	62	20	0945
		Sellafield	83	39	35	20	2	5	26	167	432	116	1	8.3	070	39	20	04	60	20	0355
		Spadeadam	959	51	40	20, 21	22	8	55	353	241	20	53	13.4	070	46	20	07	62	20	0640
	Westmorland	Moor House	1960	50	45	-	0	4	14	161	391	178	0	7.3	080	32	19	24	55	20	0010
	Lancashire	Southport	59	41	33	-	0	2	7	190	280	267	0	6.8	080	28	19	24	49	20	0025
		Fleetwood	112	50	31	-	0	5	18	257	334	135	0	-	090	33	20	01	56	20	0025
		Speke	84	41	33	-	0	4	14	161	391	178	0	7.3	080	32	19	24	55	20	0010
		Manchester W/Centre	268	147	55	-	0	2	7	190	280	267	0	6.8	080	28	19	24	49	20	0025
	Cheshire	Bidston Observatory	262	64	39	-	0	5	18	257	334	135	0	-	090	33	20	01	56	20	0025
		Ringway	261	33	33	19	4	7	34	198	244	264	0	8.0	060	39	19	23	59	19	2220
7b	Anglesey	Valley	76	50	40	-	0	5	19	301	245	179	0	9.0	050	33	19	24	54	19	2345
8a	Cardigan	Aberporth	483	41	41	19	4	13	67	349	186	138	0	11.7	050	35	19	21	54	19	2010
	Glamorgan	Port Talbot	91	40	35	-	0	8	42	315	252	135	0	10.5	070	28	19	11	54	19	1050
		Rhosee	257	37	32	-	0	12	102	301	304	37	0	12.9	070	31	21	18	48	18	2145
8b	Devon	Plymouth Hoe	191	88	65	-	0	8	50	323	278	93	0	13.9	-	30	9	18	54	9	1730
	Cornwall	St. Mary's, Scilly	230	65	57	9, 10, 17-19	32	17	188	365	130	31	0	17.3	080	39	18	14	60	18	1545
		The Lizard	315	75	60	9, 11, 17, 18, 19	55	17	205	247	184	44	9	17.5	090	42	18	13	63	18	1500
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	19	1	6	41	275	187										



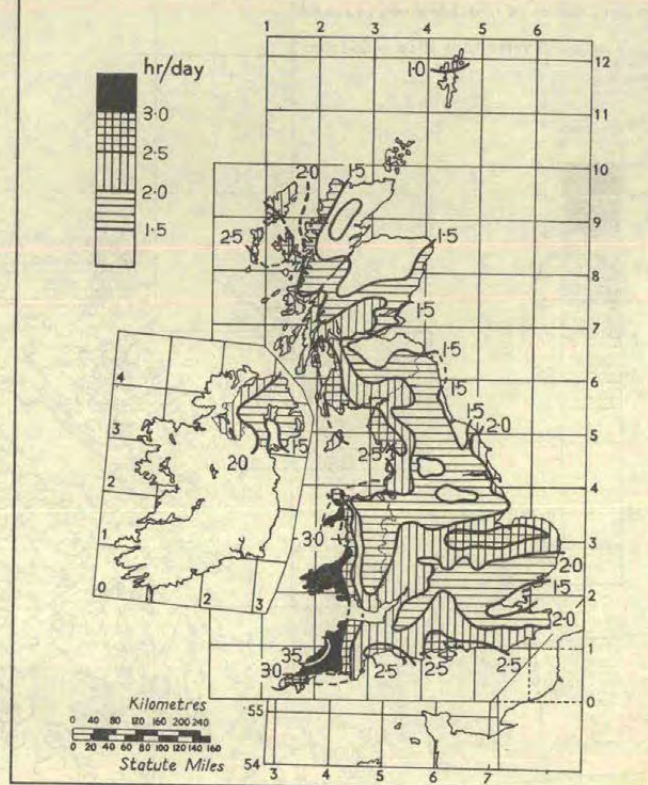
# MONTHLY WEATHER CHARTS JANUARY 1963

## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.



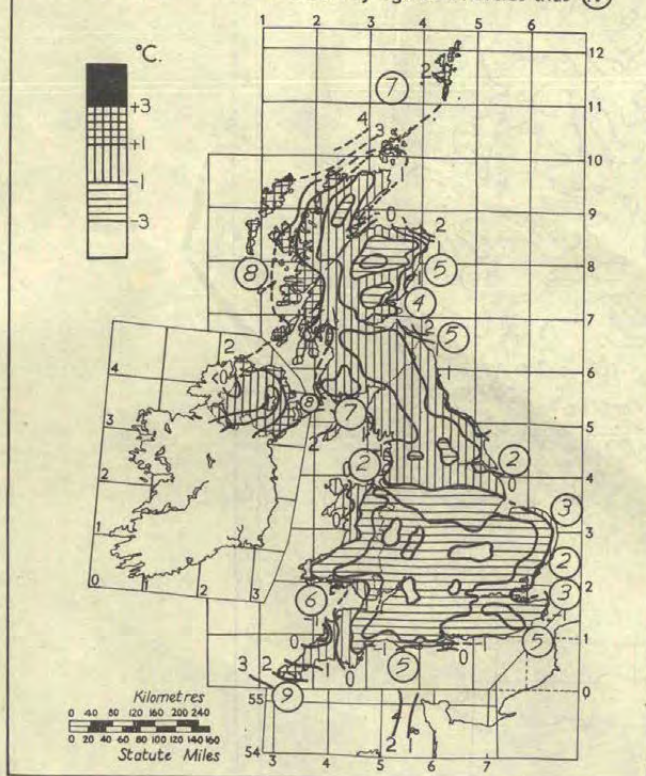
## BRIGHT SUNSHINE



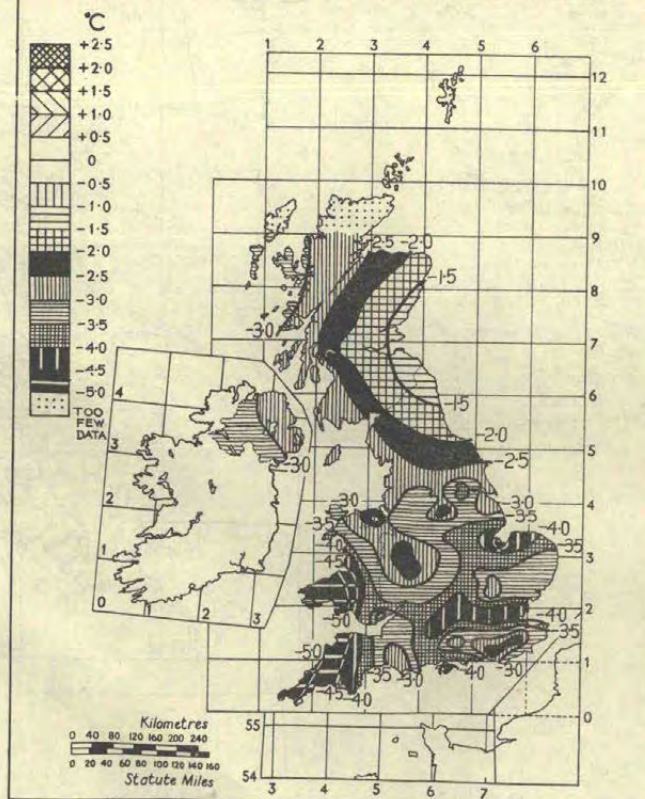
## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft.

Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL JANUARY 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

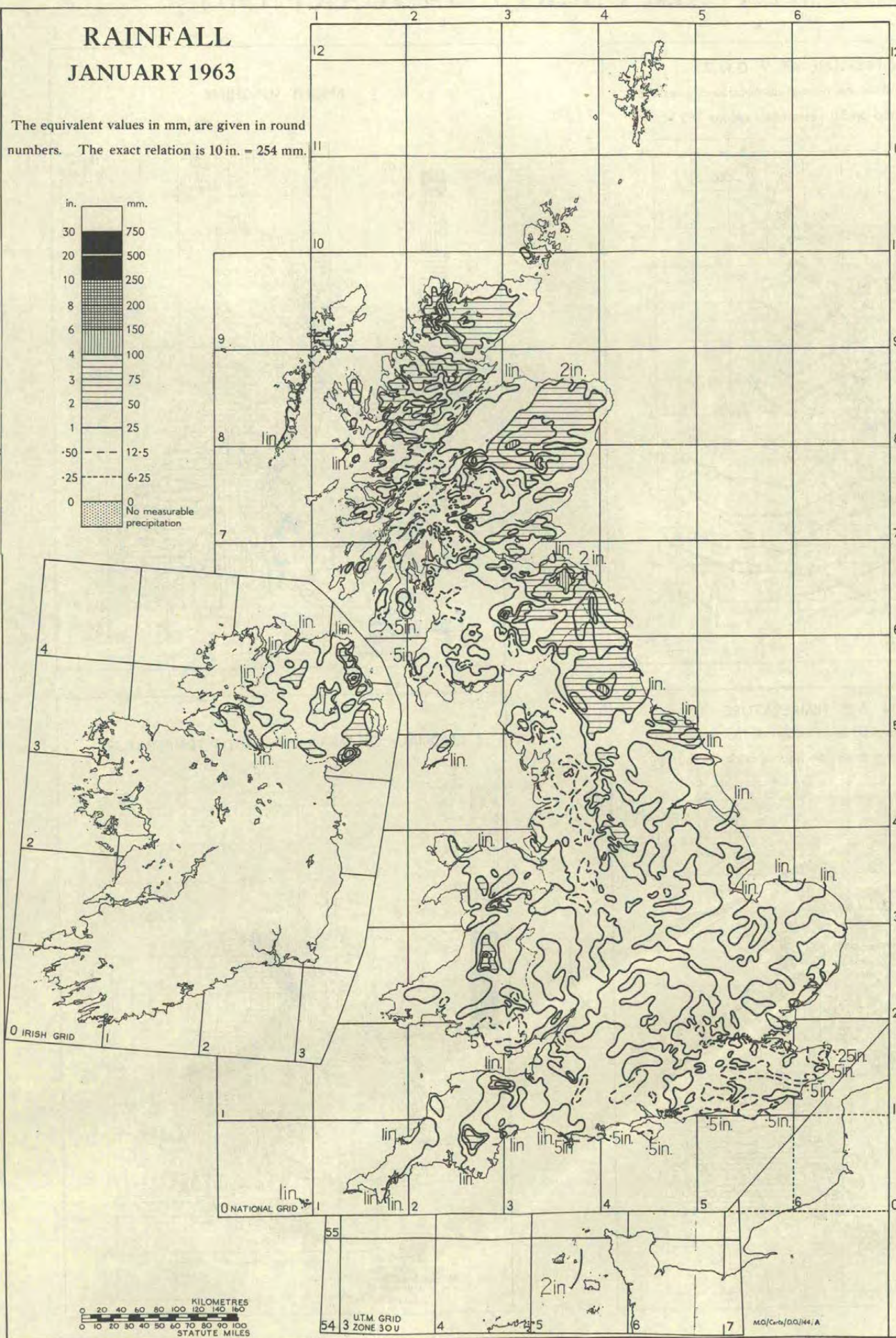
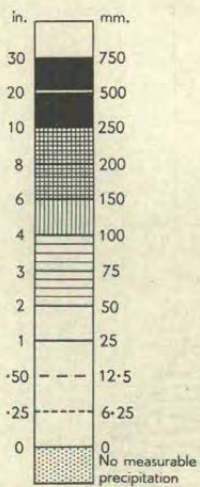




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n (0.1mm. or more)	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C	Gale	Daily Mean	Percentage of Average			
			A Max.	B Min.		Maximum	Date	Minimum	Date					Amount	Date															
			°C.	°C.		°C.	°C.	°C.	°C.					in.	%													in.	%	
0 SCOTLAND, N.																														
Zetland	Hamnavoe	9 9 70	4.2	0.9	2.5	-	7.2	23,26,28	-2.2	1, 12	-	-	1.31	-	.31	29	18	10	7	5	2	0	0	0	13	-	2	1.23	-	
	Lerwick Obs'y.	21-9 269	2.7	-0.6	1.1	-2.0	6.9	23	-6.7	12	-	-	1.57	35	.40	29	20	9	20	19	1	12	0	0	16	26	3	1.20	150	
	Baltasound	9 9 78	3.8	-0.6	1.6	-	7.8	23	-6.1	1	3.1	-	-	1.70	35	.39	29	23	10	18	19	6	0	0	0	17	-	3	0.75	-
Orkney	Sule Skerry	9 9 43	5.0	2.7	3.9	-	8.0	25,26	-1.0	5	-	-	-	1.26	-	.21	29	19	12	3	4	3	0	0	0	1	12	2	-	-
	Stenness	9 9 75	3.2	-2.1	0.5	-	7.2	25,26,27	-12.8	12	1.9	-	-	1.57	-	.28	29	22	13	10	19	1	3	0	0	17	25	3	1.07	-
	Costa	9 9 115	4.1	0.3	2.2	-	7.8	26	-4.4	17, 18	-	-	-	1.69	-	.42	29	19	14	14	11	2	10	0	0	12	17	3	1.26	-
	Kirkwall	21-9 84	3.7	0.1	1.9	-	7.5	26	-3.9	11	-	-	-	1.55	36	.43	29	18	11	19	14	11	0	0	0	15	21	2	1.39	126
Caithness	Dounreay	9 9 70	3.6	-2.3	0.7	-	7.8	25	-10.0	12	-	-	-	2.01	-	.29	29	21	17	10	16	0	2	0	0	8	23	3	-	-
	Wick	21-9 119	3.0	-1.6	0.7	-2.7	6.9	26	-9.2	18	-	-	-	1.50	51	.27	29	20	15	17	13	0	11	0	0	15	23	0	1.22	86
Sutherland	Cape Wrath	21-9 367	4.5	0.9	2.7	-	8.0	25	-5.0	18	-	-	-	1.57	31	.57	3	20	9	11	6	3	0	0	0	13	18	5	-	-
	Achany	9 9 280	0.9	-7.0	-3.1	-	5.6	24,25,26	-19.4	11	1.1	4.3	-	2.06	45	.49	4	18	11	13	30	2	2	0	0	23	28	0	-	-
	Strathay	9 9 120	2.5	-3.8	-0.7	-	6.7	25,26	-12.8	12	-	-	-	2.25	51	.38	29	22	17	15	23	2	0	0	0	20	-	0	1.31	134
Ross & Cromarty	Stornoway	21-9 11	4.5	0.4	2.5	-1.8	7.3	25	-7.2	12	-	-	-	1.01	24	.23	15	13	9	12	3	0	6	0	0	14	21	0	2.13	188
	Balmacara	9 9 2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Poolewe	9 9 20	4.0	-1.5	1.3	-	7.8	25	-6.7	7	-	-	-	1.48	-	.42	29	10	9	2	-	0	0	0	0	18	27	0	2.12	- S
	Inverpoll	9 9 45	3.5	-3.4	0.1	-	7.2	25,26,27	-11.7	18	1.8	-	-	1.48	-	.30	29	10	10	7	23	0	0	0	0	20	-	0	-	-
	Achnashellach	9 9 220	3.0	-3.6	-0.3	-3.1	7.8	25	-10.6	13, 18	-	-	-	1.40	16	.40	29	11	9	5	0	0	0	0	0	23	-	1	-	-
	Kinlochewe	9 9 76	3.1	-3.1	0.0	-	(7.8)	25	-11.1	11, 12	1.6	-	-	1.46	-	.21	4,29	10	10	4	4	0	0	0	0	22	28	0	1.57	- S
	Blackbridge	9 9 690	1.4	-7.1	-2.9	-	5.6	25,26,27	-17.2	13, 18	-	-	-	1.29	-	.29	4	15	12	-	-	-	-	-	26	29	-	0.83	-	
	Fortrose	9 9 15	2.7	-1.4	0.7	-3.0	7.2	25,26	-7.2	18	-	-	-	.48	21	.16	19	6	5	4	14	1	0	0	2	18	-	0	1.36	87
Inverness	Tarbatness	21-9 60	3.0	-0.9	1.1	-	5.5	25,26	-8.0	18	-	-	-	1.07	-	.21	2,4	10	9	9	11	0	0	0	0	15	-	0	-	-
	Benbecula	21-9 19	4.4	0.5	2.5	-	7.8	24	-5.6	18	-	-	-	.80	17	.26	15	10	5	8	3	0	7	0	0	12	21	0	2.49	-
	Isle of Rhum	9 9 15	4.3	-0.6	1.9	-	7.8	29	-7.8	13	1.3	5.9	-	1.25	-	.57	15	6	5	3	2	0	2	0	0	13	31	1	-	-
	Prabost	9 9 220	3.2	-1.2	1.0	-	6.7	25,29	-6.7	18	-	-	-	1.46	-	.39	29	15	9	6	26	0	7	0	0	18	27	1	2.67	-
	Duntulm	9 9 294	3.7	-0.2	1.7	-	7.2	25	-4.4	18	-	-	-	1.23	21	.39	15	11	8	5	6	7	0	0	0	14	22	0	2.51	230 S
	Onich	9 9 48	3.7	-1.5	1.1	-2.5	8.3	25,26	-8.9	13	-	-	-	.64	7	.23	29	6	5	6	1	0	0	0	0	16	28	2	1.97	203 S
	Fort William	9 9 27	3.4	-2.9	0.3	-	7.8	26	-11.7	13	0.4	3.0	-	.31	-	.20	29	6	2	10	1	0	0	0	1	19	27	1	1.82	- S
	Fort Augustus	9 9 70	2.3	-3.3	-0.5	-3.1	6.7	25	-12.2	18	-	-	-	.62	-	.21	30	11	4	6	13	0	0	0	0	19	-	1	1.65	- S
	Cannich	9 9 350	0.3	-8.1	-3.9	-	6.7	25	-18.3	18, 19	-	-	-	.83	14	.23	26	7	7	6	29	0	0	0	0	28	30	0	-	-
	Inverness	9 9 13	2.8	-2.8	0.0	-	7.8	26	-7.8	11, 18, 19	-	-	-	.21	-	.09	30	6	2	1	26	0	0	0	3	23	28	0	1.36	-
	Achnagoichan	9 9 1000	-0.1	-6.3	-3.2	-	4.4	26	-16.1	7	1.6	-	-	1.80	-	.50	30	16	10	-	-	-	-	-	28	31	-	-	-	-
	Glenmore Lodge	9 9 1120	0.2	-6.8	-3.3	-	4.1	26	-18.2	18	-	-	-	1.84	-	(.72)	30	10	7	13	31	0	0	0	1	29	30	1	0.83	- S
1 SCOTLAND, E.																														
Nairn	Nairn	9 9 20	2.4	-3.4	-0.5	-3.6	7.2	25	-12.2	18	-	-	-	.90	45	.20	19	11	7	4	26	0	0	0	1	20	29	0	1.56	98
Moray	Grantown-on-Spey	9 9 720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Forres	9 9 155	1.8	-4.2	-1.2	-	6.7	25	-13.3	18	0.4	3.6	-	.67	36	.19	29	14	6	10	27	1	1	0	0	24	25	0	1.54	89
	Kinloss	21-9 15	1.7	-3.9	-1.1	-	6.3	26	-12.2	18	1.5	-	-	1.09	-	.22	11	18	6	20	25	0	8	0	0	24	26	0	1.50	-
	Elgin	9 9 92	2.4	-3.2	-0.4	-	6.1	25,26	-11.1	18	-	-	-	1.31	-	.35	29	20	11	16	25	0	0	0	0	20	26	0	1.64	-
	Lossiemouth	9 9 21	2.8	-3.3	-0.3	-	7.2	26	-10.6	9, 13	-	-	-	1.62	-	.29	29	19	14	14	13	0	12	0	0	21	28	0	-	-
	Gordon Castle	9 9 104	2.4	-3.2	-0.4	-3.5	6.1	25,27	-11.1	10	-	-	-	1.56	66	.45	29	15	12	12	31	3	0	0	0	19	-	0	1.39	96
Barff	Barff	9 9 80	3.4	-1.9	0.7	-	6.1	25,27	-9.4	18	-	-	-	2.36	-	.38	11	23	15	16	19	4	1	0	0	19	-	1	1.10	-
Aberdeen	Braemar	9 9 1113	-0.7	-8.6	-4.7	-5.3	5.0	25	-22.2	18	-	-	-	2.95	72	.60	4	15	15	-	-	-	-	-	0	31	-	-	-	-
	Balmoral	9 9 927	-0.6	-8.1	-4.3	-4.9	5.0	25	-18.9	18	-	-	-	2.07	60	.44	4	21	14	18	31	0	0	0	0	29	31	0	-	-
	Dinnert	9 9 580	0.7	-5.8	-2.5	-	5.0	25,26,29	-16.7	18	1.3	-	-	1.85	-	.35	2	20	10	11	31	1	0	0	0	27	30	0	-	-
	Huntly	9 9 405	0.6	-4.9	-2.1	-	4.8	27	-16.3	18	-	-	-	2.13	-	.28	2	20	17	17	31	5	0	0	0	23	28	0	-	-
	Fyvie Castle	9 9 218	1.7	-5.8	-2.1	-	5.0	25,26	-15.6	9	-	-	-	2.14	-	.38	10,29	18	12	8	31	0	0	0	0	24	31	0	1.25	-
	Craigstone	9 9 300	1.8	-2.1	-0.1	-2.6	5.0	25,26	-9.4	23	1.4	3.6	-	1.74	57	.38	3	20	11	17	28	1	6	0	0	23	28	1	1.64	91
	Dyce	21-9 190	1.8	-3.0	-0.6	-	5.1	25	-12.3	17	-	-	-	1.98	63	.41	4	18	13	22	27	0	11	0	0	21	30	0	1.62	-



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WIND DIRECTION																																
DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Highest Maximum and Lowest Minimum				Precip'n				Total Fall	Per-centage of Average	Most in a day		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average				
				A Max.	B Min.	Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date			0.1 in. (0.2 mm.) or more	0.1 in. (1.6 mm.) or more															
				Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%			
1 SCOTLAND, E.—cont.																																
Midlothian		Balerno ...	9 9	700	0.9	-4.5	-1.8	-	5.0	26	-13.9	17	-	-	1.74	-	(.50)	29	13	8	8	-	0	0	0	0	29	31	0	1.03	70	
		Turnhouse ...	21-9	114	2.5	-2.4	0.1	-2.7	8.2	26	-11.3	13	-	-	1.72	71	.49	29	12	7	17	16	2	7	0	2	22	26	1	1.35	-	
		Edinburgh—E. Craigs	9 9	200	2.3	-2.7	-0.2	-	7.2	26	-10.6	13	-	-	2.03	-	.49	29	12	9	13	25	1	3	0	1	23	28	1	1.40	- S	
		Davidson's Mains	9 9	200	2.2	-2.3	-0.1	-	7.2	26	-9.4	13	0.9	-	1.56	-	.54	29	14	8	16	27	0	0	0	1	22	31	1	1.36	- S	
		Penicuik ...	9 9	620	1.2	-4.5	-1.7	-	6.1	26	-14.4	17	1.1	-	2.44	-	.71	29	14	13	16	31	0	0	0	0	30	31	0	1.22	-	
		Bush House ...	9 9	605	1.4	-4.1	-1.3	-	6.1	26	-12.8	12	0.6	3.1	2.09	-	.51	10	13	9	10	31	0	0	0	0	29	31	0	1.24	-	
		Edinburgh—																														
		Blackford Hill §§	9 9	441	1.8	-1.7	0.1	-3.1	6.1	26	-6.7	17, 23	-	-	1.85	76	.57	29	15	10	13	26	0	0	0	0	23	28	0	1.35	77	
		Liberton ...	9 9	200	2.3	-2.7	-0.2	-	7.2	26	-11.7	13	-	-	1.95	-	.70	29	12	8	15	29	0	0	0	0	21	28	0	1.29	-	
		Royal Bot. Gdns.	9 9	74	2.8	-2.0	0.4	2.6	7.2	26	-8.9	13	0.9	-	1.42	-	.49	29	12	7	12	25	0	2	0	0	1	21	29	0	1.28	90
E. Lothian		Haddington ...	9 9	162	2.1	-3.5	-0.7	-	5.6	25, 26	-16.7	13	-	-	2.45	-	.47	29	19	12	14	31	8	2	0	0	0	23	31	0	0.96	- S
		North Berwick ...	9 9	51	2.9	-1.2	0.9	-	6.7	26	-7.2	13	-	-	2.66	125	.43	3	17	14	13	16	0	0	0	0	18	-	0	0.61	-	
		Dunbar ...	9 9	75	3.3	-0.7	1.3	-	6.7	26	-7.2	17	-	-	2.00	-	.43	3	15	12	12	8	6	0	0	0	10	23	0	1.25	69	
Berwick		Mertoun ...	9 9	225	1.8	-5.1	-1.7	-	7.2	26	-17.2	13	-	-	2.33	-	.49	4	17	12	-	-	-	-	-	-	23	31	-	1.85	-	
		Lauder ...	9 9	600	1.1	-4.6	-1.7	-	5.6	26	-17.2	23	-	-	2.75	-	.46	29	15	13	27	31	0	0	0	0	26	31	0	1.80	-	
		Marchmont §§	9 9	498	1.6	-2.7	-0.5	-2.8	5.6	27	-11.7	23	-	-	2.94	102	.43	4	18	15	17	31	0	0	0	0	24	-	1	1.37	96 S	
		St. Abb's Head ...	9 9	245	3.1	0.8	1.9	-	6.4	26	-5.0	23	-	-	1.05	-	.22	11, 29	16	8	14	6	0	13	0	0	9	15	1	-	-	
Peebles		Stanhope Farm ...	9 9	741	1.1	-4.2	-1.5	-	5.0	25, 26	-15.0	12, 13	-	-	1.05	-	.44	29	8	5	18	29	0	0	0	0	27	31	1	-	-	
		Blyth Bridge ...	9 9	830	0.4	-4.6	-2.1	-	3.9	26	-16.1	13	-	-	1.23	-	.53	29	12	7	18	31	0	0	0	0	28	31	1	1.32	-	
		West Linton ...	9 9	800	0.4	-5.8	-2.7	-	5.6	26	-21.1	13	-0.3	3.2	.78	-	.17	29	10	6	10	31	0	1	0	0	30	31	0	-	-	
		Glenfress ...	9 9	580	1.3	-4.5	-1.6	-	6.1	26	-17.8	13	-	-	1.23	-	.39	29	8	6	15	30	0	0	0	0	25	-	1	-	-	
Selkirk		Bowhill ...	9 9	600	1.6	-4.4	-1.4	-	6.1	26	-14.4	13	-	-	2.44	-	.45	31	18	7	19	31	0	0	0	0	1	23	-	0	-	-
Roxburgh		Wauchope ...	9 9	560	1.1	-6.0	-2.5	-	6.7	27	-16.7	13, 17	-	-	1.97	-	.33	29	14	13	-	31	-	-	-	1	24	-	-	-	-	
		Sourhope ...	9 9	900	0.5	-3.9	-1.7	-	3.9	26	-10.0	13	-	-	1.70	-	.34	29	12	11	-	31	-	-	-	4	29	-	-	1.55	-	
6a SCOTLAND, W.																																
Argyll		Tiree ... §§	21-9	29	4.3	0.4	2.3	-3.0	7.8	26	-5.4	18	-	-	.67	14	.33	15	7	3	2	0	0	3	0	0	10	26	4	2.16	167	
		Rhuvaal ...	21-9	65	4.2	1.4	2.8	-	8.0	27	-1.9	24	-	-	1.14	-	.36	4	9	7	4	0	0	0	0	0	9	20	1	-	-	
		Colonsay ...	9 9	87	4.2	-0.7	1.7	-	8.3	25, 26, 27	-8.9	13	-	-	.78	13	.40	15	8	5	3	-	3	0	0	0	0	13	-	3	-	-
		Tobermory ...	9 9	270																												
		Campbeltown ...	9 9	10	4.4	-0.7	1.9	-	7.8	27, 28	-7.2	12	-	-	.34	-	.15	15	4	3	-	0	-	-	-	-	16	-	2	2.69	-	
		Achaglachgach ...	9 9	40	3.9	-3.4	0.3	-	8.3	26	-10.0	14	-	-	.76	-	.37	15	6	5	3	-	0	1	0	0	25	31	1	-	-	
		Oban ...	9 9	229																												
		Lepinmore ...	9 9	30	3.7	-1.6	1.1	-	7.8	26	-7.2	13	-	-	.69	-	.23	15	11	4	8	0	0	0	0	0	19	29	1	2.18	- S	
		Glenbranter ...	9 9	120	2.5	-3.1	-0.3	-3.1	7.8	26	-11.1	23	-	-	.85	7	.20	18	10	7	-	7	-	-	-	0	23	30	-	-	-	
		Benmore																														
		Forestry Sch. ...	9 9	46	3.6	-2.9	0.3	-	9.4	26	-9.4	12, 13	0.4	3.0	.66	6	.16	29	9	6	2	1	0	0	0	0	24	27	0	-	-	
		Younger Bot. Gdns.	9 9	40	3.4	-1.9	0.7	-	8.9	26	-7.8	12, 13	-	-	.57	-	.16	29	12	4	8	4	0	1	0	0	16	24	1	2.58	190	
Bute		Rothsay §§	9 9	150	3.2	-0.7	1.3	-2.8	7.2	26	-5.0	13	1.3	3.9	.74	12	.30	15	10	5	2	0	0	0	0	5	16	24	1	-	-	
		Millport ...	9 9	16	4.0	-0.1	1.9	-	8.3	25, 26, 27	-3.9	18, 19	-	-	.39	8	.17	29	4	3	5	0	0	0	0	0	12	-	2	-	-	
Dunbarton		Helensburgh ...	9 9	293	2.4	-2.8	-0.2	-3.0	8.3	25, 26	-8.9	13	-	-	.49	7	.17	29	9	5	8	3	0	0	0	0	1	25	-	0	-	-
		Cumbernauld ...	9 9	310	1.0	-4.6	-1.8	-	6.1	26	-14.4	13	-	-	1.67	-	.37	3	14	7	15	31	0	0	0	0	4	27	31	1	-	-
Stirling		Earls Hill ...	9 9	1100	-0.5	-3.9	-2.2	-	5.0	27	-9.0	16, 22, 23	-	-	.31	-	.07	3	8	4	-	-	-	-	-	2	30	29	-	1.88	-	
		Stirling ...	9 9	151	2.7	-2.4	0.1	-2.8	8.9	26	-10.0	13	0.9	5.5	.56	12	.26	29	11	6	9	20	0	1	0	0	1	22	31	1	2.23	-
		Falkirk ...	9 9	100	2.9	-3.1	-0.1	-	7.8	15	-10.6	13	-	-	1.14	-	.29	29	10	6	-	20	-	-	-	-	21	-	-	-	-	
Renfrew		Greenock ...	9 9	200	2.6	-1.6	0.5	-3.3	7.8	26	-6.7	13	-	-	.32	4	.11	29	6	4	2	0	0	0	0	5	22	27	0	1.38	- S	
		Paisley ...	9 9	106	2.5	-2.7	-0.1	-3.6	9.4	26	-11.1	13	-	-	.7.																	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
						Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average		Most in a day		Precip'n										Daily Mean		Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
A	B	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation Max. Min.		Height of Station above Mean Sea Level ft.		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE 1 ft. 4 ft.		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE Daily Mean Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
							Means of				Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average		Most in a day		Precip'n		Snow or Sleet		Snow lying at 9h.		Hail				Ice or snow pellets etc.		Thunder heard		Fog at 9h.		Air Frost		Grass min. below 0° C.		Gale																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
							A	B	Mean	Difference	Maximum	Date	Minimum	Date			in.	%	in.	%	Amount	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.			Air Frost	Grass min. below 0° C.	Gale	hr	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							Max.	Min.	Mean	Difference	Maximum	Date	Minimum	Date			in.	%	in.	%	Amount	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.			Air Frost	Grass min. below 0° C.	Gale	hr	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
4 MIDLAND COUNTIES—cont.			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER (Number of days)										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																				
						Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n			Snow lying at 9h.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C	Gale	Daily Mean			Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																		
A	B	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	%	in.	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or more	0.1in. (2.5mm) or



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS										EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE			
			Means of				Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n -0.1in.(0.2mm.) -0.01in.(1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost + ° F	Grass min. below 0° C	Gale	Daily Mean ° F	Percentage of Average %				
			A Max.	B Min.	Mean Temperature of A and B	Difference from Average °	Maximum	Date	Minimum	Date					Amount	Date																
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.																				
7a ENGLAND, N.W.—cont.																																
Westmorland Great Dun Fell	21-9	2780	-4.0	-6.3	-5.1	-	0.0	26	-11.3	22	-	-	-	-	-	-	-	31	-	-	-	-	-	-	17	31	-	-	1.38	-	-	
—cont. Moor House	9 9	1825	-2.1	-6.1	-4.1	-	1.7	25,26,27	-11.7	18	0.3	-	-	-	2.55	-	.25	20	17	13	-	31	-	-	8	30	31	-	1.65	-	-	
Lancashire Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Squires Gate	21-9	33	1.9	-4.1	-1.1	-	5.6	26	-11.3	24	-	-	-	.70	22	.23	29	8	5	14	11	0	3	0	5	26	26	3	2.57	165	-	
Urswick	9 9	130	2.5	-3.5	-0.5	-	9.4	26	-10.0	23	-	-	-	.94	-	.31	29	8	6	9	9	0	2	0	4	25	-	1	-	-	-	
Southport	9 9	16	1.6	-4.7	-1.5	-	4.4	27	-11.7	24	-0.7	7.2	-	.47	-	.19	29	5	3	-	-	-	-	3	24	27	-	2.49	-	-	-	
Poulton-le-Fylde	9 9	38	-	-	-	-	6.1	26	-10.6	24	-	-	-	.70	-	.25	29	8	6	12	25	0	0	0	1	23	-	0	-	-	-	
Grizedale	9 9	300	-	-4.6	-	-	-	-	-11.7	13,23	-5.0	-	-	.92	-	.39	29	5	5	8	25	0	2	0	2	26	31	1	-	-	-	
Speke	21-9	80	1.3	-3.3	-1.0	-	5.7	26	-10.7	24	-	-	-	.88	31	.21	3	9	7	15	29	2	1	0	8	25	28	2	1.75	-	-	
Kirkham	9 9	78	1.7	-4.2	-1.3	-	6.1	26	-10.6	13	-	-	-	.30	8	.18	29	3	2	10	29	0	0	0	4	25	31	0	2.27	-	-	
Garstang	9 9	68	2.2	-3.9	-0.9	-	6.7	26	-12.8	23	-	-	-	.30	-	.16	29	2	2	-	-	-	-	-	1	22	30	-	2.25	-	-	
Morecambe	9 9	24	1.9	-2.7	-0.4	-	5.6	26	-8.9	23	-	-	-	.64	17	.18	29	8	5	5	12	-	-	-	0	26	-	-	2.27	151	-	
Preston	9 9	108	1.9	-4.2	-1.1	-	6.7	26	-11.1	24	-	-	-	.45	12	.16	3,29	7	4	11	10	1	1	0	9	22	29	0	-	-	-	
Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Darwen	9 9	724	0.4	-3.9	-1.7	-4.3	4.4	26	-8.9	23	-	-	-	.49	8	.12	29	11	4	13	31	0	0	0	0	29	-	0	-	-	-	
Stonyhurst	9 9	377	1.4	-4.1	-1.3	-4.3	7.2	26	-10.6	12	-	-	-	.52	11	.17	3	8	4	-	31	-	-	-	6	27	29	-	2.26	165	-	
Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Helmshore	9 9	854	0.1	-4.4	-2.1	-	4.4	26	-10.6	24	1.1	-	-	.59	-	.16	20	8	6	-	31	-	-	-	0	28	31	-	1.74	-	-	
Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Burnley	9 9	655	-0.1	-4.9	-2.5	-	5.0	26	-11.1	12,24	-	4.6	-	.60	-	.18	3	11	7	8	31	0	0	0	0	29	29	1	1.07	151	-	
Nelson	9 9	540	0.3	-5.3	-2.5	-	5.6	26	-12.2	12,23	0.5	4.3	(1.33)	28	.36	3	(12)	(11)	-	-	-	-	-	-	8	28	31	-	1.28	-	S	
Rochdale	9 9	362	0.9	-4.4	-1.7	-	5.6	26	-12.2	23,24	-	-	-	.87	-	.31	23	11	8	11	10	0	0	0	6	24	29	5	1.05	-	-	
Cheshire West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bidston Obs'y.	9 9	198	1.1	-2.8	-0.9	-4.9	4.4	26,27	-8.3	23,25	-	-	-	.76	30	.20	15,29	5	5	-	-	-	-	-	11	19	27	-	1.99	127	-	
Winnington	9 9	65	1.4	-3.8	-1.2	-	5.6	26	-12.2	24	-	-	-	.79	27	.27	3	11	5	11	18	0	2	0	5	23	31	0	-	-	-	
Knutsford	9 9	212	1.1	-4.9	-1.9	-	6.1	26	-13.3	24	0.2	4.1	-	.88	-	.25	3	12	8	-	31	-	-	-	6	27	31	-	-	-	-	
Ringway	21-9	248	0.8	-3.6	-1.4	-4.8	5.0	26	-10.3	12	-	-	-	.44	15	.11	4	8	4	14	22	0	6	0	5	28	28	1	2.20	200	-	
Macclesfield	9 9	500	0.3	-3.9	-1.8	-4.6	3.3	26,27	-10.6	25	-	-	-	.78	23	.20	19	12	5	17	31	0	2	0	5	27	-	1	-	-	-	
7b NORTH WALES																																
Flint Rhyl	9 9	31	1.7	-3.7	-1.0	-5.8	5.6	26	-11.7	25	-	-	-	1.19	47	.36	29	7	4	9	24	0	1	0	6	23	24	0	2.09	129	-	
Prestatyn	9 9	12	1.8	-3.9	-1.1	-	5.6	26	-12.2	23,24,25	-	-	-	.82	30	.26	3	7	4	5	22	0	0	0	0	2	23	-	0	2.00	132	-
Hawarden Bridge	9 9	17	(0.9)	(-5.6)	(-2.3)	(-6.4)	6.1	26	-14.4	12	-	-	-	.97	38	.32	3	7	6	11	30	0	0	0	10	26	-	0	-	-	-	
Anglesey Valley	21-9	26	3.1	-2.2	0.5	-5.1	9.0	27	-8.0	23	-	-	-	.75	21	.31	29	9	5	9	1	0	0	1	22	28	0	3.00	160	-	-	
Denbigh Alwen	9 9	1100	-0.4	(-7.3)	(-3.9)	-	3.9	27,29	-16.1	23,24	-	-	-	1.29	-	.28	3	11	9	-	-	-	-	-	-	1	31	-	-	-	-	
Ruthin	9 9	248	0.9	-5.5	-2.3	-	4.4	26	-13.9	12,13	-	-	-	1.26	-	.31	3	6	6	-	31	-	-	-	-	1	29	-	-	-	-	
Loggerheads	9 9	690	-0.3	-7.3	-3.8	-	4.4	26	-18.3	12	1.3	4.3	-	1.73	-	.43	3,29	12	8	15	31	0	1	0	9	30	29	0	-	-	-	
Bwlchgwyn	9 9	1267	-1.6	-6.1	-3.9	-	8.9	6	-11.7	12	1.6	-	-	2.19	-	.51	29	(11)	(9)	13	31	0	0	0	10	30	31	0	-	-	-	
Wrexham	9 9	275	0.9	-5.8	-2.5	-	5.6	26	-15.0	12	0.6	4.1	-	.91	-	.25	3	9	5	13	31	0	2	0	5	26	31	0	-	-	-	
Caernarvon Bardsey Island	21-9	60	3.8	-0.5	1.7	-	7.5	26	-4.8	18	-	-	-	(.76)	-	.29	29	6	5	-	3	-	-	-	0	18	27	-	-	-	-	
Botwnnog	9 9	112	2.7	-2.5	0.1	-	7.8	27	-8.3	12	0.7	5.0	-	.84	-	.24	29	9	5	8	9	0	2	0	0	22	29	0	3.04	-	-	
Bryn Adda	9 9	275	2.7	-2.3	0.2	-	8.3	27	-6.7	12	-	-	-	1.03	-	.30	29	8	5	11	6	0	6	0	0	22	30	1	2.74	-	-	
Cwm Dyli	9 9	324	1.6	-3.6	-1.0	-	6.1	26,27	-10.6	23	1.4	-	-	(1.41)	-	.29	3	(12)	(9)	-	31	-	-	-	0	25	28	-	-	-	-	
Aber	9 9	60	2.9	-2.2	0.3	-5.4	8.9	27	-6.7	23,24	-	-	-	.76	17	.29	29	9	4	10	15	0	1	0	0	22	28	2	1.71	169 S	-	
Llandudno	9 9	13	2.1	-2.3	-0.1	-5.6	6.7	26	-8.3	12,13	-	-	-	1.02	35	.32	29	8	5	8	8	0	0	0	0	19	-	0	2.41	142	-	
Merioneth Llyn Swlwan	9 9	1656	-1.8																													



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER January 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%			in.	in.												in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.



[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS January 1963

[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS January 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										0	1	2	3	4	5	6-44 yd.	45-210 yd.	220-430 yd.	440-1,090 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
																										Speed in knots	0	1	2	3									4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS January 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)									VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations									NUMBER OF OBSERVATIONS										FORCE (0-12)																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-310 yd.	311-430 yd.	431-1,000 yd.	1,001-2,100 yd.	2,101-4,300 yd.	4,301-8 mi.	8-12 mi.	12-24 mi.	25 mi. or over	Beaufort Force																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT,

January

1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	58	20	11	2	28.7	31	48	28	11	2	22.8	31	77	20	14	2	36.2	31
Eskdalemuir Observatory ...	138	22	26	3	80.9	31	95	31	25	3	54.9	31	144	26	31	3	85.5	31
Cambridge ...	145	22	8	2	71.7	31	71	15 25	8	2	44.3	31	-	-	-	-	-	-
Kingsway ...	112	21	5	2	53.0	31	78	26	5	2	39.4	31	105	9	5	2	51.0	30
Kew Observatory ...	129	21	5	1	58.5	31	79	25	4	1	39.8	30	115	26	6	1	57.8	31
Aberporth ...	153	22	9	29	84.6	31	88	26	9	29	45.6	31	-	-	-	-	-	-

It has been decided to apply the non-linearity correction for the output of the cell in the daylight illuminometer directly to hourly values from 1st January 1963 - previously monthly mean values of the non-linearity correction have been used. The errors in previous published values are small - maximum and minimum values being subject to systematic errors of up to 1% too low (in June) for the maximum and up to 3% too high in the case of the minima (also in June).

TABLE VIII—NUMBER OF DAYS IN January 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								STATION	MINIMUM TEMPERATURE °C.							
	0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°		0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°
Lerwick Observatory ...	5	19	7	0	0	0	0	0	Edgbaston ...	17	14	0	0	0	0	0	0
Stornoway ...	0	21	13	0	0	0	0	0	Kew Observatory ...	13	17	1	0	0	0	0	0
Craibstone ...	8	23	0	0	0	0	0	0	Hastings ...	17	14	0	0	0	0	0	0
Rothsay ...	0	27	4	0	0	0	0	0	Southampton ...	12	13	1	0	0	0	0	0
Renfrew ...	3	24	4	0	0	0	0	0	Stonyhurst ...	10	20	1	0	0	0	0	0
Eskdalemuir Observatory ...	15	15	1	0	0	0	0	1	Bidston ...	8	23	0	0	0	0	0	0
Douglas ...	2	25	4	0	0	0	0	0	Valley ...	2	25	4	0	0	0	0	0
Cockle Park ...	5	26	0	0	0	0	0	0	Falmouth ...	2	22	7	0	0	0	0	0
Gorleston ...	9	22	0	0	0	0	0	1	Aldergrove ...	1	30	0	0	0	0	0	0
Cambridge ...	13	18	0	0	0	0	0	2	Armagh ...	1	30	0	0	0	0	0	0

TABLE III—ADDITIONS AND CORRECTIONS

TABLE III—ADDITIONS AND CORRECTIONS																													
MONTH	STATION	Terminal Hours of Observation Max. Min.	Height of Station above Mean Sea Level ft.	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per- centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 9° C.	Gale	Daily Mean
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	-0.01 in. (0.2mm.) or more	-0.04 in. (1.0mm.) or more										
								°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											
1961																													
January	Worthing	9 9	25									4.81	164																
February	Ventnor Park	9 9	443									2.98																	
"	Dungeness	21 9	10	8.4	5.0	6.7						2.04	129			17	11												
"	West Lavington	9 9	305									2.21	102																
April	Shanklin	9 9	180									3.96																	
May	Shaftesbury	9 9	680									1.10	51																
July	West Lavington	9 9	305									45																	
September	Ventnor Park	9 9	443									5.42	203																
November	Worthing	9 9	275									2.35																	
Annual	Worthing	9 9	25									27.29																	
"	Ventnor Park	9 9	443									35.95																	
"	Shanklin	9 9	180									37.27																	
"	Worthing	9 9	275									30.16																	
"	Shaftesbury	9 9	680									32.97																	
"	West Lavington	9 9	305									24.83																	
1962																													
March	Lyneham	21 9	476			2.5																				4.82			
April	Cheltenham	9 9	214																										
May	Loughgall	9 9	91	14.4		9.7																				9.54			
June	Thorney Island	21 9	10																							10.47	134		
"	Torquay	9 9	26																							3.34	80		
July	Armagh	9 9	205									2.05	62													3.59			
September	Trawscod	9 9	200																										
October	Poultton le Fylde	9 9	38	13.8		10.3	-	18.9	8			2.11					11	8								3.20			
"	Somerset Forest	9 9	142									2.09																	
"	Portrush	-	18																										
"	Belper	9 9	203	14.2	5.3	9.7	+0.1					.90	32				6	4							3				
"	Leckford	9 9	385									1.58	46				8	5							1				
"	Winchester	9 9	122																						3				
"	Long Sutton	9 9	512																										
November	Sidmouth	9 9	25	10.1	3.7	6.9	-1.3	13.3	1,2,3	-3.3	20	-	-	3.31	-	.62	20	15	11	-	0	-	-	0	7	7	-	1.82	-

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*

MO 739



Volume 80 Number 2

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### February 1963 — *The very cold winter continues*

Very cold air from the Continent affected the country for most of the month, though there were some interludes with northerly winds. Deep depressions which approached Western Ireland on the 4th and 14th were not successful in changing this regime for more than short periods, and the month ensured that, at least in Central England, the winter as a whole was the coldest since 1740.

The bitterly cold weather of January with almost continuous frost, severe at night, continued. High pressure from Scandinavia to southern Iceland on 1st and 2nd maintained north-easterly winds and frequent snow showers over most of the British Isles, but on the 4th a depression became slow moving off the west of Ireland and there were periods of more continuous snow as associated troughs crossed the country on the 4th and 5th.

Winds increased to gale force on the 5th and 6th and rain in the extreme south-west turned to snow as it spread north-east. Snowfall was frequently heavy and prolonged with considerable drifting. Exmoor had 36 hours of continuous snow which accumulated to a level depth of 22 in. at Princetown, and elsewhere there were drifts up to 20 ft deep isolating many farms and villages. In some areas it was the worst blizzard of the winter.

The second week was less cold. Day temperatures on the 8th were above freezing almost everywhere and reached 11°C at Scilly; there was a temporary thaw in Devon and Cornwall with some flooding. Overnight rain was followed by widespread fog which persisted all day in many places. A depression centred off our south-west coasts during the next two days gave outbreaks of heavy rain in Cornwall on the 9th, and further falls of sleet and snow, chiefly in southern England, on the 10th, but as the depression moved slowly eastward on the 11th-13th from the Bay of Biscay to Poland, the snow and sleet gradually died away and the generally dull weather was replaced by good periods of sunshine, especially in the west, where over 8 hours were recorded at a number of places on the 13th. Winds increased to gale force in the south-west on the 13th and 14th as a vigorous depression approached the west of Ireland. Rain reached south-west England late on the 13th, but as it spread north-east on the 14th the rain turned to snow; snowfall was considerable in the Pennines and Scotland, a further 7 in. being added at Kielder Castle, bringing the accumulated depth of level snow to 22 in.

The very cold weather spread back across the whole country during the third week as winds backed towards the east on the 16th. Heavy falls of snow continued in the extreme north-west of England and the Border Country on the 17th, but for the most part the week was mainly dry except for scattered showers in eastern districts. There was a period of more continuous snow, however, in southern England on the 19th and 20th as a depression off our south-west coasts moved eastwards into northern France.

The last week of the month was mainly fine and sunny with scattered snow showers until the 23rd, and day temperatures a little above freezing though night frosts were severe. Pressure rose steadily over the British Isles on the 21st and 22nd as an anticyclone from the Azores spread to north Germany. For most of the week the British Isles was under the influence of a continental south-easterly airstream associated with the north German anticyclone but on the last day of the month temperature over the country approached more normal values, this airstream having traversed lower latitudes.

**Pressure and Wind** — Mean pressure was above the 1921-50 average in the north but below in the south, the deviation at 9 hr ranging from +6.1 mb at Lerwick to -9.2 mb at Scilly. The month opened with north-easterly winds which backed towards north on the 3rd and fell light the next day, otherwise surface winds were mainly south-easterly apart from light variable or easterly winds on the

10th-13th and 16th-22nd. Wind reached gale force on 13 days in Scotland and on the 2nd, 5th, 6th, 7th, 10th, 13th, 14th, 18th, 19th and 28th (10 days) in England and Wales. Gales were widespread in the west and north on the 5th and 6th; gusts of 71 and 72 kt were recorded at Rannoch and Point of Ayre respectively on the 6th and one of 71 kt at Stornoway on the 26th.

**Temperature** — Mean temperature was considerably below the 1931-60 average the deficit being -4.5°C in England and Wales, -3.0°C in Scotland, and -3.5°C in Northern Ireland. Over England and Wales as a whole and at many other places it was the coldest February since 1947. Maximum temperatures were nearly 5½°C below average in eastern England. The coldest days were mainly during the 2nd-6th or around the 24th. At Ross-on-Wye there were only two colder Februarys (1895 and 1947) since records began in 1877.

Extremes included: (England and Wales) 12.8°C at Aber on the 27th and at Bryn Adda on the 28th, -18.3°C at Corbridge on the 25th and at Kielder Castle on the 26th; (Scotland) 12.8°C at several places in Ross and Cromarty on the 27th and 28th, -18.9°C at Braemar on the 18th and at Lauder on the 26th; (Northern Ireland) 8.9°C at Derrynoyd Forest, at Baronscourt Forest and at Roscor on the 27th, -9.4°C at Knockmany Forest on the 18th.

**Precipitation** — The general rainfall expressed as a percentage of the 1916-50 averages was 51 for England and Wales, 37 for Scotland and 84 for Northern Ireland. In Scotland precipitation was mostly in the form of snow. In east and south-east districts amounts were above the average, but in the west amounts were less than 25 per cent of the average and in some places less than 10 per cent. In England and Wales rainfall was more than the average in the south-west, the Tyne Valley and Hereford, but less than 25 per cent of the average in Lancashire and central northern England, in North Wales, Anglesey and the Cheshire Plain and in the Thames Valley to the west of London.

Thunder was heard on the 6th in South Wales, Devon and Cornwall, and on the 15th at St. Mawgan.

Snow or sleet was reported from one place or another every day except the last four and ground was snow-covered over much of the country throughout the month. During the first week level snow lay more than 1 ft deep in parts of north-east and south-west England and 6-9 in. in many parts of central and southern England. Tredegar, which was isolated for many days reported a level snow depth of 65 in. on the 7th and 8th, and Spadeadam in the extreme north of England was under more than 2 ft of level snow until the 9th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 111 over England and Wales, 134 over Scotland and 120 over Northern Ireland. In Scotland amounts were above the average in all districts, Prestwick being the sunniest place with 127 hours. In England and Wales it was sunniest in the north-west, sunshine being slightly below average in parts of north-east England and the Midlands. At Stonyhurst with 95 hours it was the sunniest February since records began, the previous best was 89 hr in 1887.

**Fog** — In Scotland fog was reported at one place or another on 24 days and in England and Wales every day of the month. Many places had early fog on 6-9 mornings or more; Pontefract and Regents Park were affected on 17 and 14 mornings respectively. Fog persisted throughout the day at many places on the 8th, 9th and 22nd-25th.

**Miscellaneous Phenomena.** — In Scotland the aurora was visible on 8 nights.



TABLE I—DISTRICT VALUES— February 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	%		%
Eastern	12.8	-15.5	-1.9	-2.4	-2.1	—	—	22	-11	138
1 SCOTLAND, E.	10.8	-18.9	-3.4	-3.6	-3.4	—	—	65	-3	120
2 ENGLAND, N.E.	7.8	-18.3	-4.8	-4.4	-4.6	-2.9	-2.0	89	-1	93
3 ENGLAND, E.	6.8	-15.0	-5.4	-4.4	-4.9	-3.7	-2.8	45	-1	103
4 MIDLAND COUNTIES	8.3	-12.8	-5.0	-4.4	-4.7	-3.4	-2.1	40	-5	95

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	%		%
Western	10.0	-13.9	-5.0	-3.8	-4.4	-4.1	-2.9	41	-3	116
6 SCOTLAND, W.	10.0	-15.0	-3.2	-4.1	-3.6	-2.9	-1.3	32	-10	146
7 ENGLAND, N.W. (and N. Wales)	12.8	-15.6	-4.1	-4.3	-4.2	(-3.1)	-1.9	20	-8	155
8 ENGLAND, S.W. (and S. Wales)	11.7	-15.6	-4.8	-4.3	-4.5	-4.4	-3.2	72	-4	101
NORTHERN IRELAND	8.9	-9.4	-3.3	-3.6	-3.5	-	-	84	-9	120

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— February 1963 (1914)

DISTRICT, COUNTY AND PLACE	Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Highest Velocities				
	Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Mean Hourly Wind Speed	Highest Hourly Wind			Highest Gust		
	ft.	ft.	ft.	Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	knots	Veer from N.	Speed	Hour ended at	Speed	Day and Time	
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		°	knots	day hr.	knots	day	h.m.
SCOTLAND																		
0 Zetland	Lerwick Observatory	304	33	33	-	0	5	30	316	275	51	0	11.6	180	31	26	19	45
Orkney	Kirkwall	134	50	33	-	0	10	94	240	268	70	0	12.0	120	28	6	04	40
Caithness	Dounreay	110	39	30	6, 7, 14, 26	13	10	98	221	325	6	9	13.3	140	39	14	13	55
Ross & Cromarty	Stornoway (Coastguard)	120	40	36	5-7, 25-27	46	15	182	191	120	133	0	18.3	190	48	26	19	71
Inverness	Duirinish	125	65	55	6, 26	4	6	39	150	358	121	0	8.7	080	37	6	18	54
1 Moray	Benbecula	69	51	35	6, 13, 14, 26, 28	33	12	133	227	174	105	0	14.2	150	44	26	15	63
Aberdeen	Lossiemouth	101	80	60	-	0	6	16	204	336	116	0	8.6	120	27	7	03	50
Angus	Dyce	225	40	40	-	0	1	1	162	310	199	0	7.0	120	22	6	16	35
Perth	Auchterhouse	822	62	50	-	0	1	18	122	312	156	64	7.7	080	28	6	18	44
Fife	Bell Rock Lighthouse	128	131	124	5, 6, 7, 14, 15	47	15	158	296	139	32	0	17.6	(140)	45	6	19	54
Midlothian	Rannoch	1006	56	57	6, 7, 14	10	9	81	170	126	262	23	9.2	100	44	7	05	71
6a Argyll	Leuchars	78	40	40	6	3	6	76	155	344	94	0	10.1	110	35	6	19	49
Bute	Turnhouse	137	40	33	-	0	4	17	152	308	195	0	7.2	090	28	6	16	41
Renfrew	Edinburgh, Blackford Hill	496	50	34	-	0	3	26	217	272	107	50	9.2	110	33	6	13	56
Lanark	Tiree	89	60	47	5-7, 13-15	102	17	184	201	87	98	0	19.4	110	49	6	09	68
Ayr	Millport	50	34	34	6	17	6	58	167	236	194	0	10.0	080	44	6	12	65
Dumfries	Paisley	188	81	31	-	0	0	0	285	289	0	0	5.4	090	20	6	15	40
Wigtown	Renfrew	71	41	39	-	0	2	26	159	309	178	0	7.4	100	31	6	17	48
ENGLAND AND WALES	Lowther Hill	2412	43	33	5, 6, 15	33	14	110	362	130	37	0	16.3	130	63	6	12	81
6b Isle of Man	Prestwick Airport	68	33	33	-	0	4	35	155	332	150	0	8.4	110	32	6	19	49
2 Durham	Eskdalemuir Observatory	825	50	35	-	0	3	10	108	225	329	0	5.5	120	25	6	03	44
Lincoln	West Freugh	83	33	33	5, 6	19	7	63	248	240	102	0	11.4	120	41	6	11	65
3 Norfolk	Ronaldsway	119	64	39	5, 6, 7, 10, 14, 16	57	16	170	283	149	13	0	18.4	110	53	6	10	67
Suffolk	Point of Ayre	70	40	35	5, 6, 14	26	14	115	340	172	19	0	15.6	140	43	6	12	72
Bedford	Durham	389	53	33	-	0	0	0	79	301	292	0	4.9	130	17	6	02	32
Hertford	South Shields	73	57	44	-	0	5	34	226	313	99	0	9.9	090	32	6	10	42
Essex	Cranwell	288	47	47	-	0	2	16	143	373	140	0	7.4	120	28	6	13	34
4 Yorks, W.R.	Gorleston	45	33	33	-	0	4	24	319	300	29	0	10.9	140	24	6	11	36
Warwick	Mildenhall	98	83	60	-	0	0	0	68	395	209	0	5.6	130	19	6	10	33
Stafford	Cardington	226	133	133	-	0	1	3	264	333	72	0	9.2	110	24	6	11	34
Gloucester	Garston	307	50	33	-	0	0	0	10	518	144	0	5.1	110	14	9	23	26
5 London	Rothamsted	461	41	33	-	0	0	0	46	485	141	0	5.7	030	15	2	13	30
Middlesex	Stansted	358	31	31	-	0	0	0	237	365	70	0	8.6	060	20	2	13	31
Surrey	Coryton	66	57	48	-	0	0	0	35	469	154	14	5.9	080	17	2	11	32
Kent	Shoeburyness	118	106	91	-	0	7	40	352	240	40	0	11.7	080	32	2	10	42
Hampshire	Sheffield	533	83	35	-	0	0	0	2	320	350	0	3.6	350	12	1	01	28
Wiltshire	Edgbaston	643	118	73	-	0	0	0	158	435	79	0	8.1	090	19	10	03	30
Berkshire	Elmdon	362	30	31	-	0	0	0	155	411	106	0	7.7	120	18	6	12	33
Westmorland	Keele	706	50	33	-	0	0	0	210	312	150	0	7.9	120	20	6	03	44
Lancashire	Avonmouth	92	61	33	-	0	3	10	203	258	134	67	8.5	(130)	25	14	(12)	(39)
Cheshire	Kingsway	208	143	41	-	0	0	0	88	509	75	0	7.5	080	18	9	23	34
7a Cumberland	London (Heathrow) Airport	115	33	33	-	0	1	1	176	400	95	0	8.0	060	22	2	12	36
Westmorland	Hampton	139	101	100	-	0	0	0	67	460	145	0	6.3	070	18	2	11	39
Lancashire	Kew Observatory	92	75	50	-	0	0	0	141	429	102	0	7.7	080	21	2	11	34
Cheshire	Gatwick	232	38	33	-	0	0	0	78	399	195	0	6.0	060	20	2	12	35
7b Anglesey	Isle of Grain	48	40	33	-	0	1	6	140	396	130	0	7.3	070	25	2	09	35
Glamorgan	Dover	68	38	62	-	0	1	14	214	376	68	0	9.0	040	29	2	12	38
Devon	Thorney Island	75	65	42	-	0	0	0	192	356	124	0	7.9	050	20	2	14	35
Cornwall	Hurn	86	53	46	-	0	0	0	237	343	92	0	8.9	050	21	2	15	37
NORTHERN IRELAND	Calshot	50	41	33	-	0	5	28	400	196	48	0	11.9	120	28	6	06	35
Londonderry	S. Farnborough	313	69	35	-	0	0	0	49	414	209	0	5.3	070	16	2	12	37
Antrim	Abingdon	295	40	40	-	0	2	2	256	280	134	0	8.6	130	23	6	14	34
CHANNEL ISLES	Larkhill	491	51	36	-	0	1	7	137	350	178	0	6.8	050	24	2	15	39
Jersey Airport	Boscombe Down	425	55	55	-	0	3	5	189	330	148	0	8.2	070	23	2	14	43
	Porton	406	44	44	-	0	1	5	210	286	171	0	7.9	050	24	2	16	39
	Carlisle	137	42	30	-	0	2	12	150	267	243	0	6.6	110	25	5	22	39
	Sellafield	83	39	35	-	0	7	55	239	329	47	0	11.4	090	35	6	09	53
	Spadeadam	959	51	40	-	0	7	41	284	227	120	0	10.8	100	33	6	16	49
	Moor House	1960	50	45	6, 25	3	11	102	269	187	102	9	12.6	220	34	25	08	46
	Southport	59	41	33	-	0	1	11	174	302	137	48	8.3	130	27	6	06	54
	Fleetwood	112	50	31	-	0	2	12	227	348	85	0	8.9	130	24	5	19	39
	Speke	84	41	33	-	0	1	11	121	384	162	4	6.8	130	22	6	12	50
	Manchester W/Centre	268	147	55	-	0	1	1	287	282	74	3	-	(110)	30	6	01	(56)
	Bidston Observatory	262	64	39	-	0	3	26	287	282	74	3	-	110	26	6	12	43
	Ringway	261	33	33	-	0	3	19	215	300	138	0	8.5	110	26	6	12	43
	Valley	76	50	40	-	0	5	39	200	251	182	0	8.7	130	32	6	02	50
	Aberporth	48																

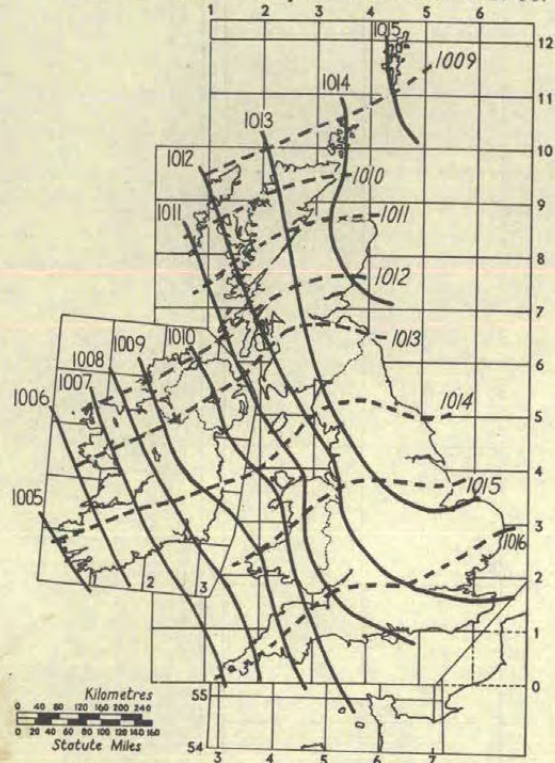


# MONTHLY WEATHER CHARTS

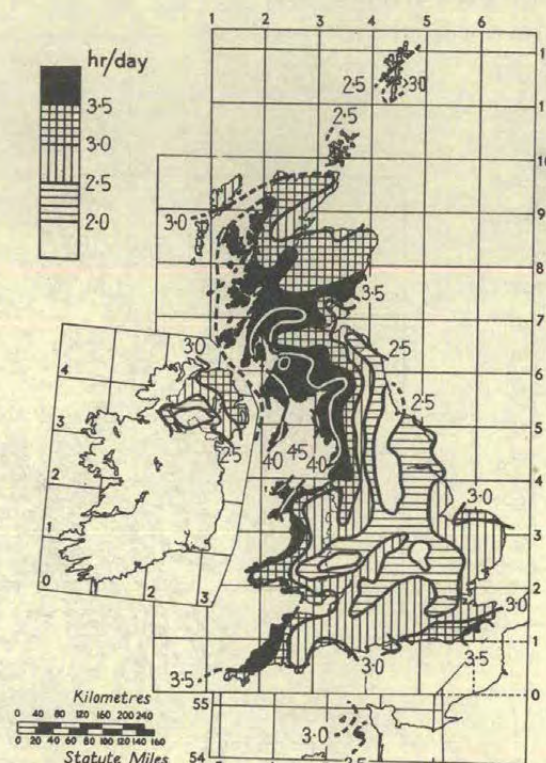
## FEBRUARY 1963

### MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

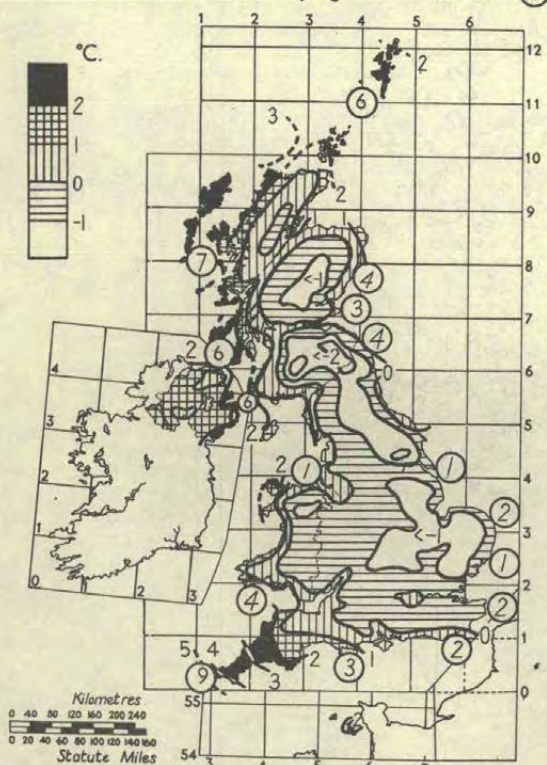


### BRIGHT SUNSHINE



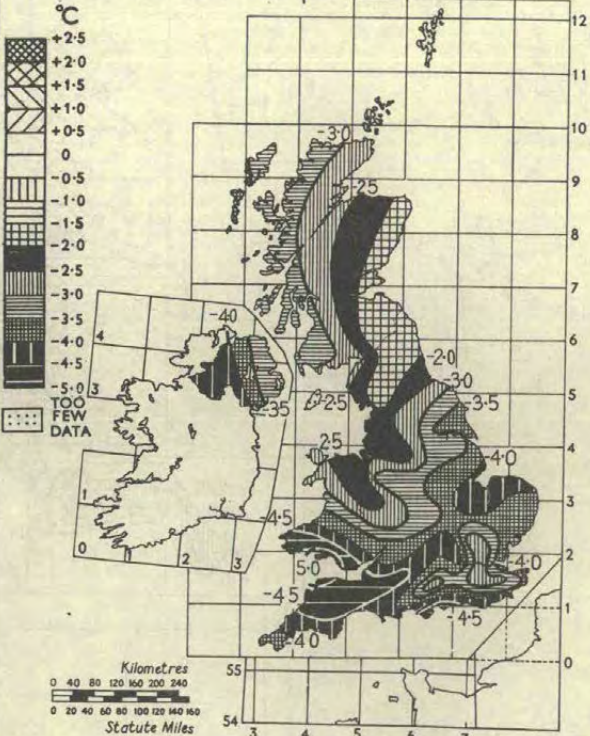
### MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus ⑩



### ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE

Key for Abnormal Anomaly of 1 ft. Mean Earth Temps.





# RAINFALL

FEBRUARY 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

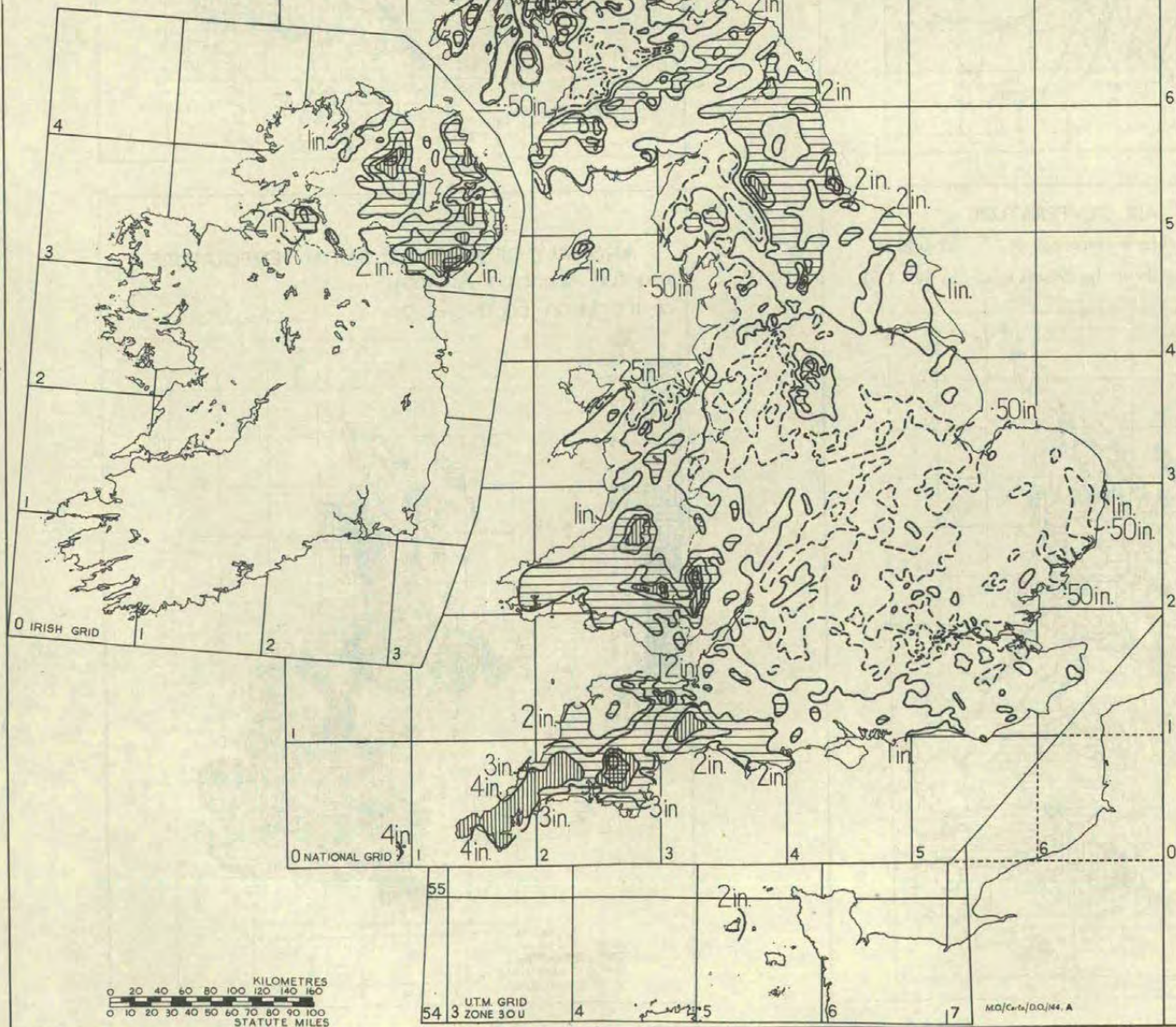
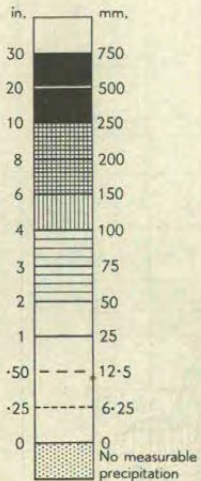




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER February 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE						
			Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n -0.1in. (0.2mm.) or more -0.01in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Alt. Frost + or below 0°	Gale	Daily Mean	Percentage of Average				
			A	B			Maximum	Date	Minimum	Date					Amount	Date															
			Max.	Min.			Max.	Min.	Max.	Min.					Max.	Min.															
0 SCOTLAND, N.																															
Zetland	Hamnavoe	9 9	70	4.3	1.0	2.7	-	6.7	24, 27	-2.2	2	-	-	1.49	-	.77	9	12	8	5	6	5	1	0	0	9	-	2	3.06	-	
	Lerwick Obs'y. §§	21-9	269	3.5	0.1	1.8	-1.1	6.4	24	-4.1	2	-	-	1.05	32	.44	9	11	7	16	19	0	11	0	0	16	22	1	2.97	165	
	Baltasound	9 9	78	3.9	-0.5	1.7	-	7.2	23, 24	-4.4	16	2.6	-	1.52	39	.48	22	16	11	16	9	2	0	0	0	15	-	1	2.24	-	
Orkney	Sule Skerry	9 9	43	4.9	2.1	3.5	-	10.0	28	-1.5	2	-	-	1.28	-	.27	21	16	8	7	0	0	1	0	0	1	6	8	-	-	
	Stenness	9 9	75	3.9	-1.1	1.4	-	6.7	23	-5.6	17	1.7	-	1.10	-	.58	7	14	6	11	0	0	2	0	0	14	25	3	2.40	-	
	Costa	9 9	115	4.1	0.2	2.1	-	6.7	23	-2.8	2, 25	-	-	.92	-	.26	7	16	6	12	0	0	12	0	0	11	19	2	2.87	-	
Caithness	Kirkwall	21-9	84	4.1	-0.2	1.9	-	6.5	23, 24	-3.9	2	-	-	.86	27	.29	7	12	6	17	2	6	0	0	0	15	21	0	2.65	120	
	Dounreay	9 9	70	4.1	-2.2	0.9	-	6.1	22, 26, 28	(-7.8)	18	-	-	1.25	-	.53	7	13	8	4	5	0	1	0	0	20	24	4	-	-	
Sutherland	Wick	21-9	119	4.0	-0.7	1.7	-1.8	6.9	23	-5.5	17	-	-	.82	41	.21	7	13	6	16	3	0	7	0	0	16	21	0	2.99	114	
	Cape Wrath	21-9	367	4.4	-0.3	2.1	-2.2	10.5	28	-5.2	17	-	-	.47	14	.15	19	9	4	9	0	0	0	0	0	19	26	5	-	-	
	Achany	9 9	280	3.2	-5.1	-0.9	-	7.8	22, 26, 28	-11.1	13, 18, 25	0.6	3.3	.71	21	.40	7	10	5	15	28	5	1	0	1	23	27	0	-	-	
	Strathay	9 9	120	3.6	-2.7	0.5	-	6.1	26, 27, 28	-7.8	18	-	-	1.75	55	.57	7	15	10	15	7	0	5	0	0	20	-	0	2.55	127 S	
Ross & Cromarty	Stornoway §§	21-9	11	5.2	0.0	2.6	-1.8	9.6	28	-6.2	17	-	-	.40	15	.10	17	10	4	12	0	0	1	0	0	12	22	4	2.71	124	
	Balmacara	9 9	2	5.7	-1.4	2.1	-	11.1	27, 28	-5.6	2	-	-	.12	-	.08	20	2	-	-	-	-	-	-	-	-	-	-	-	-	
	Pöolewe	9 9	20	5.3	-1.6	1.9	-	12.8	28	-6.1	17	-	-	.48	-	.33	19	2	2	3	-	0	0	0	0	21	26	2	3.71	-	
	Inverpolly	9 9	45	4.9	-2.7	1.1	-	12.8	26	-7.8	13	1.4	-	.35	-	.20	20	4	4	5	6	1	0	0	0	-	19	26	5	-	-
	Achnashellach	9 9	220	5.0	-4.4	0.3	-2.8	12.8	27, 28	-8.3	19	-	-	.16	2	.16	20	1	1	2	1	0	0	0	0	0	24	-	2	-	-
	Kinlochewe	9 9	76	4.7	-3.9	0.4	-	12.8	27	-7.2	14, 17, 20	0.8	-	.40	-	.31	20	2	2	9	6	0	0	0	0	1	24	27	0	3.35	- S
	Blackbridge	9 9	690	3.2	-6.3	-1.5	-	9.4	28	-11.1	13, 25	-	-	.08	-	.03	7	5	0	-	-	-	-	-	-	0	26	28	-	2.72	-
	Fortrose	9 9	15	3.8	-1.3	1.3	-	9.4	28	-4.4	2	-	-	.29	17	.08	13	7	4	-	9	-	-	-	-	1	20	-	-	2.93	118
Inverness	Tarbatness	21-9	60	3.5	-0.6	1.5	-	7.5	23	-5.5	13, 19	-	-	.56	-	.17	8	7	5	8	3	0	0	0	0	1	13	-	0	-	-
	Benbecula	21-9	19	4.9	-0.5	2.2	-	7.2	27	-6.2	18	-	-	.71	24	.40	5	7	3	8	1	0	1	0	0	0	16	22	5	3.29	-
	Isle of Rhum	9 9	15	5.2	-0.9	2.1	-	8.3	27, 28	-6.7	19	1.1	4.5	.35	-	.08	7	7	6	3	5	0	2	0	0	0	18	28	7	-	-
	Prabost	9 9	220	4.5	-1.3	1.6	-	10.6	28	-4.4	17, 18, 19	-	-	.35	-	.13	2	5	5	4	6	0	6	0	0	20	27	5	3.83	-	
	Duntulm	9 9	294	4.7	-0.2	2.3	-	11.1	28	-3.9	3	-	-	.19	5	.08	1	6	2	3	0	5	0	0	0	13	25	4	3.59	165	
	Onich	9 9	48	4.4	-2.7	0.9	-3.0	10.0	28	-7.2	13, 24	-	-	.25	4	.16	5	2	2	4	3	0	0	0	0	0	20	27	4	3.39	167 S
	Fort William	9 9	27	5.2	-4.2	0.5	-	11.7	26	-10.0	24	0.1	2.0	Tr.	-	Tr.	1, 20	0	0	4	2	0	1	0	0	0	20	26	2	3.54	- S
	Fort Augustus	9 9	70	4.4	-3.4	0.5	-2.7	8.9	28	-9.4	19	-	-	.12	-	.07	11	4	1	7	3	0	0	0	0	0	22	-	3	3.77	- S
	Cannich	9 9	350	3.6	-7.0	-1.7	-	9.4	28	-11.7	2, 4, 13	-	-	(.04)	1	(.04)	13	1	1	2	25	0	0	0	0	0	24	28	0	-	-
	Inverness	9 9	13	4.3	-2.6	0.9	-	9.4	28	-6.1	13, 19	-	-	.21	-	.12	11	3	2	5	5	0	0	0	0	0	23	28	0	3.20	-
	Achnagoichan	9 9	1000	1.6	-5.9	-2.1	-	6.7	27	-12.8	19	1.3	-	(.76)	-	(.24)	3	7	7	-	-	-	-	-	-	27	28	-	-	-	
	Glenmore Lodge	9 9	1120	1.7	-8.1	-3.2	-	7.1	28	-15.5	19, 20	-	-	.80	-	.24	2	9	8	15	28	0	0	0	3	28	28	1	3.05	- S	
1 SCOTLAND, E.																															
Nairn	Nairn	9 9	20	3.7	-3.5	0.1	-3.5	10.0	28	-9.4	13	-	-	.65	43	.25	11	8	7	7	11	0	0	0	1	23	28	0	3.36	131	
Moray	Grantown-on-Spey	9 9	720																												
	Forres	9 9	155	3.4	-3.1	0.1	-	10.0	28	-8.3	19	0.1	2.6	.41	29	.17	11	9	3	10	16	2	0	0	0	1	24	26	0	3.08	116
	Kinloss	21-9	15	3.6	-2.7	0.5	-	10.8	28	-9.9	13	1.1	-	.62	-	.18	17	11	4	17	10	0	11	0	0	0	23	26	0	2.95	-
	Elgin	9 9	92	3.7	-2.4	0.7	-	8.9	28	-7.2	5	-	-	.80	-	.24	11	5	10	10	0	0	0	0	0	0	21	26	0	3.08	-
	Lossiemouth	9 9	21	3.8	-3.7	0.1	-	8.9	28	-10.6	13	-	-	.83	-	.16	4	15	9	17	10	0	5	0	1	23	27	0	-	-	
	Gordon Castle	9 9	104	3.3	-2.6	0.3	-3.2	7.2	26	-9.4	5	-	-	.61	33	.16	3	11	6	10	26	1	0	0	-	21	-	0	2.73	110	
Banff	Banff	9 9	80	3.1	-2.4	0.3	-	6.1	22	-6.7	13	-	-	1.51	-	.46	7	21	11	14	5	4	0	0	0	1	23	-	0	2.89	-
Aberdeen	Braemar	9 9	1113	0.7	-8.3	-3.8	-4.8	6.1	28	-18.9	13	-	-	1.57	58	.50	5	16	11	-	28	-	-	-	-	0	28	-	-	-	- S
	Balmoral	9 9	927	0.6	-6.9	-3.1	-4.3	6.1	27	-17.2	13	-	-	1.70	77	.42	5	18	10	18	28	0	0	0	0	-	28	28	0	-	-
	Dinnnet	9 9	580	1.9	-5.6	-1.9	-	5.0	22, 25, 27	-13.9	13	0.9	-	1.89	-	.96	7	12	9	9	28	0	0	0	0	0	26	28	0	-	-
	Huntly	9 9	405	2.3	-4.4	-1.1	-	6.2	22	-13.4	24	-	-	1.92	-	.72	7	20	11	16	28	2	0	0	0	2	26	28	0	-	-
	Fyvie Castle	9 9	218	2.8	-5.9	-1.5	-	5.6	22	-13.9	24	-	-	2.48	-	(.86)	7	15	13	7	28	2	0	0	-	-	22	28	0	2.81	- S
	Craibstone §§	9 9	300	2.1	-2.5	-0.2	-3.1	5.0	22	-6.7	26	1.0	2.6	1.73	77	.66	7	17	10	16	28	0	7	0	0	0	23	25	2	3.38	119
	Dyce	21-9	190	2.4	-2.9	-0.3	-3.2	7.0	22	-8.5	23	-	-	1.59																	



DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE		
				Means of		Mean Temperature of Air and Soil	Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Frost	Grass min. below 0°	Gale	Daily Mean	Percentage of Average
				A	B			Maximum	Date	Minimum	Date					Amount	Date	0.1 in. (2.5 mm.) or more	0.1 in. (2.5 mm.) or more											
				Max.	Min.			Max.	Date	Min.	Date					in.	%	in.	in.											
1 SCOTLAND, E.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%
Midlothian	Balerno ...	9 9	700	1.8	-6.1	-2.1	-	6.1	28	-11.7	3.19	-	-	(1.10)	-	(.24)	1.14	12	7	9	-	0	0	0	1	28	28	0	3.40	137
	Turnhouse ...	21-9	114	3.5	-4.7	-0.6	-4.0	9.4	27,28	-14.1	3	-	-	1.07	65	.22	7	10	7	16	16	0	7	0	1	25	28	0	3.17	-
	Edinburgh—E. Craigs	9 9	200	2.8	-4.7	-0.9	-	8.9	27	-11.7	3	-	-	1.35	-	.41	1	10	8	8	22	3	0	2	23	28	1	3.28	-	
	Davidson's Mains	9 9	200	2.9	-4.1	-0.6	-4.0	8.9	27	-9.4	3	0.5	-	1.20	-	.29	1	10	8	13	28	0	0	2	25	28	0	3.13	-	
	Penicuik ...	9 9	620	1.8	-6.1	-2.1	-	7.2	27	-12.8	26	0.6	-	1.05	-	.28	7	12	6	17	28	0	0	2	28	28	0	3.02	-	
	Bush House ...	9 9	605	1.9	-5.6	-1.9	-	7.2	27,28	-11.7	26	0.3	2.2	.93	-	.35	1	7	5	9	28	0	0	1	27	28	0	3.11	-	
	Edinburgh—																													
	Blackford Hill §	9 9	441	2.6	-2.9	-0.1	-3.6	7.8	27	-6.7	3	-	-	.55	33	.21	1	11	4	15	25	0	1	0	1	27	28	0	3.09	115
	Liberton ...	9 9	200	2.4	-3.6	-0.6	-4.3	7.2	27	-8.3	26	-	-	.52	-	.17	7	11	3	12	28	0	0	0	1	22	27	0	2.75	-
	Royal Bot. Gdns.	9 9	74	3.1	-4.1	-0.5	-4.3	8.9	27	-10.6	19	0.4	-	.71	-	.19	1	11	5	9	25	0	2	0	6	22	28	0	2.78	120
E. Lothian	Haddington ...	9 9	162	2.8	-5.3	-1.3	-	8.3	27	-13.9	3	-	-	.94	-	.34	1	15	7	12	28	3	0	3	3	25	28	0	2.43	-
	North Berwick ...	9 9	51	3.6	-2.1	0.7	-	9.4	27	-6.1	3.25	-	-	.95	64	.16	7	14	9	9	12	0	0	0	0	23	-	0	2.73	-
	Dunbar ...	9 9	75	3.2	-2.3	0.5	-	7.2	27	-7.2	25	-	-	1.10	-	.36	7	12	8	15	7	0	0	0	0	20	27	0	2.93	104
Berwick	Merton ...	9 9	225	2.1	-7.7	-2.8	-	6.7	26	-16.7	26	-	-	.72	-	.20	7	14	5	-	-	-	-	-	-	27	27	-	2.58	-
	Lauder ...	9 9	600	1.2	-8.4	-3.6	-	5.0	27	-18.9	26	-	-	2.87	-	.93	14	11	9	21	28	0	0	0	5	28	28	0	3.04	-
	Marchmont §	9 9	498	1.7	-4.4	-1.3	-4.1	5.6	27	-10.0	25	-	-	1.85	85	.67	14	14	9	14	28	0	0	0	1	26	-	1	2.35	109
Peebles	St. Abb's Head ...	9 9	245	2.3	-1.9	0.2	-																							



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER February 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE			
					Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n	Number of days								Daily Mean	Percentage of Average		
					A Max.	B Min.	Mean of A and B	Difference	Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%	Amount	Date	0.1 in. (0.2 mm.) or more	0.01 in. (0.1 mm.) or more	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1° C.	Grass min. below 0° C.	Gale	hr	%
					ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													
2 ENGLAND, N.E.—cont.			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%		
Northum-berland cont.	Haydon Bridge	9 9	270																											
	Corbridge	9 9	160	2.2	-6.4	-2.1	-	4.4	17,23,26	-18.3	25	-	-	1.06	-	.26	7	12	8	17	28	0	0	0	5	28	28	0	-	
Durham	Berwick-on-Tweed	9 9	76	2.6	-3.3	-0.3	-4.1	4.4	9	-10.6	26	-	-	1.32	89	.29	7	18	12	14	10	0	6	0	1	22	26	0	2.73	
	Ponteland	9 9	220																									100		
	Cockle Park	9 9	326	1.6	-4.4	-1.4	-4.4	5.0	21	-12.8	25	0.8	-	2.17	114	.46	7	17	13	16	28	0	3	0	3	28	28	1	2.08	
	Acklington	21-9	138	1.6	-4.1	-1.3	-	4.0	23	-12.3	24,26	-	-	3.34	-	.89	7	17	13	19	27	5	6	0	3	28	27	1	2.15	
	Tynemouth	21-9	95	2.0	-1.7	0.1	-4.3	4.1	17	-7.4	25	-	-	2.96	179	.70	7	18	16	20	11	5	0	0	4	21	25	1	1.93	
	Chopwellwood	9 9	446	1.6	-3.9	-1.1	-4.2	5.0	13	-10.6	24	-	-	2.90	146	.52	14	16	12	19	28	0	0	0	0	28	28	0	-	
	Ushaw College	9 9	594	1.4	-4.2	-1.4	-4.4	5.0	8	-10.0	25	-	-	3.07	148	.70	7	13	11	17	28	0	3	0	16	28	-	0	-	
	Houghall	9 9	123	1.6	-4.8	-1.6	-4.8	3.9	13	-13.3	25	-	-	2.43	130	.46	14	17	13	16	28	0	3	0	3	28	28	0	1.89	
	Durham	9 9	336	1.5	-3.9	-1.2	-4.5	5.0	8	-10.0	25	1.1	3.6	2.82	158	.55	7	18	13	-	-	-	-	-	-	28	28	-	2.14	
	Gateshead	9 9	509	1.3	-3.2	-0.9	-	5.0	17	-7.8	25,26	-	-	2.17	-	.43	3	17	9	-	-	-	-	-	7	27	28	-	1.84	
Yorks., N. Riding	Middleton St. George	21-9	115	1.4	-3.7	-1.1	-	4.8	8	-9.6	28	-	-	1.23	-	.43	7	15	7	20	28	0	11	0	7	27	28	0	1.67	
	West Hartlepool	9 9	30	2.4	-2.0	0.2	-	5.0	8,26	-8.9	25	-	-	2.16	-	.73	14	17	11	13	28	3	0	0	6	22	26	0	1.94	
	Dishforth	21-9	105	1.4	-4.1	-1.3	-	5.3	8	-10.9	25	-	-	1.36	78	.43	14	15	6	20	27	0	6	0	9	27	28	0	2.07	
	Thirsk	9 9	111	1.7	-5.1	-1.7	-	5.6	13	-13.9	25	-	-	1.10	-	.32	7	10	8	17	27	0	0	0	8	28	28	0	-	
	York	9 9	57	1.9	-3.2	-0.7	-4.7	5.0	8,28	-10.0	25	0.2	2.8	1.21	72	.40	14	12	5	13	28	0	2	0	7	28	-	0	2.11	
	Ampleforth	9 9	313	1.1	-3.9	-1.4	-4.5	3.3	8,13,22	-10.0	25,26	-	-	1.37	64	.30	14	14	8	-	-	-	-	-	-	7	28	28	-	-
	Redcar	9 9	25	2.9	-1.8	0.5	-	7.8	28	-8.3	5	-	-	1.17	75	.18	21	21	12	16	14	0	0	0	3	23	-	0	2.32	
	Whitby	9 9	135	2.3	-1.7	0.3	-	5.0	28	6.1	5	-	-	1.19	62	.23	7	15	12	16	-	1	1	0	1	20	-	0	2.46	
	Scarborough	9 9	118	2.4	-1.9	0.3	-4.2	5.6	22	-6.7	5,25	1.2	3.8	1.40	78	.32	2	12	9	12	12	1	0	0	2	22	28	1	2.42	
	Silpho Moor	9 9	665	0.1	-3.9	-1.9	-	3.3	8	-7.8	5	0.4	-	2.12	-	.41	14	16	12	13	28	0	2	0	9	28	28	0	2.46	
Yorks., E. Riding	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Whitby C/Guard	21-9	200	1.8	-1.8	0.0	-	5.0	28	-6.7	5	-	-	.83	-	.16	7	15	9	14	14	0	2	0	2	25	28	1	-	
	High Mowthorpe	9 9	574	0.2	-5.0	-2.4	-	2.8	4,13,22	-10.0	5	0.5	-	1.50	-	.46	1	12	12	18	28	0	1	0	7	28	28	1	2.24	
	Hull	9 9	8	2.0	-3.8	-0.9	-5.1	5.6	26	-10.0	26	0.4	3.6	1.30	71	.38	14	12	8	11	28	0	0	0	2	28	28	0	2.23	
	Leconfield	21-9	24	1.1	-4.8	-1.9	-	3.8	8	-14.0	25	-	-	1.21	-	.28	14	11	9	19	28	0	14	0	7	27	28	0	2.21	
	Filey	9 9	122	1.7	-3.3	-0.8	-	3.9	22	-10.0	25	-	-	1.09	-	.29	7	13	7	16	28	0	4	0	2	27	27	0	2.08	
	Bridlington	9 9	157	1.3	-3.3	-1.0	-	3.3	28	-10.6	25	-	-	1.31	-	.30	7	13	10	15	18	0	12	0	4	28	28	2	2.55	
	Spurn Head	21-9	29	1.2	-1.8	-0.3	-4.3	3.5	13	-5.0	4	-	-	.93	-	.15	7	14	10	17	16	0	1	0	4	27	-	0	2.52	
	Gainsborough	9 9	110	1.4	-4.4	-1.5	-	3.9	8,10,28	-13.3	5	-	-	.43	-	.17	7	14	3	-	-	-	-	-	-	7	28	-	-	
	Navenby	9 9	60	1.5	-4.5	-1.5	-	5.0	13,26	-11.1	5	-	-	.53	-	.11	20	13	7	18	28	0	0	0	5	28	28	0	-	
Lincoln	Waddington	21-9	224	0.8	-4.0	-1.6	-5.2	4.4	28	-11.0	5	-	-	.48	-	.11	20	10	6	21	26	0	9	0	6	28	28	0	2.07	
	Lincoln	9 9	22	1.5	-4.4	-1.5	-	5.0	28	-12.8	5	0.2	1.9	.43	-	.11	14	9	4	11	28	0	0	0	10	27	28	0	2.43	
	Cranwell	9 9	205	0.9	-4.5	-1.8	-5.3	4.3	13	-12.3	5	0.6	2.8	.40	24	.09	20	10	4	18	24	0	4	0	6	28	28	0	2.37	
	Cleethorpes	9 9	23	1.6	-2.8	-0.6	-4.6	4.4	27	-7.8	5	-	-	.87	49	.14	14	13	10	6	28	0	0	0	1	28	-	0	2.45	
	Manby	21-9	55	1.7	-3.9	-1.1	-	4.6	26,28	-10.8	25	-	-	.81	-	.21	14	13	7	19	21	0	9	0	4	28	28	0	2.67	
	Skegness	9 9	15	1.3	-2.6	-0.7	-4.4	4.4	26	-8.3	21,25	-	-	.59	39	.15	14	11	4	13	19	0	4	0	3	27	28	1	2.36	
	3 ENGLAND, E.																													
	Norfolk	Terrington																												
		St. Clement	9 9	13	1.3	-3.9	-1.3	-	5.6	28	-12.8	5	-0.1	-	.55	41	.11	20	11	5	11	16	0	0	0	4	27	28	0	3.00
		Marham	21-9	76	1.5	-3.4	-0.9	-	5.8	28	-8.6	5	-	-	.61	-	.12	6	12	7	18	17	0	4	0	3	28	28	0	-
Santon Downham		9 9	80	1.7	-5.0	-1.7	-	6.7	28	-15.0	25	0.2	2.1	.44	-	.09	1	11	6	-	26	-	-	-	-	1	27	27	-	-
West Raynham		21-9	250	0.8	-4.2	-1.7	-	5.1	28	-10.7	5	-	-	.79	-	.14	3	11	6	18	24	0	7	0	5	28	28	0	2.64	
Cromer		9 9	178	1.6	-3.2	-0.8	-4.7	5.0	27,28	-7.8	5,6	-	-	.76	41	.28	7	10	7	-	18	-	-	-	0	27	28	-	3.24	
Sprowston		9 9	93	1.3	-4.8	-1.7	-5.3	5.0	28	-15.0	5	0.5	-	.50	29	.16	7	9	4	8	22	0	2	0	1	27	28	0	2.49	
Burlingham		9 9	89	1.4	-3.9	-1.3	-	4.4	28	-10.6	5	-	-	.67	40	.17	7	10	5	13										



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER February 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost: 1	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average		
				A Max.	B Min.		Maximum	Date	Minimum	Date		in.	%			Amount	Date												-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more
				Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	1 ft.	4 ft.	in.	%	in.									hr	%		
4 MIDLAND COUNTIES—cont.																														
Yorks.,	Huddersfield	9 9	325	1.8	-3.9	-1.1	-4.5	7.2	8	-10.6	25	0.2	2.7	.56	-	.18	1	11	3	-	28	-	-	-	13	27	28	-	1.40	87
W. Riding—	Oakes	21-9	761	0.8	-4.0	-1.6	-4.5	5.3	8	-8.3	2	0.9	3.5	.55	17	.14	6	10	4	14	28	0	0	0	5	28	28	0	2.04	-
cont.	Bradford	9 9	439	0.9	-3.6	-1.3	-4.4	5.6	8	-9.4	25	0.2	2.9	.83	30	.18	7	11	8	15	28	0	5	0	9	27	28	0	-	-
	Ilkley	9 9	315	1.7	-4.5	-1.4	-4.6	5.0	8,13	-12.2	25	-	-	1.28	39	.48	14	8	13	28	0	3	0	10	28	-	0	1.86	88	
	Sheffield	9 9	429	1.4	-3.4	-1.0	-4.8	6.1	8	-7.8	25	0.6	3.4	1.11	46	.37	6	11	5	18	28	0	0	0	-	28	28	0	1.50	81
	Wakefield	9 9	121	1.9	-3.5	-0.8	-4.6	7.8	8	-8.9	25	-	3.1	.53	25	.20	6	10	4	18	28	0	6	0	12	27	28	0	-	-
	Pontefract	9 9	255	1.6	-4.1	-1.3	-4.8	6.1	8	-9.4	25	-	-	.55	30	.17	6	7	5	13	25	0	2	0	17	28	28	0	-	-
	Bramham	9 9	177	0.8	-5.3	-2.3	-	4.4	8	-12.8	25	-	-	1.06	-	.35	14	11	4	14	28	0	0	0	9	28	27	0	1.68	-
	Cawood	9 9	20	1.3	-5.4	-2.1	-	5.6	8	-12.2	25	-0.2	1.8	.94	56	.30	14	6	5	9	28	0	0	0	8	28	28	0	2.28	-
	Askham Bryan	9 9	110	1.2	-4.7	-1.7	-	4.4	8	-10.6	5,26,28	-	-	1.07	60	.35	14	7	6	-	-	-	-	6	28	28	0	1.88	82	
Derby	Buxton	9 9	1007	-0.3	-5.1	-2.7	-4.7	2.2	21,22,28	-12.2	25	0.2	2.1	1.74	42	.39	1	13	5	15	28	0	1	0	14	28	28	0	-	-
	Chapel en le Frith	9 9	732	1.1	-4.4	-1.7	-	6.1	8	-8.9	25	-	-	.61	-	.19	14	13	4	17	28	0	1	0	2	28	28	0	-	-
	Mackworth	9 9	293	1.6	-3.6	-1.0	-	5.0	21,28	-10.0	25	-	-	.38	-	.22	6	4	3	13	23	0	2	0	-	28	28	0	-	-
	Belper	9 9	203	2.1	-	-	-	6.1	28	-10.0	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0	-	-
	Derby	9 9	159	2.6	-3.1	-0.3	-	5.0	21,26	-8.9	25	-	-	.48	-	.20	6	11	2	9	11	0	0	12	28	26	0	1.91	-	
	Morley	9 9	350	1.4	-3.8	-1.2	-	5.0	22	-9.4	2	-	-	.33	-	.08	14	9	4	14	24	0	0	0	-	28	27	0	2.20	- S
	Chesterfield	9 9	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Nottingham	Sutton Bonington	9 9	157	1.8	-3.5	-0.9	-4.5	4.4	21,28	-8.9	25	0.3	2.4	.35	21	.15	6	6	3	14	13	0	7	0	1	28	28	0	2.17	98
	Watnall	21-9	385	1.5	-3.8	-1.1	-	5.1	28	-8.5	2	-	-	.50	25	.19	6	6	4	21	25	0	6	0	8	28	28	0	2.07	-
	Mansfield	9 9	362	1.3	-3.8	-1.3	-4.6	4.4	21	-10.6	5	0.6	-	.76	37	.23	6	10	4	12	28	0	0	0	2	28	28	0	-	-
	Nottingham	9 9	192	2.1	-2.6	-0.3	-4.2	5.6	13	-8.7	25	-0.4	1.3	.20	26	.07	7	5	4	-	-	-	-	-	6	28	28	0	-	-
	Warsop	9 9	150	1.5	-4.6	-1.5	-	5.6	13	-12.2	25	-	-	.45	26	.12	14	10	5	12	23	0	0	0	8	28	28	0	1.84	-
	Finningley	21-9	34	2.0	-3.2	-0.6	-	5.6	8	-10.3	25	-	-	.55	-	.13	6	9	5	19	20	0	5	0	6	26	28	0	2.44	- S
Leicester	Newtown Linford	9 9	392	1.4	-4.1	-1.3	-	6.1	13	-11.7	25	-	-	.62	-	.19	6	12	3	16	22	0	0	0	4	28	28	0	2.36	-
	Bugbrooke Mills	9 9	228	0.9	-4.2	-1.5	-	4.4	28	-10.6	25	-	-	.39	-	.18	14	10	3	17	26	0	0	0	7	26	-	0	1.98	-
	Caldecott	9 9	175	1.8	-4.8	-1.5	-	5.6	13,26	-10.6	2,25	-	-	.43	-	.13	6	12	3	-	-	-	-	-	2	28	28	0	2.11	-
Northampton	Raunds	9 9	193	1.3	-4.2	-1.5	-	5.0	28	-9.4	2,25,26	-0.1	-	.69	47	.12	6,7	13	8	15	25	0	0	0	6	28	28	0	1.93	- S
	Wittering	21-9	212	1.0	-3.6	-1.3	-	5.0	28	-10.4	25	-	-	.53	-	.23	6	14	4	21	16	0	8	0	8	28	28	0	2.27	-
Warwick	Birmingham K.E.S.*	9 9	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Edgbaston	21-9	536	1.0	-3.1	-1.1	-4.9	4.7	28	-7.0	2,25	2.3	4.9	.88	40	.31	14	10	5	18	28	0	1	0	5	27	28	0	2.35	114
	Luddington	9 9	138	1.6	-3.8	-1.1	-	5.0	28	-9.4	25	-	-	.39	25	.09	14	12	3	15	16	0	3	0	3	26	28	0	2.39	-
	Stratford on Avon	9 9	160	1.6	-3.7	-1.1	-	5.0	13,26,28	-8.9	25	0.5	-	.32	-	.13	10	7	4	17	16	0	1	0	5	27	28	0	2.48	-
	Elmdon	21-9	319	1.4	-3.8	-1.2	-	5.5	28	-11.8	25	-	-	.74	39	.33	6	11	4	21	14	0	6	0	5	27	28	0	2.47	-
	Shipston on Stour	9 9	365	0.9	-5.1	-2.1	-	4.4	28	-11.7	25	1.1	-	.71	-	.24	14	10	5	14	23	0	0	0	2	28	28	0	2.50	- S
	Wellesbourne	9 9	153	1.3	-4.0	-1.3	-	4.4	28	-11.7	25	-	2.0	.41	24	.17	14	6	3	12	14	0	2	0	4	26	28	0	2.29	-
	Moreton Morrell	9 9	280	1.2	-4.1	-1.5	-	4.4	28	-9.4	2,25	-	-	.53	-	.12	14	8	4	17	27	0	0	0	5	26	28	0	2.28	- S
	Rugby	9 9	385	-	-	-	-	3.3	13,26	-8.9	25	-0.3	2.6	-	-	.06	4	-	18	28	0	0	0	0	3	28	28	0	-	-
Oxford	Oxford	9 9	208	1.7	-3.1	-0.7	-4.9	6.7	28	-9.4	25	-0.1	2.8	.40	22	.13	6	11	3	15	28	0	0	0	4	25	26	0	2.37	91
	Grendon Underwood	9 9	220	1.7	-4.4	-1.3	-	5.6	28	-10.6	25	-0.1	3.7	.30	-	.17	6	3	2	15	28	0	0	0	-	26	28	0	2.22	-
	Medmenham	9 9	98	2.5	-4.1	-0.8	-	8.3	28	-11.1	25	-	-	.41	-	.20	6	5	2	-	-	-	-	-	-	26	28	0	-	-
Buckingham	Aylesbury	9 9	316	1.6	-4.3	-1.3	-	6.1	26,28	-11.1	2,28	-	-	.39	-	.20	14	4	3	16	26	0	0	0	12	27	27	0	2.57	-
	Keele	9 9	587	1.1	-3.6	-1.3	-	4.4	28	-7.2	2,3,25	-0.1	3.3	.27	12	.09	6,14	5	3	15	17	0	0	0	9	28	28	0	2.85	-
Stafford	Oaken	9 9	409	1.6	-4.6	-1.5	-	5.0	28	-8.9	25	0.6	-	.70	-	.24	6	7	3	-	-	-	-	-	-	28	28	0	-	-
	Stone	9 9	350	1.4	-3.6	-1.1	-	3.9	21	-7.2	2,25	-	-	.28	-	.14	6	4	3	5	16	0	0	0	5	28	28	0	2.27	- S
	Penkridge	9 9	330	1.3	-4.4	-1.5	-	4.4	28	-9.4	2	-	-	.60	-	.20	14	5	4	8	28									



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER February 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days												BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
						Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average		Most in a day		Precip'n		Snow or Sleet	Snow falling at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st below 0° C	Gale min. below 0° C	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Max.	Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	1 ft.	4 ft.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER February 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE					
			Means of				Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day												Daily Mean	Percentage of Average				
			A Max.	B Min.	Mean Temperature of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date																
																	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale						
	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.		-0.1 in. (0.2 mm) or more	-0.4 in. (1.0 mm) or more									hr	%				
<b>7a ENGLAND, N.W.—cont.</b>																																
Westmorland	Great Dun Fell	21-9	2780	-3.3	-6.5	-4.9	-	2.0	28	-12.2	2	-	-	-	-	-	-	-	-	26	-	-	-	17	28	-	2.73	-				
-cont.	Moor House	9 9	1825	-2.2	-8.5	-5.3	-	2.8	27	-15.6	24	-0.2	-	2.46	.59	1	18	12	-	28	-	-	-	4	28	28	2.74	-				
Lancashire	Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Squires Gate	21-9	33	3.6	-3.1	0.3	-	8.7	28	-7.1	4	-	.31	14	.13	7	7	2	11	3	0	5	0	5	25	26	1	4.06	165			
	Urswick	9 9	130	3.3	-3.6	-0.1	-	7.2	22	-8.3	2	-	.44	-	.22	7	6	3	8	20	0	0	0	4	25	-	-	-				
	Southport	9 9	16	3.1	-3.5	-0.2	-	8.3	27	-11.1	2	-0.2	5.8	.38	-	.17	1	3	3	-	-	-	-	0	26	26	-	3.65	-			
	Poulton-le-Fylde	9 9	38	-	-2.6	-	-	8.9	28	-6.1	2.4	-	-	-	-	-	-	-	8	8	0	0	0	0	25	-	0	-	-			
	Grizedale	9 9	300	2.8	-6.4	-1.8	-	6.7	27,28	-12.2	20	0.1	-	.81	-	.43	7	7	3	10	28	0	0	0	27	28	0	-	-			
	Speke	21-9	80	2.6	-2.1	0.3	-	6.3	27,28	-7.7	2	-	.70	34	.24	7	5	4	13	11	0	3	0	7	24	26	0	2.93	-			
	Kirkham	9 9	78	2.9	-3.1	-0.1	-	8.3	28	-8.9	2	-	.26	11	.11	1	4	3	11	8	0	1	0	1	26	28	0	3.59	-			
	Garstang	9 9	68	3.2	-3.0	0.1	-	7.8	28	-7.8	2.4	-	.24	-	.09	7	5	3	-	6	-	-	-	0	23	25	-	4.23	-			
	Morecambe	9 9	24	3.3	-2.5	0.4	-3.5	7.8	28	-6.1	2	-	.36	14	.14	14	7	3	2	8	0	0	0	0	25	-	0	4.10	167			
	Preston	9 9	108	2.8	-3.3	-0.3	-	9.4	28	-12.2	2	-	.44	16	.20	1	6	5	13	8	0	1	0	3	25	27	0	-	-			
	Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Stonyhurst	9 9	377	2.0	-3.5	-0.7	-4.0	5.6	26	-8.9	2	-	.39	11	.16	1	5	3	-	28	-	-	-	1	27	28	-	3.39	162			
	Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Helmshore	9 9	854	1.0	-3.9	-1.5	-	6.1	28	-8.9	2	1.1	-	.66	-	.30	7	5	3	-	28	-	-	1	28	28	-	3.10	-			
	Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Burnley	9 9	655	1.3	-4.6	-1.7	-	3.9	8,13,26	-10.6	2	-	3.7	1.20	-	.43	14	10	5	-	28	-	-	0	28	28	-	1.83	-			
	Nelson	9 9	540	0.9	-4.5	-1.8	-	4.4	8	-10.6	25	-	3.3	(1.22 38)	.32	14	(7 6)	-	28	-	-	-	-	9	28	28	-	2.63	-			
	Rochdale	9 9	362	2.0	-3.3	-0.7	-	5.6	26,28	-8.3	25	-	-	.24	-	.09	1	5	3	5	8	0	0	1	26	28	1	2.34	-			
Cheshire	West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Bidston Obs'y. ¶	9 9	198	1.9	-2.0	-0.1	-4.3	5.6	8	-7.2	2	-	.43	22	.19	6	5	3	-	-	-	-	-	5	25	26	-	3.30	142			
	Winnington	9 9	65	3.1	-2.3	0.4	-	7.2	27,28	-6.7	2	-	.36	17	.16	7	4	3	10	5	0	0	0	5	23	27	0	-	-			
	Knutsford	9 9	212	3.1	-3.2	-0.1	-	7.8	28	-11.7	25	-0.1	2.8	.18	-	.08	1	5	2	-	12	-	-	-	2	26	28	-	-	-		
	Ringway ¶	21-9	248	2.6	-2.7	-0.1	-3.8	8.3	28	-6.7	3	-	.22	9	.16	1	3	2	15	7	0	4	0	2	28	27	0	3.40	177			
	Macclesfield	9 9	500	1.9	-3.6	-0.9	-4.0	6.7	28	-7.8	3	-	.25	9	.13	14	6	2	17	22	0	2	0	3	28	-	2	-	-			
<b>7b NORTH WALES</b>																																
Flint	Rhyl	9 9	31	3.3	-3.2	0.1	-4.8	8.3	27	-5.6	25	-	.22	12	.08	1,7	4	3	9	8	0	2	0	0	24	25	0	3.67	149			
	Prestatyn	9 9	12	3.4	-3.1	0.1	-	7.8	8	-9.4	25	-	.23	12	.07	1,6	5	3	5	4	1	0	0	0	26	-	0	3.18	139			
	Hawarden Bridge	9 9	17	2.6	-3.1	-0.3	-4.8	5.6	21	-9.4	2	-	1.02	52	.41	6	5	4	12	10	0	1	0	0	25	-	0	-	-			
Anglesey	Valley	21-9	26	4.9	-1.6	1.7	-3.7	11.4	27	-5.5	20	-	.47	21	.14	6	11	6	8	1	1	2	0	0	21	25	2	4.71	168			
Denbigh	Alwen	9 9	1100	0.6	-7.6	-3.5	-	5.6	27	-13.3	23	-	.79	-	.25	5	9	5	-	-	-	-	-	-	-	-	-	-	-			
	Ruthin	9 9	248	1.9	-3.8	-0.9	-	6.1	27	-8.3	3	-	.61	-	.19	6	9	5	-	17	-	-	-	-	-	-	-	-	-			
	Loggerheads	9 9	690	0.9	-6.5	-2.8	-	5.6	8	-13.3	2	1.2	3.6	1.01	-	.35	6	9	5	13	28	0	0	0	3	28	28	0	-	-		
	Bwlchgwyn	9 9	1267	-1.2	-5.9	-3.5	-	2.2	8,22	-10.0	2	1.7	-	(2.43)	-	(.70)	6	(9)	(7)	8	28	0	0	0	9	28	28	0	-	-		
	Wrexham	9 9	275	1.7	-3.7	-1.0	-	5.0	8	-8.3	2,25	0.3	2.7	.97	-	.41	6	7	5	9	27	0	2	0	6	26	28	0	-	-		
Caernarvon	Bardsey Island	21-9	60	3.9	0.3	2.1	-	8.8	27	-4.9	2	-	.71	-	.15	5	9	6	-	2	-	-	-	0	14	22	-	-	-			
	Botwnnog	9 9	112	3.9	-1.9	1.0	-	9.4	27	-6.7	20	0.6	3.5	.80	-	.20	6	10	6	8	6	0	2	0	1	23	25	0	4.24	-		
	Bryn Adda	9 9	275	4.8	-1.9	1.5	-	12.8	28	-5.0	2,25	-	.29	-	.11	14	8	3	5	3	0	4	0	0	25	27	2	4.23	-			
	Cwm Dyli	9 9	324	3.8	-3.2	0.3	-	11.7	27	-12.2	25	0.9	-	1.43	-	(.28)	6	(12)	(10)	-	10	-	-	-	0	23	27	-	-	-		
	Aber	9 9	60	5.2	-1.6	1.8	-3.6	12.8	27	-5.0	2,25	-	.51	16	.28	14	8	3	7	2	0	0	0	0	23	28	2	3.50	174			
	Llandudno ¶	9 9	13	3.7	-1.6	1.1	-4.2	10.6	27	-5.0	20,25	-	.25	12	.08	6	6	3	9	6	1	1	0	0	22	-	0	3.99	158			
Merioneth	Llyn Stwlan	9 9	1656	-0.5	-	-	-	4.4	27,28	-	-	-	.60	-	.15	6	9	6	-	28	-	-	-	-	-	-	-	-	-			
	Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Blaenau Ffestiniog	9 9	750	2.9	-3.5	-0.3	-	8.3	28	-7.2	2	-	-	-	-	-	-	-	11	18	0	0	0	1	25	-	0	3.03	- 5			
	Corwen	9 9	473	2.1	-5.8	-1.9	-	6.1	8	-11.7	3	-	1.44	-	.47	7	9	8	13	28	1	0	0	-	28	-	0	-	-			
Montgomery	Ceinws	9 9	200	2.8	-4.7	-0.9	-	6.7	21	-10.0	4	-	.93	-	.18	7	10	8	-	-	-	-	-	0	26	-	-	-	-			
	Lake Vyrnwy	9 9	995	0.2	-5.5	-2.7	-	3.3	8,21,22	-13.3	25	1.0	-	(1.87)	31	.60	6	15	9	13	28	0	4	0	5	28	28	0	-	-		
<b>8a SOUTH WALES</b>																																
Cardigan	Aberporth	21-9	378	3.2	-1.3	0.9	-	9.7	27	-6.1	4	-	1.07	34																		







DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)		VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations								NUMBER OF OBSERVATIONS										FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
											0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	211-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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286	287 to 289	290 to 292	293 to 295	296 to 298	299 to 301	302 to 304	305 to 307	308 to 310	311 to 313	314 to 316	317 to 319	320 to 322	323 to 325	326 to 328	329 to 331	332 to 334	335 to 337	338 to 340	341 to 343	344 to 346	347 to 349	350 to 352	353 to 355	356 to 358	359 to 361	362 to 364	365 to 367	368 to 370	371 to 373	374 to 376	377 to 379	380 to 382	383 to 385	386 to 388	389 to 391	392 to 394	395 to 397	398 to 400	401 to 403	404 to 406	407 to 409	410 to 412	413 to 415	416 to 418	419 to 421	422 to 424	425 to 427	428 to 430	431 to 433	434 to 436	437 to 439	440 to 442	443 to 445	446 to 448	449 to 451	452 to 454	455 to 457	458 to 460	461 to 463	464 to 466	467 to 469	470 to 472	473 to 475	476 to 478	479 to 481	482 to 484	485 to 487	488 to 490	491 to 493	494 to 496	497 to 499	500 to 502	503 to 505	506 to 508	509 to 511	512 to 514	515 to 517	518 to 520	521 to 523	524 to 526	527 to 529	530 to 532	533 to 535	536 to 538	539 to 541	542 to 544	545 to 547	548 to 550	551 to 553	554 to 556	557 to 559	560 to 562	563 to 565	566 to 568	569 to 571	572 to 574	575 to 577	578 to 580	581 to 583	584 to 586	587 to 589	590 to 592	593 to 595	596 to 598	599 to 601	602 to 604	605 to 607	608 to 610	611 to 613	614 to 616	617 to 619	620 to 622	623 to 625	626 to 628	629 to 631	632 to 634	635 to 637	638 to 640	641 to 643	644 to 646	647 to 649	650 to 652	653 to 655	656 to 658	659 to 661	662 to 664	665 to 667	668 to 670	671 to 673	674 to 676	677 to 679	680 to 682	683 to 685	686 to 688	689 to 691	692 to 694	695 to 697	698 to 700	701 to 703	704 to 706	707 to 709	710 to 712	713 to 715	716 to 718	719 to 721	722 to 724	725 to 727	728 to 730	731 to 733	734 to 736	737 to 739	740 to 742	743 to 745	746 to 748	749 to 751	752 to 754	755 to 757	758 to 760	761 to 763	764 to 766	767 to 769	770 to 772	773 to 775	776 to 778	779 to 781	782 to 784	785 to 787	788 to 790	791 to 793	794 to 796	797 to 799	800 to 802	803 to 805	806 to 808	809 to 811	812 to 814	815 to 817	818 to 820	821 to 823	824 to 826	827 to 829	830 to 832	833 to 835	836 to 838	839 to 841	842 to 844	845 to 847	848 to 850	851 to 853	854 to 856	857 to 859	860 to 862	863 to 865	866 to 868	869 to 871	872 to 874	875 to 877	878 to 880	881 to 883	884 to 886	887 to 889	890 to 892	893 to 895	896 to 898	899 to 901	902 to 904	905 to 907	908 to 910	911 to 913	914 to 916	917 to 919	920 to 922	923 to 925	926 to 928	929 to 931	932 to 934	935 to 937	938 to 940	941 to 943	944 to 946	947 to 949	950 to 952	953 to 955	956 to 958	959 to 961	962 to 964	965 to 967	968 to 970	971 to 973	974 to 976	977 to 979	980 to 982	983 to 985	986 to 988	989 to 991	992 to 994	995 to 997	998 to 1000	1001 to 1003	1004 to 1006	1007 to 1009	1010 to 1012	1013 to 1015	1016 to 1018	1019 to 1021	1022 to 1024	1025 to 1027	1028 to 1030	1031 to 1033	1034 to 1036	1037 to 1039	1040 to 1042	1043 to 1045	1046 to 1048	1049 to 1051	1052 to 1054	1055 to 1057	1058 to 1060	1061 to 1063	1064 to 1066	1067 to 1069	1070 to 1072	1073 to 1075	1076 to 1078	1079 to 1081	1082 to 1084	1085 to 1087	1088 to 1090	1091 to 1093	1094 to 1096	1097 to 1099	1100 to 1102	1103 to 1105	1106 to 1108	1109 to 1111	1112 to 1114	1115 to 1117	1118 to 1120	1121 to 1123	1124 to 1126	1127 to 1129	1130 to 1132	1133 to 1135	1136 to 1138	1139 to 1141	1142 to 1144	1145 to 1147	1148 to 1150	1151 to 1153	1154 to 1156	1157 to 1159	1160 to 1162	1163 to 1165	1166 to 1168	1169 to 1171	1172 to 1174	1175 to 1177	1178 to 1180	1181 to 1183	1184 to 1186	1187 to 1189	1190 to 1192	1193 to 1195	1196 to 1198	1199 to 1201	1202 to 1204	1205 to 1207	1208 to 1210	1211 to 1213	1214 to 1216	1217 to 1219	1220 to 1222	1223 to 1225	1226 to 1228	1229 to 1231	1232 to 1234	1235 to 1237	1238 to 1240	1241 to 1243	1244 to 1246	1247 to 1249	1250 to 1252	1253 to 1255	1256 to 1258	1259 to 1261	1262 to 1264	1265 to 1267	1268 to 1270	1271 to 1273	1274 to 1276	1277 to 1279	1280 to 1282	1283 to 1285	1286 to 1288	1289 to 1291	1292 to 1294	1295 to 1297	1298 to 1300	1301 to 1303	1304 to 1306	1307 to 1309	1310 to 1312	1313 to 1315	1316 to 1318	1319 to 1321	1322 to 1324	1325 to 1327	1328 to 1330	1331 to 1333	1334 to 1336	1337 to 1339	1340 to 1342	1343 to 1345	1346 to 1348	1349 to 1351	1352 to 1354	1355 to 1357	1358 to 1360	1361 to 1363	1364 to 1366	1367 to 1369	1370 to 1372	1373 to 1375	1376 to 1378	1379 to 1381	1382 to 1384	1385 to 1387	1388 to 1390	1391 to 1393	1394 to 1396	1397 to 1399	1400 to 1402	1403 to 1405	1406 to 1408	1409 to 1411	1412 to 1414	1415 to 1417	1418 to 1420	1421 to 1423	1424 to 1426	1427 to 1429	1430 to 1432	1433 to 1435	1436 to 1438	1439 to 1441	1442 to 1444	1445 to 1447	1448 to 1450	1451 to 1453	1454 to 1456	1457 to 1459	1460 to 1462	1463 to 1465	1466 to 1468	1469 to 1471	1472 to 1474	1475 to 1477	1478 to 1480	1481 to 1483	1484 to 1486	1487 to 1489	1490 to 1492	1493 to 1495	1496 to 1498	1499 to 1501	1502 to 1504	1505 to 1507	1508 to 1510	1511 to 1513	1514 to 1516	1517 to 1519	1520 to 1522	1523 to 1525	1526 to 1528	1529 to 1531	1532 to 1534	1535 to 1537	1538 to 1540	1541 to 1543	1544 to 1546	1547 to 1549	1550 to 1552	1553 to 1555	1556 to 1558	1559 to 1561	1562 to 1564	1565 to 1567	1568 to 1570	1571 to 1573	1574 to 1576	1577 to 1579	1580 to 1582	1583 to 1585	1586 to 1588	1589 to 1591	1592 to 1594	1595 to 1597	1598 to 1599	1600 to 1602	1603 to 1605	1606 to 1608	1609 to 1611	1612 to 1614	1615 to 1617	1618 to 1620	1621 to 1623	1624 to 1626	1627 to 1629	1630 to 1632	1633 to 1635	1636 to 1638	1639 to 1641	1642 to 1644	1645 to 1647	1648 to 1650	1651 to 1653	1654 to 1656	1657 to 1659	1660 to 1662	1663 to 1665	1666 to 1668	1669 to 1671	1672 to 1674	1675 to 1677	1678 to 1680	1681 to 1683	1684 to 1686	1687 to 1689	1690 to 1692	1693 to 1695	1696 to 1698	1699 to 1701	1702 to 1704	1705 to 1707	1708 to 1710	1711 to 1713	1714 to 1716	1717 to 1719	1720 to 1722	1723 to 1725	1726 to 1728	1729 to 1731	1732 to 1734	1735 to 1737	1738 to 1740	1741 to 1743	1744 to 1746	1747 to 1749	1750 to 1752	1753 to 1755	1756 to 1758	1759 to 1761	1762 to 1764	1765 to 1767	1768 to 1770	1771 to 1773	1774 to 1776	1777 to 1779	1780 to 1782	1783 to 1785	1786 to 1788	1789 to 1791	1792 to 1794	1795 to 1797	1798 to 1799	1800 to 1802	1803 to 1805	1806 to 1808	1809 to 1811	1812 to 1814	1815 to 1817	1818 to 1820	1821 to 1823	1824 to 1826	1827 to 1829	1830 to 1832	1833 to 1835	1836 to 1838	1839 to 1841	1842 to 1844	1845 to 1847	1848 to 1850	1851 to 1853	1854 to 1856	1857 to 1859	1860 to 1862	1863 to 1865	1866 to 1868	1869 to 1871	1872 to 1874	1875 to 1877	1878 to 1880	1881 to 1883	1884 to 1886	1887 to 1889	1890 to 1892	1893 to 1895	1896 to 1898	1899 to 1901	1902 to 1904	1905 to 1907	1908 to 1910	1911 to 1913	1914 to 1916	1917 to 1919	1920 to 1922	1923 to 1925	1926 to 1928	1929 to 1931	1932 to 1934	1935 to 1937	1938 to 1940	1941 to 1943	1944 to 1946	1945 to 1947	1948 to 1950	1951 to 1953	1954 to 1956	1957 to 1959	1960 to 1962	1963 to 1965	1966 to 1968	1969 to 1971	1972 to 1974	1975 to 1977	1978 to 1980	1981 to 1983	1984 to 1986	1987 to 1989	1990 to 1992	1993 to 1995	1996 to 1998	1999 to 2001	2002 to 2004	2005 to 2007	2008 to 2010	2011 to 2013	2014 to 2016	2017 to 2019	2020 to 2022	2023 to 2025	2026 to 2028	2029 to 2031	2032 to 2034	2035 to 2037	2038 to 2040	2041 to 2043	2044 to 2046	2047 to 2049	2050 to 2052	2053 to 2055	2056 to 2058	2059 to 2061	2062 to 2064	2065 to 2067	2068 to 2070	2071 to 2073	2074 to 2076	2077 to 2079	2080 to 2082	2083 to 2085	2086 to 2088	2089 to 2091	2092 to 2094	2095 to 2097	2098 to 2099	2100 to 2102	2103 to 2105	2106 to 2108	2109 to 2111	2112 to 2114	2115 to 2117	2118 to 2120	2121 to 2123	2124 to 2126	2127 to 2129	2130 to 2132	2133 to 2135	2136 to 2138	2139 to 2141	2142 to 2144	2145 to 2147	2148 to 2150	2151 to 2153	2154 to 2156	2157 to 2159	2160 to 2162	2163 to 2165	2166 to 2168	2169 to 2171	2172 to 2174	2175 to 2177	2178 to 2180	2181 to 2183	2184 to 2186	2187 to 2189	2190 to 2192	2193 to 2195	2196 to 2198	2199 to 2201	2202 to 2204	2205 to 2207	2208 to 2210	2211 to 2213	2214 to 2216	2217 to 2219	2220 to 2222	2223 to 2225	2226 to 2228	2229 to 2231	2232 to 2234	2235 to 2237	2238 to 2240	2241 to 2243	2244 to 2246	2247 to 2249	2250 to 2252	2253 to 2255	2256 to 2258	2259 to 2261	2262 to 2264	2265 to 2267	2268 to 2270	2271 to 2273	2274 to 2276	2277 to 2279	2280 to 2282	2283 to 2285	2286 to 2288	2289 to 2291	2292 to 2294	2295 to 2297	2298 to 2299	2300 to 2302	2303 to 2305	2306 to 2308	2309 to 2311	2312 to 2314	2315 to 2317	2318 to 2320	2321 to 2323	2324 to 2326	2327 to 2329	2330 to 2332	2333 to 2335	2336 to 2338	2339 to 2341	2342 to 2344	2345 to 2347	2348 to 2350	2351 to 2353	2354 to 2356	2357 to 2359	2360 to 2362	2363 to 2365	2366 to 2368	2369 to 2371	2372 to 2374	2375 to 2377	2378 to 2380	2381 to 2383	2384 to 2386



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS February 1963

[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS February 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,990 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS February 1963

[illegible]

**H** See Notes on Tables in the Introduction.





TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, February

1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	207	26	9	9	102.0	28	113	27	9	9	61.7	28	221	28	11	9	118.2	28
Eskdalemuir Observatory ...	311	27	28	6	168.5	28	167	22	28	6	95.7	28	317	27	37	6	179.9	28
Cambridge ...	310	28	20	12	132.9	28	146	25	20	12	89.6	28	-	-	-	-	-	-
Kingsway ...	266	28	8	10	104.4	28	108	27	8	10	69.7	28	256	28	8	10	103.1	28
Kew Observatory ...	288	28	9	10	110.7	28	112	24	8	10	69.0	28	263	28	10	10	109.1	28
Aberporth ...	312	27	28	10	164.9	28	133	28	28	10	92.7	28	-	-	-	-	-	-

TABLE VIII—NUMBER OF DAYS IN February 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								STATION	MINIMUM TEMPERATURE °C.							
	0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°		0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°
Lerwick Observatory ...	0	21	7	0	0	0	0	0	Edgbaston ...	9	19	0	0	0	0	0	0
Stornoway ...	0	16	12	0	0	0	0	0	Kew Observatory ...	2	23	3	0	0	0	0	0
Craibstone ...	1	27	0	0	0	0	0	0	Hastings ...	5	20	3	0	0	0	0	0
Rothsay ...	0	23	5	0	0	0	0	0	Southampton ...	1	22	5	0	0	0	0	0
Renfrew ...	0	20	8	0	0	0	0	0	Stonyhurst ...	4	23	1	0	0	0	0	0
Eskdalemuir Observatory ...	9	17	2	0	0	0	0	0	Bidston ...	2	25	1	0	0	0	0	0
Douglas ...	0	28	0	0	0	0	0	0	Valley ...	0	17	9	2	0	0	0	0
Cockle Park ...	3	25	0	0	0	0	0	0	Falmouth ...	0	12	5	1	0	0	0	0
Gorleston ...	3	25	0	0	0	0	0	0	Aldergrove ...	0	22	6	0	0	0	0	0
Cambridge ...	5	23	0	0	0	0	0	0	Armagh ...	0	18	10	0	0	0	0	0

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day		Precip'n	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C.	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				A Max.	B Min.			Maximum	Date	Minimum	Date	Amount	Date			-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.		°C.		°C.	°C.	in.	%	in.										hr.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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August	Willport	9	9	16	15.8	10.8	13.3	-	(21.7)	14	7.8	8, 13, 14	-	-	7.11	191	1.10	10	24	21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

Summary of observations compiled from returns of official stations and voluntary observers

MO 739



Volume 80 Number 3

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### March 1963 — *End of the very cold winter; very wet.*

Apart from the first three days and a short anticyclonic spell on the 21st-24th weather was generally cyclonic in character with depressions frequently passing near or over the country.

The opening days were fine and sunny with south-easterly winds and afternoon temperatures over most of the country only slightly below normal although many northern districts were snow-covered until the 5th. Frost, however, was very severe at night especially in north-east England where screen temperatures fell to  $-11^{\circ}\text{C}$  on the 2nd and 3rd. Troughs, associated with a low pressure system off the west of Ireland, brought a mild south-westerly air-stream with occasional rain to most districts on the 4th, and a deep depression moving north-east off the west of Scotland brought gales and more prolonged rain to the west and north the next day; nearly  $2\frac{1}{2}$  inches was recorded at Ambleside. The 6th was the first day of the year with no reports of frost from anywhere in the country.

A very wet spell followed which lasted with only minor interruptions until the 19th. During most of this time a complex low pressure system remained quasi-stationary to the south of Iceland and associated troughs and centres moved east or north-east in fairly rapid succession across the British Isles. Severe gales swept the English Channel on the 9th as a depression to the south of Ireland moved slowly north-eastwards; rain was widespread and heavy, many places recording more than 1 inch in 24 hours. The 11th was another wet day with a deep depression moving eastwards along the English Channel, but on the 12th there were some snow showers in East Anglia in the northerly winds behind the depression and good sunny periods further west. Warm-front rain spreading from the south-west brought a return of the mild, wet weather on the 13th with more than an inch of rain in many western districts. The next two or three days in most parts of the country were the mildest of the month with afternoon temperatures reaching  $16^{\circ}\text{C}$  locally in the south-east.

During the early hours of the 16th a vigorous depression moved north-east to the Irish Sea bringing gales and heavy rain to many western districts and thundery rain to parts of southern England. The complex low pressure system, which had been quasi-stationary off the west of Ireland during the previous ten days, moved eastwards over the country on the 17th giving widespread and often heavy rain, with falls of over an inch in Devon, Cornwall and western Scotland. The last of the series of depressions moved from south-west Ireland towards the Bay of Biscay on the 19th, and by the 20th a cool easterly air-stream was established over most of the country bringing banks of sea-fog to the east coast; temperatures during the afternoon rose only to  $3^{\circ}\text{C}$  at Lowestoft compared with  $11^{\circ}\text{C}$  at Torquay.

Pressure rose rapidly on the 21st as a ridge of high pressure from an anticyclone over Greenland extended southwards over the British Isles. Winds backed further to north-east or north and there were snow showers in many eastern districts and also in the Channel Islands on the 22nd, but good sunny periods in the west. The next day was also generally sunny, except in the south-east, and there was widespread frost at night.

The cold spell, however, was short-lived, as mild south-westerly winds and rain returned to north Scotland on the 24th and spread southwards to the remainder of the country the following day. Southern England had some heavy rain during the early hours of the 26th as an active depression crossed the South-west Peninsula into the English Channel. During the last few days of the month a depression moved south-east from south of Iceland giving occasional rain or showers on the 27th and 28th, and more continuous and heavier rain, with thunderstorms in the south-east, as it became centred over the country on the 29th. The next day the rain gradually died out as

the depression moved to the continent followed by a ridge of high pressure which gave good periods of sunshine on the last day of the month.

**Pressure and Wind** — Mean Pressure was everywhere below the 1921-50 average, the deficit at 9 hr ranging from 9.5 mb at Tiree to 3.9 mb at Lerwick. Surface winds were south-easterly during the first three days of the month, but apart from periods of rather variable winds on the 11th-12th, 18th-23rd and 29th-30th, winds for most of the month were south-westerly. Winds reached gale force on 20 days in Scotland and on the 5th-11th, 13th-18th and 24th-26th (16 days) in England and Wales. Gales were widespread on the 9th in southern England and on the 5th in western Scotland where gusts of 64 kt and 66 kt were recorded at Duirinish and Tiree respectively.

**Temperature** — Mean temperature was equal to the 1931-60 average in England and Wales, where maximum temperatures were mainly slightly below and minimum temperatures slightly above the average. In Scotland and Northern Ireland mean temperatures were  $0.3^{\circ}\text{C}$  and  $0.2^{\circ}\text{C}$  respectively above the average.

Extremes included: (England and Wales)  $16.7^{\circ}\text{C}$  at Letchworth, Kensington Palace and Regent's Park on the 6th,  $-15^{\circ}\text{C}$  at Kielder Castle on the 1st, 3rd and 4th; (Scotland)  $14.4^{\circ}\text{C}$  at Paisley and Helensburgh on the 20th,  $-15.6^{\circ}\text{C}$  at Braemar on the 2nd; (Northern Ireland)  $14.0^{\circ}\text{C}$  at Ballykelly on the 15th,  $-5.0^{\circ}\text{C}$  at Loughgall on the 13th, at Knockmany Forest and Pubble Forest on the 23rd and at Loughermore Forest on the 29th.

**Precipitation** — The general rainfall expressed as a percentage of the 1916-50 average was 171 in England and Wales, 167 in Scotland where it was the wettest March since 1921, and 163 in Northern Ireland. Rainfall amounts were less than the average in districts near the Moray Firth, in the extreme south-east of Scotland, in the extreme north-east of England and over the Wirral and Cheshire Plain. More than twice the average fell over large areas of Scotland, the northern Pennines and parts of north-west England and also over much of southern England except the south-east. A few places in western Scotland had more than three times their average.

Thunder was heard on 7 days in Scotland and on 8th-10th, 12th, 16th, 18th, 27th, 29th and 30th (9 days) in England and Wales. During a thunderstorm at Wincanton on the 16th hailstones of 20-22 mm diameter covered the ground to a depth of  $1\frac{1}{2}$  to 2 inches.

Snow or sleet fell on 22 days in Scotland, ground being snow-covered on 13 days; the corresponding number of days in England and Wales were 12 and 10 respectively. Much of northern England was snow-covered during the first five days of the month, snow being over 12 inches deep in many places in the north-east. Bellingham was under snow for a week which was 30 in. deep on the 1st. Snow was 2-3 inches deep in parts of Bedfordshire, Sussex, Wiltshire and Gloucestershire during the first two days of the month.

**Sunshine** — The general sunshine was 7 per cent below the 1931-60 average in England and Wales, equal to the average in Scotland and 10 per cent above the average in Northern Ireland.

**Fog** — In Scotland fog was observed at one place or another at 9 hr on 23 days and in England and Wales on the 1st-6th, 8th-15th, 17th-21st, 24th, 26th, 27th, 29th and 30th (24 days). Buxton and Ushaw College had fog on 12 and 16 days respectively. Sea fog affected much of the north-east coast on the 20th.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 4 nights.

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TABLE I—DISTRICT VALUES— March 1963

(1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE						EARTH TEMPERATURE		RAINFALL		SUNSHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average	Per-centage of Average	Per-centage of Average
			Max.	Min.	Mean							
0 SCOTLAND, N.	13.9	-11.7	+0.6	+0.4	+0.5	—	—	141	+1	101		
Eastern												
1 SCOTLAND, E.	13.9	-15.6	+0.3	+0.2	+0.2	—	—	128	+4	97		
2 ENGLAND, N.E.	15.6	-15.0	-0.6	-0.3	-0.4	-1.4	-1.8	117	+3	96		
3 ENGLAND, E.	15.7	-13.6	-0.2	+0.3	0.0	-1.7	-2.3	165	+5	87		
4 MIDLAND COUNTIES	16.1	-12.2	-0.4	+0.4	+0.1	-1.5	-1.7	171	+5	85		

DISTRICTS	AIR TEMPERATURE						EARTH TEMPERATURE		RAINFALL		SUNSHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average	Per-centage of Average	Per-centage of Average
			Max.	Min.	Mean							
5 ENGLAND, S.E.	16.7	-8.9	-0.5	+0.4	+0.1	-1.4	-1.9	189	+5	90		
Western												
6 SCOTLAND, W.	14.4	-11.7	+0.1	0.0	+0.1	-2.0	-1.7	207	+4	102		
7 ENGLAND, N.W. (and N. Wales)	15.6	-8.3	0.0	+0.5	+0.2	-2.0	-1.8	127	+2	105		
8 ENGLAND, S.W. (and S. Wales)	15.0	-7.8	-0.3	+0.2	-0.1	-1.3	-2.3	197	+6	96		
NORTHERN IRELAND	14.0	-5.0	+0.7	+0.3	+0.2	-	-	133	+5	113		

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— March 1963

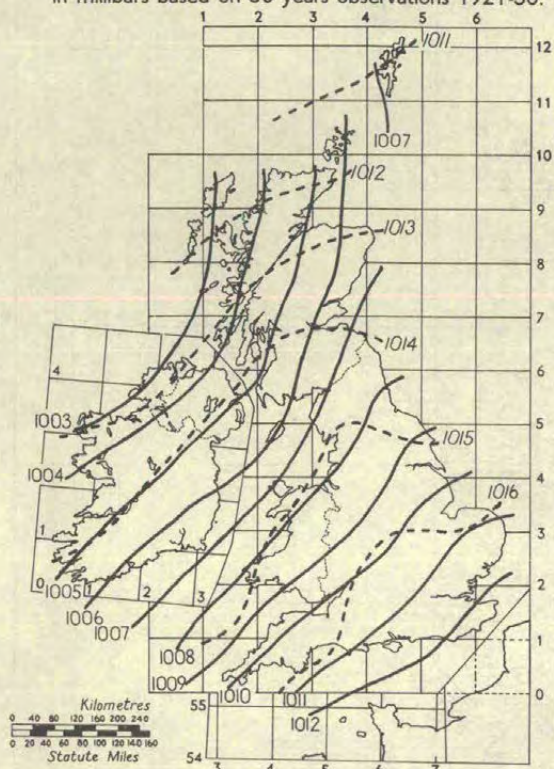
(1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities							
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust				
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Veer from N		Speed	Hour ended at	Speed	Day and Time				
ft.	ft.	ft.		hr.			hr.	hr.	hr.	hr.	hr.	knots		knots	day hr.	knots	day	h.m.			
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	14	2	15	181	436	141	14	0	16.2	140	34	14	12	54	14	1710
	Orkney	Kirkwall	134	50	33	13, 14	5	17	156	383	168	32	0	15.2	130	35	14	10	50	14	1105
	Caithness	Dounreay	110	39	30	9, 14, 18	9	16	158	341	228	0	8	15.5	140	42	14	07	61	14	0650
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	5, 6, 24, 26	23	20	185	348	82	106	0	15.9	190	45	24	10	59	24	0915
	Inverness	Benbecula	125	65	55	5, 24	14	11	46	353	248	83	0	11.6	180	43	5	22	64	5	2020
1	Moray	Lossiemouth	69	51	35	1, 5, 24	14	19	174	325	175	56	0	15.7	210	37	5	23	58	5	2240
	Aberdeen	Dyce	101	80	60	5	2	6	36	290	302	114	0	9.8	210	39	5	24	59	5	2250
	Angus	Auchterhouse	225	40	40	5	1	3	15	204	289	235	0	7.6	210	35	5	23	50	5	2245
		Bell Rock Lighthouse	822	62	50	-	0	3	3	233	301	172	35	8.3	270	24	24	22	39	5	1745
	Perth	Rannoch	128	131	124	5, 6, 9, 14, 16, 24	17	22	248	288	134	57	0	17.0	230	40	5	21	51	5	2010
	Fife	Leuchars	1006	56	57	24	1	9	43	359	146	135	0	10.4	220	36	24	14	55	5	1925
	Midlothian	Turnhouse	78	40	40	-	0	8	49	289	283	123	0	10.2	230	31	24	18	47	24	1940
		Edinburgh, Blackford Hill	137	40	33	7	1	6	34	306	291	112	0	9.9	230	35	7	09	57	7	0830
/6a	Argyll	Tiree	486	50	34	5, 7, 24	27	14	57	299	237	124	0	11.8	160	53	5	16	79	5	1540
	Bute	Millport	89	60	47	1, 2, 5, 13, 14, 24, 31	27	20	245	208	147	117	0	16.5	200	45	5	21	66	5	2010
	Renfrew	Paisley	50	34	34	7	1	8	44	324	211	164	0	12.3	250	34	7	09	53	7	0850
		Renfrew	188	81	31	-	0	5	30	234	343	140	0	8.6	210	31	5	18	48	7	0905
	Lanark	Lowther Hill	71	41	39	-	0	5	30	234	343	140	0	8.6	210	31	5	18	48	7	0905
	Ayr	Prestwick Airport	2412	43	33	*	0	6	26	295	338	85	0	9.9	170	28	5	10	46	5	1000
	Dumfries	Eskdalemuir Observatory	68	33	33	-	0	7	35	185	300	224	0	8.1	190	32	5	18	52	5	1815
	Wigtown	West Freugh	825	50	35	-	0	7	35	185	300	224	0	8.1	190	32	5	18	52	5	1815
		West Freugh	83	33	33	*	0	7	35	185	300	224	0	8.1	190	32	5	18	52	5	1815
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	5, 8, 24, 25	17	17	186	377	141	23	0	16.7	220	44	24	20	60	24	1920
		Point of Ayre	70	40	35	5	1	13	105	322	270	46	0	13.1	210	34	5	19	53	7	0440
2	Durham	Durham	389	53	33	-	0	4	21	243	270	193	17	8.2	220	30	7	09	55	7	0850
		South Shields	73	57	44	-	0	3	5	251	374	114	0	8.6	090	25	16	08	41	7	1240
	Lincoln	Cranwell	288	47	47	-	0	7	31	257	393	63	0	9.9	260	29	25	13	45	25	1255
3	Norfolk	Gorleston	45	33	33	-	0	6	21	453	265	5	0	12.2	190	31	9	15	43	9	1500
	Suffolk	Mildenhall	98	83	60	-	0	4	16	255	410	63	0	9.4	250	28	25	12	48	9	1430
	Bedford	Cardington	226	133	133	-	0	11	73	431	213	27	0	13.3	210	31	25	05	48	9	1425
	Hertford	Garston	307	50	33	-	0	0	0	138	509	92	5	7.5	270	21	26	13	45	9	1235
		Rothamsted	461	41	33	-	0	0	0	134	484	126	0	6.9	220	18	25	04	46	9	1155
	Essex	Stansted	358	31	31	-	0	3	11	397	316	20	0	11.2	180	27	9	16	42	9	1520
		Coryton	66	57	48	-	0	1	1	137	470	76	0	8.5	180	23	9	18	45	9	1750
		Shoeburyness	118	106	91	9	9	17	115	449	169	2	0	15.4	190	40	9	14	52	9	1315
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	48	382	314	0	4.6	270	17	25	13	44	25	1235
	Warwick	Edgbaston	643	118	73	-	0	3	15	243	433	53	0	9.2	200	26	16	07	41	9	1320
		Elmdon	362	30	31	-	0	6	32	353	276	83	0	10.8	260	30	25	13	47	16	0635
	Stafford	Keele	706	50	33	-	0	3	4	291	336	113	0	9.1	180	25	16	08	49	14	1520
	Gloucester	Avonmouth	92	61	33	9, 16	9	16	110	336	171	44	74	14.5	180	38	9	14	58	9	1430
5	London	Kingsway	208	143	41	-	0	2	8	239	466	31	0	9.4	270	24	25	14	50	25	1330
	Middlesex	London (Heathrow) Airport	115	33	33	-	0	4	26	376	318	24	0	11.2	180	30	9	16	49	9	1500
		Hampton	139	101	100	-	0	3	14	296	343	91	0	9.5	180	28	9	15	55	9	1405
	Surrey	Kew Observatory	92	75	50	-	0	1	6	337	340	61	0	10.0	200	24	9	14	54	9	1340
		Gatwick	232	38	33	-	0	5	23	277	333	111	0	9.5	180	31	9	14	60	9	1310
	Kent	Isle of Grain	48	40	33	-	0	3	11	297	319	80	37	9.9	190	24	9	13	43	9	1605
		Dover	68	38	62	-	0	5	16	265	342	121	0	9.3	180	27	11	19	46	24	2205
	Sussex	Thorney Island	75	65	42	-	0	3	7	379	264	94	0	10.2	180	25	9	16	47	9	1530
	Hampshire	Hurn	86	53	46	-	0	7	28	414	207	95	0	11.6	180	31	9	14	51	9	1355
		Calshot	50	41	33	9	5	12	46	511	149	33	0	14.0	180	35	9	16	50	9	1545
		S. Farnborough	313	69	35	-	0	1	6	164	409	155	0	7.6	270	26	25	15	49	9	1210
	Berkshire	Abingdon	295	40	40	-	0	5	30	403	233	78	0	11.4	180	29	9	15	42	9	1440
	Wiltshire	Larkhill	491	51	36	-	0	3	7	154	395	188	0	7.4	180	25	9	13	51	9	1110
		Boscombe Down	425	55	55	-	0	7	29	313	315	87	0	10.3	190	32	9	13	52	9	1125
		Porton	406	44	44	9	5	6	39	318	274	108	0	10.7	190	36	9	12	56	9	1410
7a	Cumberland	Carlisle	137	42	30	-	0	6	47	307	203	187	0	9.7	210	32	24	21	48	7	0850
		Sellafield	83	39	35	-	0	10	64	337	301	42	0	12.0	130	33	16	07	47	15	0550
		Spadeadam	959	51	40	7	4	9	57	344	273	66	0	11.8	220	36	7	09	54	7	0955
	Westmorland	Moor House	1960	50	45	*	0	5	23	281	334	105	0	9.6	270	35	25	12	50	25	1115
	Lancashire	Southport	59	41	33	25	1	3	11	320	309	104	0	9.6	130	28	16	07	48	25	1135
		Fleetwood	112	50	31	-	0	3	11	320	309	104	0	9.6	130	28	16	07	48	25	1135
		Speke	84	41	33	-	0	9	50	331	302	61	0	11.3	260	30	25	12	51	25	1120
		Manchester W/Centre	268	147	55	-	0	2	5	233	392	114	0	8.5	250	26	25	13	55	25	1140
		Bidston Observatory	262	64	39	25	2	5	17	351	287	47	40	-	260	35	25	12	59	25	1235
		Ringway	261	33	33	-	0	8	46	341	300	57	0	11.4	250	30	25	13	54	25	1150
7b	Anglesey	Valley	76	50	40	5, 16, 24	4	14	157	250	190	143	0	13.2	170	36	16	06	50	16	0500
8a	Cardigan	Aberporth	483	41	41	9, 15, 16, 25	14	22	239	316	150	25	0	17.7	150	31	16	03	53	8	1330
	Glamorgan	Port Talbot	91	40	35	-	0	9	26	339	320	59	0	10.9	220	31	16	06	49	16	0530
		Rhosee	257	37	32	-	0	6	41	369	313	21	0	11.3	270	30	25	13	43	25	1215
8b	Devon	Plymouth Hoe	191	88	65	9, 15, 16	9	13	81	301	203	150	0	11.5	-	42	15	24	58	15	2310
	Cornwall	St. Mary's, Scilly	230	65	57	14-18, 26	12	23	236	400	67	23	0	19.0	230	56	16	01	83	16	0010
		The Lizard	315	75	60	9, 15, 16, 24-26	15	21	165	358	145	16	39	16.6	230	44	16	02	64	16	0105
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	-	0	11	68	308	178	190	0	10.4	130	31	13	16	56	5	1640
	Antrim	Aldergrove	281	65	55	7	1	10	77	361	207	98	0	12.2	220	34	7	04	56	7	0350
CHANNEL ISLES																					
		Jersey Airport	359	86	50</																

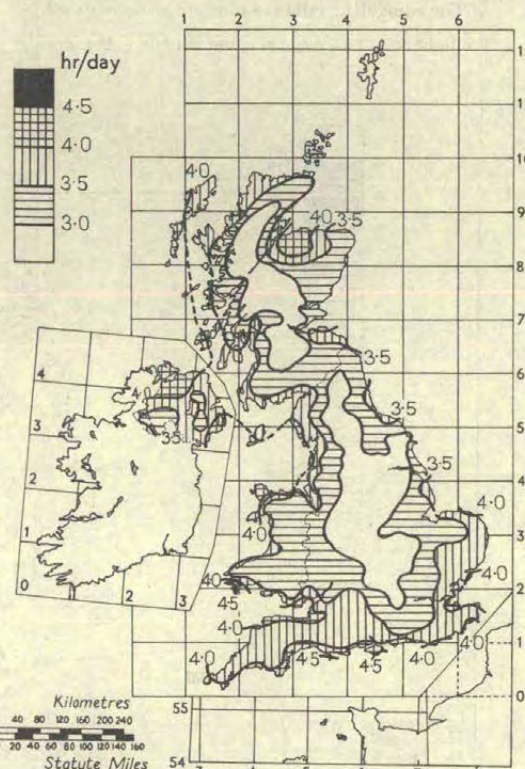


## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

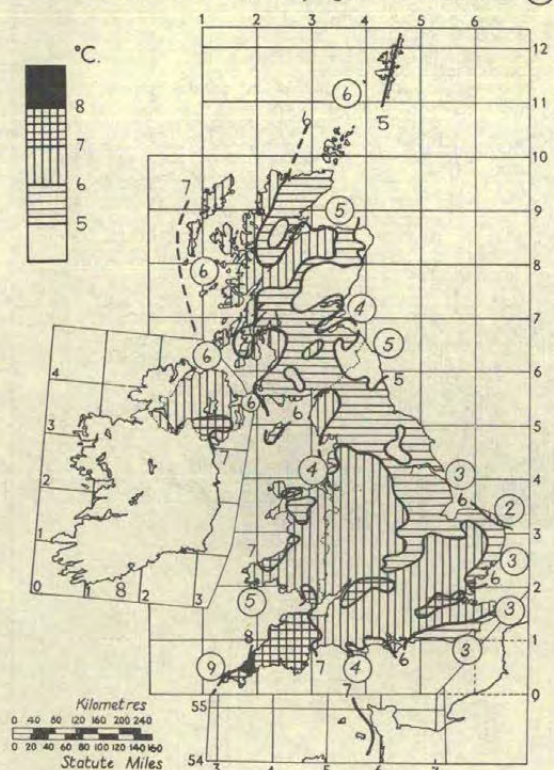


## BRIGHT SUNSHINE



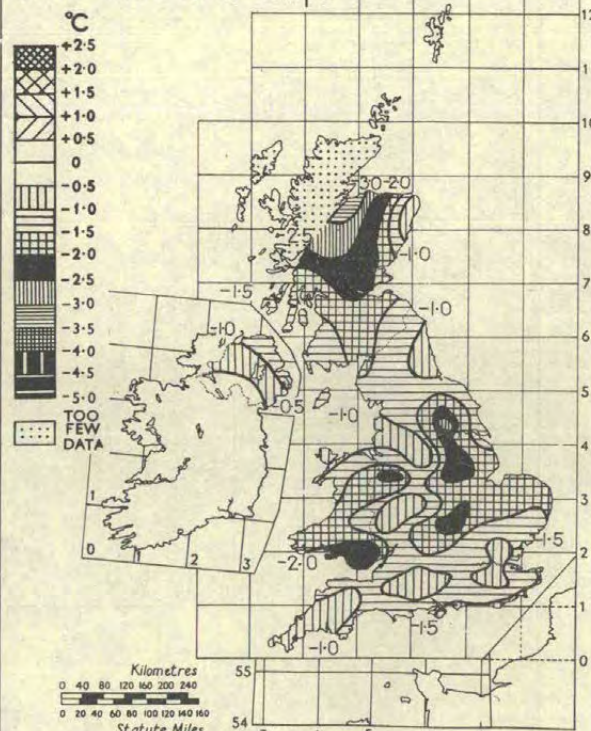
## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft.  
Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE

Key for Abnormal Anomaly  
of 1ft. Mean Earth Temps.





# RAINFALL

MARCH 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

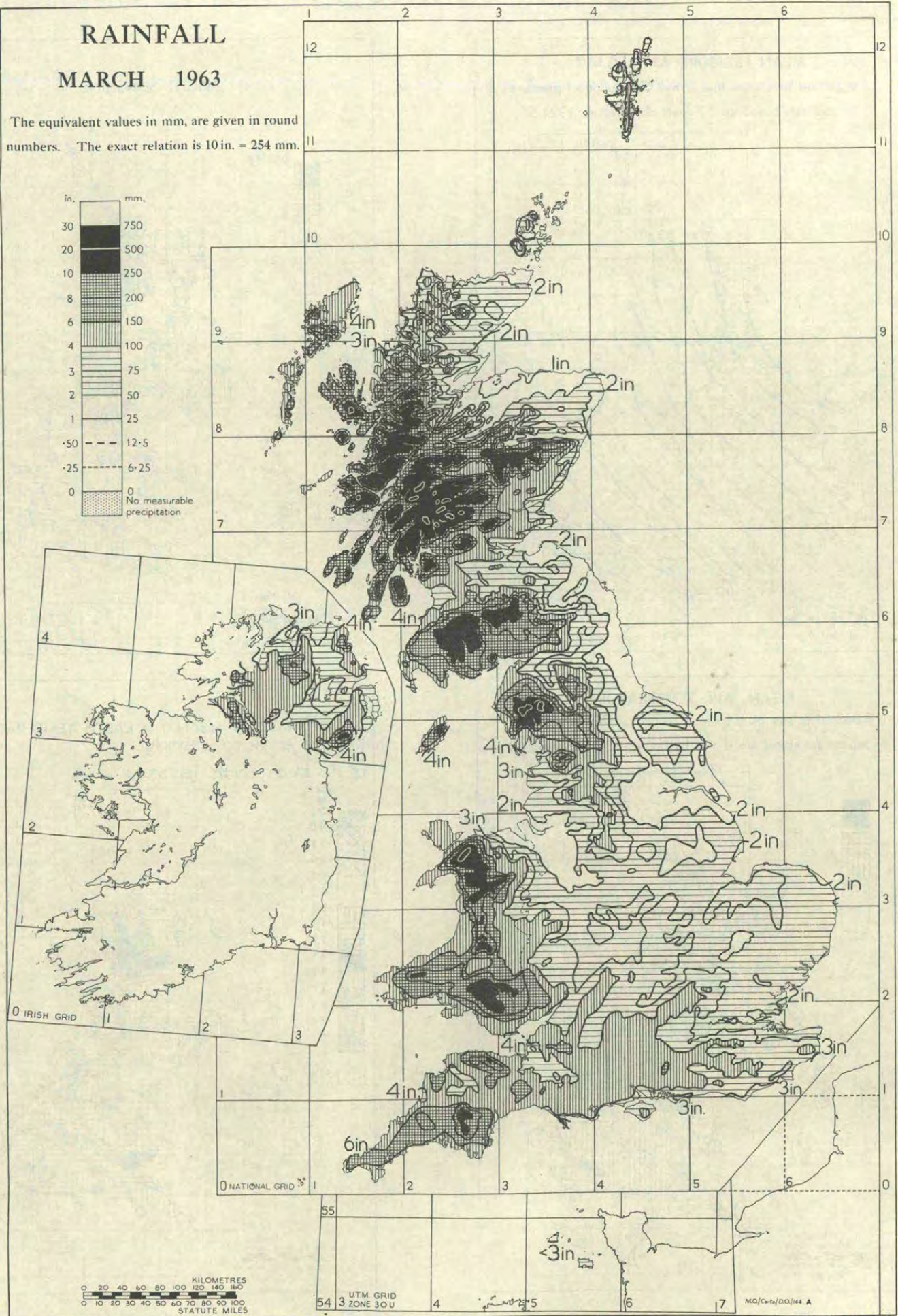
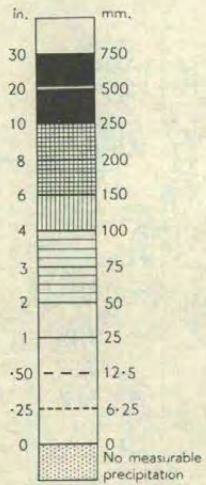








TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE				
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n		Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min below 0° C	Gale	Daily Mean	Percentage of Average		
			A Max.	B Min.		Maximum	Date	Minimum	Date		Amount	Date		-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more														
			Max. Min.	Max. Min.	Max. Min.	Max. Min.	Max. Min.	Max. Min.	Max. Min.	Max. Min.	1 ft.	4 ft.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
1 SCOTLAND, E.—cont.																													
Midlothian	Balerno ...	9 9	700	7.9	1.1	4.5	-	11.1	8	-8.9	4	-	3.50	-	.79	24	17	16	0	0	0	0	0	1	7	15	1	3.25	99
	Turnhouse ...	21-9	114	9.2	2.0	5.6	+0.4	13.0	19	-8.1	2	-	2.51	161	.67	24	18	15	0	0	0	0	0	2	5	14	2	3.24	-
	Edinburgh—E. Craigs	9 9	200	8.9	2.1	5.5	-	12.2	14, 15	-7.2	2, 3	-	2.33	-	.65	24	18	14	0	0	0	0	0	1	6	13	1	3.41	-
	Davidson's Mains	9 9	200	9.1	1.9	5.5	+0.2	12.8	15	-6.1	2, 3	2.3	2.43	-	.61	24	20	14	0	0	0	0	0	1	6	15	1	3.41	- S
	Penicuik ...	9 9	620	8.2	1.1	4.7	-	11.7	6, 19	-7.8	3	2.4	2.68	-	.69	24	23	17	1	6	0	0	0	1	9	19	0	3.08	-
	Bush House ...	9 9	605	8.2	1.2	4.7	-	11.7	6	-7.8	3	2.5	2.57	-	.63	24	23	17	2	4	1	0	0	1	7	26	1	3.64	-
	Edinburgh—																												
	Blackford Hill §§	9 9	441	9.0	2.6	5.8	+0.6	12.8	6, 14	-5.0	4	-	2.19	137	.40	13	21	13	0	0	0	0	0	3	6	13	3	3.24	91
	Liberton ...	9 9	200	9.1	2.0	5.5	+0.2	13.3	14	-8.3	4	-	2.16	-	.40	24	19	14	2	0	0	0	0	1	6	13	1	3.56	-
	Royal Bot. Gdns.	9 9	74	9.3	1.9	5.6	+0.2	12.8	6, 14, 15	-6.7	3, 4	2.9	2.06	-	.54	24	16	13	0	0	0	0	0	1	7	19	1	3.44	110
E. Lothian	Haddington ...	9 9	162	9.1	1.9	5.5	-	12.8	6	-8.3	3, 4	-	1.15	-	.23	24	16	12	0	0	0	0	0	0	7	14	1	3.55	-
	North Berwick ...	9 9	51	9.0	2.8	5.9	-	12.8	15	-3.9	2, 4	-	1.90	118	.42	24	21	11	3	0	0	0	0	0	4	-	1	3.34	-
	Dunbar ...	9 9	75	8.6	2.8	5.7	+0.2	12.8	6, 15	-6.1	4	-	1.09	-	.24	24	16	10	0	0	0	0	0	0	6	9	0	3.98	110
Berwick	Mertoun ...	9 9	225	8.7	0.3	4.5	-	12.2	19	-13.3	2, 3, 4	-	1.42	-	.33	13	17	10	-	-	-	-	-	-	7	16	-	3.22	-
	Lauder ...	9 9	600	7.3	-0.7	3.3	-	10.6	19	-14.4	2, 3, 4	-	2.94	-	.55	9	21	15	3	9	0	3	0	0	9	16	0	3.19	-
	Marchmont §§	9 9	498	7.6	1.1	4.3	-0.4	11.7	17	-7.2	2, 4	-	1.97	93	.31	13	15	15	0	7	0	1	0	0	7	-	1	2.86	91 S
	St. Abb's Head ...	9 9	245	7.4	1.1	4.3	-	12.0	15	-5.1	1	-	1.51	-	.35	16	13	9	0	0	0	0	0	4	6	10	3	-	-
Peebles	Stanhope Farm ...	9 9	741	8.1	1.1	4.6	-	11.1	15, 18	-9.4	3	-	5.97	-	1.03	24	19	18	3	4	1	0	0	0	8	19	0	-	-
	Blyth Bridge ...	9 9	830	7.4	1.5	4.5	-	10.0	6, 15, 19	-8.9	3	-	3.39	-	.59	24	22	18	3	5	0	0	0	0	6	15	2	2.94	-
	West Linton ...	9 9	800	7.6	0.3	3.9	-	10.6	6, 19, 20	-12.8	3	1.7	3.66	-	.78	24	22	20	4	7	0	0	0	0	8	13	0	-	-
	Gleintress ...	9 9	580	8.4	0.4	4.4	-	12.2	15	-11.7	3, 4	-	3.86	-	.48	8	21	16	2	5	0	0	0	0	10	-	0	-	-
Selkirk	Bowhill ...	9 9	600	7.7	-0.2	3.7	-	11.1	19, 23	-15.0	2	-	4.10	-	.55	8	22	17	2	8	0	0	0	1	9	-	0	-	-
Roxburgh	Wauchope ...	9 9	560	7.9	-0.4	3.7	-	11.1	17, 23	-13.3	4	-	4.25	-	.56	9	23	17	-	6	-	-	-	0	9	-	-	-	-
	Sourhope ...	9 9	900	7.4	1.2	4.3	-	11.1	17, 23	-4.4	22	-	2.16	-	.49	9	18	13	-	8	-	-	-	0	8	-	3.14	-	
6a SCOTLAND, W.																													
Argyll	Tiree ... §§	21-9	29	8.6	3.7	6.1	-0.2	10.8	7	0.4	20	-	5.26	202	.46	24	23	22	2	0	1	1	0	1	0	11	1	4.12	110
	Rhuvaal ...	21-9	65	8.7	4.1	6.4	-	12.7	15	1.2	28	-	6.01	-	.83	24	21	20	0	0	1	0	0	0	0	5	7	-	-
	Colonsay ...	9 9	87	8.8	2.1	5.5	-0.6	11.1	5, 7	-2.2	13, 22	-	4.44	142	.56	24	24	21	0	-	0	0	0	1	6	-	0	-	-
	Tobermory ...	9 9	270																										
	Campbeltown ...	9 9	10	9.2	2.8	6.0	-	12.2	17, 20	0.0	13, 24	-	5.28	-	1.40	13	19	17	-	0	-	-	-	0	-	-	3.87	-	
	Achaglachgach ...	9 9	40	9.8	2.0	5.9	-	13.3	15, 24	+2.8	1, 13, 23	-	6.99	-	.97	24	21	20	1	-	1	0	0	0	10	20	0	-	-
	Oban ...	9 9	229	9.0	1.9	5.5	-	11.7	8	-1.1	13	-	6.51	205	1.13	24	22	22	1	0	0	0	0	0	4	10	1	3.13	95
	Lepinmore ...	9 9	30	9.1	2.8	5.9	-	12.8	15	-1.1	1, 13	-	9.75	-	.94	14	22	21	2	0	3	0	0	0	3	18	0	2.83	- S
	Glenbranter ...	9 9	120	8.7	1.1	4.9	-0.3	13.3	14	-3.3	4, 13	-	14.50	237	1.76	24	23	21	-	5	-	-	-	2	13	17	-	-	-
	Benmore ...																												
	Forestry Sch. ...	9 9	46	8.9	0.8	4.9	-0.6	13.3	20	-5.6	1	2.5	13.81	229	1.33	24	23	21	0	6	0	0	1	2	12	15	1	-	-
	Younger Bot. Gdns.	9 9	40	8.9	1.5	5.2	-	12.8	20	-4.4	1, 4	-	13.82	-	1.32	24	24	21	1	6	0	2	0	2	12	17	0	-	-
Bute	Rothsay §§	9 9	150	9.1	3.2	6.1	+0.4	11.7	7, 20	-0.6	2	3.6	5.98	179	.73	17	20	19	1	0	1	0	0	2	1	11	0	3.31	105
	Millport ...	9 9	16	8.7	3.7	6.2	-	12.8	20	0.6	2, 13	-	5.55	200	.67	8, 24	19	18	0	0	0	0	0	1	0	-	5	-	-
Dunbarton	Helensburgh ...	9 9	293	8.3	1.6	4.9	-0.2	14.4	20	-4.4	2, 3	-	6.48	177	.96	24	22	22	1	0	0	0	0	1	10	-	0	-	-
	Cumbarnauld ...	9 9	310	8.4	1.1	4.7	-	11.7	15, 20	-7.8	1	-	4.76	-	.80	24	22	18	2	6	0	0	0	4	8	17	0	-	-
Stirling	Earls Hill ...	9 9	1100	5.4	0.7	3.1	-	0.9	15, 19, 23	-5.0	1, 2	-	9.83	-	1.50	24	21	19	-	-	-	-	-	7	8	12	-	2.96	-
	Stirling ...	9 9	151	9.2	1.9	5.5	+0.1	12.8	15	-5.6	4	1.6	5.62	243	.82	24	21	12	1	0	0	1	0	3	6	11	0	2.85	-
	Falkirk ...	9 9	100	9.6	1.6	5.6	+0.2	13.9	16, 18	-7.2	2	-	4.22	-	(.80)	24	18	16	-	1	-	-	-	7	-	-	-	-	-
Renfrew	Greenock ...	9 9	200	8.8	2.8	5.8	0.0	12.2	20	-3.3	2	-	8.37	206	1.36	24	21	21	1	4	1	0	0	2	6	12	0	3.49	-
	Paisley ...	9 9	106	9.8	2.8	6.3	+0.3	14.4	20	-4.4	3	3.5	6.02	215	.94	24	21	18	5	0	2	0	0	5	6	14	0	2.76	99
	Barrhead ...	9 9	97	9.2	1.5	5.3	-	12.2	15, 20	-7.8	1	-	5.77	-	1.06	24	21	19	0	0	1	0	0	1	8	12	0	-	-
Lanark	Renfrew §§	21-9	26	9.3	2.0	5.7	+0.1	12.3	15	-6.8	3	-	4.58	182	.78	24	20	19	0	0	1	2	0	4	7	13	0	2.99	102
	Crossmyloof ...	9 9	75	9.4	2.2	5.8	-	12.2	15	-5.6	3	-	4.11	-	.72	24	22	17	0	0	2	0	0	1	8	11	1	3.04	-
	Thorntonhall ...	9 9																											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				A Max.	B Min.		Maximum	Date	Minimum			Date	1 ft.													4 ft.	in.	%	in.	0.1 in. (2.5 mm.) or more	0.01 in. (0.25 mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
				Max.	Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	0.1 in. (2.5 mm.) or more	0.01 in. (0.25 mm.) or more	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE		
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st	Grass min below 0° C	Gale	Daily Mean
				A	B		Maximum	Date	Minimum	Date	in.	%	in.		Date	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more											
				Max.	Min.		Max.	Min.	Max.	Min.	1 ft.	4 ft.	Amount		Date													
4 MIDLAND COUNTIES—cont.																												
Yorks., Huddersfield	9 9	325	9.0	2.2	5.6	+0.4	13.9	15	-8.3	3	2.6	3.3	2.49	43	24	18	16	5	5	5	5	5	5	13	2.66	109		
W. Riding—Oakes	21-9	761	7.6	2.2	4.9	0.0	12.3	14, 15	-6.9	4	3.3	3.7	3.33	133	72	24	20	16	4	0	0	0	6	5	16	3	3.06	
cont. Bradford	9 9	439	8.2	2.2	5.2	+0.2	12.8	14, 15	-7.2	3	2.3	2.6	3.28	155	50	24	18	16	0	5	2	0	7	6	14	0	-	
Ilkley	9 9	315	8.7	1.3	5.0	-0.1	13.9	15	-9.4	1	-	-	3.22	137	75	9	15	11	0	6	0	0	9	5	14	0	2.59	
Sheffield	9 9	429	8.9	1.6	5.3	-0.4	14.4	15	-6.7	1	3.3	3.6	2.84	143	40	29	17	14	1	6	0	0	0	6	15	0	3.03	
Wakefield	9 9	121	9.4	2.1	5.7	-0.1	15.0	15	-7.2	3, 4	-	3.4	1.46	85	36	29	14	11	1	5	0	0	0	6	7	14	2	
Pontefract	9 9	255	8.6	2.0	5.3	-0.1	13.9	15	-6.1	1	-	-	1.49	108	40	29	13	9	0	0	0	0	5	5	11	0	-	
Bramham	9 9	177	8.3	0.6	4.5	-	13.9	16	-12.2	3	-	-	2.00	-	34	28	16	13	1	5	0	0	0	5	9	15	0	2.83
Cawood	9 9	20	8.6	0.7	4.7	-	13.9	15	-12.2	4	2.3	2.6	1.72	119	28	29	14	13	0	5	0	0	2	10	15	0	2.82	
Derby Askham Bryan	9 9	110	8.7	1.1	4.9	-	13.9	15, 16	-12.2	3	-	-	1.66	110	33	17	17	10	-	5	-	-	4	9	15	-	2.82	
Buxton	9 9	1007	6.8	1.0	3.9	-0.1	11.1	14, 15	-10.0	3	2.6	2.8	4.72	164	82	13	21	16	3	0	2	0	12	10	16	0	-	
Chapel en le Frith	9 9	732	7.9	1.4	4.7	-	12.8	14, 15	-6.1	2	-	-	3.52	-	55	13	20	13	1	4	0	0	0	1	11	17	0	-
Mackworth	9 9	293	9.0	1.8	5.4	-	14.4	15	-5.6	3	-	-	2.33	-	83	29	17	11	0	0	0	0	5	9	14	0	-	
Belper	9 9	203	-	-	-	-	14.4	14	-6.7	3	-	-	-	-	68	29	-	0	0	0	0	0	-	-	0	-	-	-
Derby	9 9	159	-	2.3	-	-	14.4	14, 15	-6.1	3	-	-	2.57	-	102	29	17	9	0	0	0	0	5	8	14	0	2.81	
Morley	9 9	350	9.1	2.2	5.7	-	13.9	15	-5.6	2	-	-	2.58	-	82	29	17	12	1	0	0	0	0	7	12	0	2.95	
Chesterfield	9 9	298	8.9	1.2	5.1	-	13.9	14, 15	-9.4	1, 3	-	-	2.00	-	39	29	16	13	3	5	0	0	0	11	5	0	-	-
Nottingham Sutton Bonington	9 9	157	9.1	1.8	5.5	-0.1	15.0	14	-6.1	3	2.7	3.2	2.64	186	99	29	19	12	1	0	0	0	1	8	13	0	2.90	
Watnall	21-9	385	9.0	2.2	5.6	-	14.4	15	-6.4	3	-	-	2.72	158	74	29	16	12	2	0	0	1	5	9	12	0	2.70	
Mansfield	9 9	362	8.4	2.2	5.3	-0.3	13.3	14, 15	-6.7	1, 2	3.5	-	3.36	191	66	29	19	13	0	0	0	0	2	4	13	0	-	
Nottingham	9 9	192	9.6	2.8	6.2	+0.2	14.4	14, 15	-3.3	2	1.9	1.6	2.41	164	85	29	17	12	0	0	0	0	2	6	12	0	2.35	
Warsop	9 9	150	9.1	0.7	4.9	-	14.4	15, 16	-10.0	3	-	-	2.59	175	56	29	18	12	0	0	0	0	5	11	17	0	3.07	
Leicester Finningley	21-9	34	9.5	2.2	5.9	-	14.8	15	-5.6	3	-	-	1.66	-	42	29	14	9	0	0	0	0	3	7	13	1	3.38	
Newtown Linford	9 9	392	8.8	1.3	5.1	-	14.4	14	-7.8	3	-	-	2.99	-	102	29	17	14	1	0	0	0	0	1	11	14	0	3.14
Bugbrooke Mills	9 9	228	8.8	1.6	5.2	-	13.9	14, 15	-7.8	1, 3	-	-	3.51	-	83	29	22	16	0	0	0	0	0	2	8	-	0	2.85
Caldecott	9 9	175	9.7	1.6	5.7	-	15.6	14, 15	-7.8	3	-	-	2.92	-	121	29	17	14	-	0	-	-	0	10	12	-	2.60	
Northampton Raunds	9 9	193	9.5	1.7	5.6	-	15.0	14, 15	-6.7	1, 2, 3	3.2	-	3.00	208	80	29	19	13	2	0	0	0	0	10	13	0	2.88	
Wittering	21-9	212	9.1	2.0	5.5	-	15.0	14	-5.2	2	-	-	2.93	-	101	29	18	12	1	0	0	0	0	1	8	15	1	3.02
Warwick Birmingham K.E.S.*	9 9	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Edgbaston	21-9	536	8.5	3.0	5.7	-0.2	14.2	14	-4.2	2	4.7	5.4	3.25	174	66	29	19	15	0	2	0	1	0	2	4	11	0	2.65
Luddington	9 9	138	9.5	2.2	5.9	-	15.0	14	-6.1	1	-	-	2.40	167	41	29	21	15	0	0	0	1	0	2	10	13	0	2.99
Stratford on Avon	9 9	160	9.7	1.9	5.8	-	15.6	14	-6.1	1, 3	4.1	-	2.46	-	42	29	19	16	0	0	0	1	0	3	9	14	0	2.91
Elmdon	21-9	319	9.1	2.2	5.7	-	14.8	14	-8.0	2	-	-	2.90	172	51	29	19	15	0	0	0	1	0	2	7	14	0	2.78
Shipston on Stour	9 9	365	8.9	1.2	5.1	-	14.4	14, 15	-6.7	1, 2	3.4	-	3.43	-	54	9	20	16	0	0	2	0	0	2	11	13	-	3.13
Wellesbourne	9 9	153	9.3	1.9	5.6	-	15.0	14	-6.1	1, 3	3.4	3.3	2.39	151	40	9	20	15	0	0	0	0	1	10	15	1	2.83	
Moreton Morrell	9 9	280	9.2	2.4	5.8	-	15.0	14	-5.6	1, 3	-	-	2.49	-	37	9	20	15	1	0	0	0	0	1	7	12	0	3.00
Rugby	9 9	385	8.9	1.9	5.4	-0.2	14.4	14	-5.6	2	3.5	2.58	-	83	29	20	13	0	2	0	0	0	2	12	12	0	2.74	
Oxford Oxford	9 9	208	9.8	3.1	6.5	+0.1	15.6	14	-5.6	2	3.8	4.1	2.98	138	37	13	20	16	0	2	0	0	1	5	9	0	2.77	
Grendon Underwood	9 9	220	9.7	1.9	5.8	-	15.0	14	-6.7	1, 3	3.4	4.1	2.97	-	43	29	20	16	0	5	0	0	-	8	13	0	2.72	
Buckingham Medmenham	9 9	98	10.7	1.2	5.9	-	16.1	6, 14	-11.1	2	-	-	3.93	-	55	9	20	17	-	-	-	-	-	10	16	-	-	-
Aylesbury	9 9	316	9.4	2.3	5.9	-	15.6	14	-5.6	1	-	-	3.28	-	47	9	18	16	2	0	0	0	0	1	9	12	0	3.10
Stafford Keele	9 9	587	8.4	2.1	5.3	-	13.3	15	-3.9	2	2.4	3.2	2.08	112	78	29	17	12	0	0	1	0	0	1	8	23	0	2.90
Oaken	9 9	409	9.3	1.4	5.3	-	14.4	15	-5.6	1, 2	3.3	-	2.46	-	86	29	14	12	-	-	-	-	-	9	16	-	-	-
Stone	9 9	350	-	2.1	-	-	-	-	-	-	-	-	1.85	-	59	29	19	14	0	0	0	0	0	1	9	18	0	2.78
Penkridge	9 9	330	9.1	2.1	5.6	-	14.4	15	-5.0	1	-	-	2.00	-	67	29	15	11	0	4	0	0	0	10	16	0	-	-
Onecote	9 9	1350	5.8	0.6	3.2	-	10.0	14, 15	-6.1	1	0.5	2.7	3.29	-	46	13	16	16	2	8	0	0	0	7	16	18	0	2.30
Shropshire Oswestry	9 9	570	8.6	1.8	5.2	-	12.2	15	-5.6	1, 2	-	-	3.51	-	57	19	19	15	0	4	1	0	0	2	6	17	0	3.00
Church Stretton	-	582	-	-	-	-	-	-	-	-	-	-	4.28	182	75	29	18	17	-	-	-	-	-	-	-	-	(2.35)	-
Shrewsbury																												



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
				Means of		Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1	Grass min below 0° C	Gale	Daily Mean	Percentage of Average		
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	0.1in. (0.2mm.) or more	0.4in. (1.0mm.) or more													
				Max.	Min.		Mean of A and B	°	°	°	°	°			°	°	in.	%												in.	
5	ENGLAND, S.E.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%		
Surrey	Kew Observatory §§	21-9	18	9.9	4.0	6.9	+0.3	13.9	14	-2.7	3	4.2	4.8	2.30	158	.39	9	18	14	1	0	1	1	1	5	10	0	3.35	92		
—cont.	Gatwick	21-9	192	10.1	2.3	6.2	-	14.8	6	-6.5	2	-	-	3.87	-	.83	9	17	14	1	0	1	0	1	0	8	10	1	3.17	-	
	Waddon	9	9	220	9.8	3.4	+0.1	13.9	6, 14	-5.0	1	-	-	3.71	220	1.06	9	17	17	-	-	-	-	-	5	-	-	-	-	-	
	Addington	9	9	474	9.2	3.1	+0.2	13.9	6	-5.0	1	-	-	3.69	207	.97	9	18	17	-	-	-	-	-	1	6	-	-	-	-	
Kent	Bromley	9	9	213	10.2	3.5	+0.4	15.0	6, 15	-4.4	1	-	-	3.00	186	.85	9	18	14	-	0	-	-	-	0	5	-	-	-	-	
	Swanley	9	9	177	10.1	3.0	-	15.6	6	-6.1	2	4.5	-	3.01	-	.76	9	19	13	0	0	0	2	0	0	7	11	0	3.37	-	
	Dartford	9	9	17	10.8	2.9	-	15.1	6	-7.2	2, 3	-	-	2.54	183	.68	9	18	13	2	0	0	0	0	0	6	-	0	-	-	
	Tunbridge Wells	9	9	351	9.3	1.8	-0.2	14.4	6	-6.1	1	4.4	4.4	4.23	214	.97	9	19	14	2	0	3	0	0	0	9	11	1	3.44	85	
	Goudhurst	9	9	280	9.5	1.9	-	14.4	6	-7.8	2	-	-	4.19	200	.84	9	20	14	1	2	0	1	0	0	7	11	3	-	-	
	East Malling §§	9	9	122	10.1	2.4	+0.4	15.0	6	-7.2	1, 2	-	4.3	2.98	182	.52	9	18	12	1	0	0	1	0	0	6	9	0	3.65	95	
	Gillingham	9	9	14	10.4	2.8	-	16.1	6	-8.3	2	-	-	2.46	-	.74	9	17	12	0	0	0	0	0	0	6	-	0	3.63	-	
	Sittingbourne	9	9	224	9.9	2.7	-	15.0	6, 16	-7.2	1	4.1	4.2	3.32	-	.97	9	15	10	0	0	0	0	0	1	5	9	1	4.02	-	
	Isle of Grain	9	9	9	10.1	3.8	-	16.1	6	-2.8	2	-	-	1.79	-	.42	9	13	10	-	0	-	-	-	0	5	9	-	3.71	-	
	Faversham	9	9	157	9.3	2.9	-	14.4	6	-5.0	1	4.0	3.7	3.35	-	.90	9	18	11	1	0	0	1	0	1	7	12	1	3.95	-	
	Dungeness	21-9	10	2	2.8	-	-	-	-	-2.2	24	-	-	3.14	208	.71	9	18	13	2	0	0	0	0	0	5	-	1	-	-	
	Wye	9	9	185	9.2	2.6	-0.1	12.8	6, 7	-4.4	2	-	-	3.57	186	.77	11	18	13	1	0	0	0	0	1	6	11	1	3.65	86	
	Whitstable	9	9	9	10.1	3.2	-	15.0	6	-3.3	1, 2	-	-	2.82	210	.68	9	17	13	0	0	0	1	1	0	6	-	0	4.10	-	
	Folkestone	9	9	128	7.7	2.6	-	10.6	6	-2.2	2	-	5.7	3.06	196	.57	9	20	13	2	0	0	1	0	1	5	9	1	4.13	-	
	Elmstone	9	9	28	10.2	2.1	-	15.0	7	-7.8	2	-	-	3.33	-	.70	11	20	12	-	0	-	-	-	1	7	8	-	-	-	
	Herne Bay	9	9	21	10.1	3.3	-	15.0	6	-2.8	3	-	-	2.51	179	.51	11	16	12	1	0	1	0	0	0	4	-	0	3.94	-	
	Dover	9	9	19	7.7	3.1	-0.9	10.6	6, 14, 18	-2.8	3	4.8	4.3	3.08	171	.56	9	19	16	1	0	0	0	0	0	1	5	6	1	3.77	- 5
	Dover R.M.S.*	9	9	402	7.0	2.4	-	11.7	14	-2.2	3	-	-	3.16	163	.60	9	19	16	-	0	-	-	-	4	6	9	-	-	-	
	Deal	21-9	18	8.9	3.9	-	-	13.8	6	-0.6	2, 3	-	-	3.50	-	.78	11	17	14	0	0	0	0	0	1	2	6	0	-	-	
	Manston	21-9	145	9.6	2.5	-	-	13.9	6	-3.4	3	-	-	2.46	-	.59	11	18	13	1	0	0	1	0	2	6	11	0	-	-	
	Ramsgate	9	9	80	8.4	3.1	-	12.8	7, 15	-0.6	1, 2	-	-	2.63	201	.65	11	16	14	2	0	1	0	0	1	3	-	-	4.31	100	
	Margate	9	9	51	9.2	3.6	-0.1	13.9	6, 7	-1.7	2, 3	4.2	4.6	2.60	213	.64	11	17	12	0	0	0	1	0	1	4	6	0	4.41	102	
Sussex	Thorney Island	21-9	10	8.9	2.8	-	-	12.1	18	-3.0	24	-	-	3.18	183	.42	17	15	12	1	0	0	1	0	1	6	15	0	3.83	-	
	Haslemere	9	9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bognor Regis	9	9	24	7.3	3.1	-1.0	11.7	18	-1.7	24	-	5.3	2.88	152	.44	17	15	12	1	0	0	0	0	1	3	6	1	4.19	96	
	Fernhurst	9	9	188	9.3	2.6	-	12.8	6, 14	-5.6	2, 3	-	-	4.77	-	.91	9	17	14	1	0	0	0	0	0	8	11	0	3.37	-	
	Littlehampton	9	9	15	7.7	2.5	-1.3	12.8	18	-2.8	24	-	4.7	3.29	182	.52	17	13	1	0	0	0	0	0	0	6	-	0	4.19	95	
	Rustington	9	9	10	8.4	2.7	-	13.9	16	-3.9	24	-	3.5	3.19	-	.49	17	15	14	-	0	-	-	-	6	13	-	3.82	-		
	Worthing	9	9	25	7.7	3.1	-1.0	11.1	18	-1.1	1, 3	4.5	4.8	3.01	175	.45	9	15	11	1	0	0	0	0	1	5	9	0	3.86	85	
	Brighton	9	9	32	7.6	3.4	-	11.7	18	-1.1	3	-	4.9	3.08	178	.47	11	15	12	1	0	0	0	0	1	3	6	0	3.72	85	
	East Grinstead	9	9	400	9.5	1.9	-	14.4	7, 14	-7.8	3	5.4	4.5	4.46	-	.82	9	15	14	1	5	1	1	0	0	9	-	2	-	-	
	Seaford	9	9	45	7.8	2.6	-	11.1	14	-3.3	24	-	-	2.57	144	.44	9	12	11	-	-	-	-	-	2	6	-	-	3.91	85	
	Eastbourne	9	9	23	7.9	3.4	-0.7	11.1	18	-3.3	3	5.2	5.8	2.91	148	.44	9	17	11	1	0	0	0	0	0	2	8	1	4.36	96	
	Eastbourne C/Guard	21-9	17	8.7	3.0	-	-	11.5	18	-3.5	3	-	-	2.95	-	.44	9	18	12	1	0	0	0	0	0	6	8	2	-	-	
	Bexhill	9	9	12	7.7	3.1	-0.9	11.1	18	-2.2	24	5.1	-	2.82	158	.53	9	17	13	1	0	0	0	0	2	3	10	0	3.65	84	
	Bodiam	9	9	73	9.3	1.8	-	13.9	14	-8.9	3	3.9	4.3	3.89	-	.83	9	16	14	-	0	-	-	-	0	9	15	-	3.83	-	
Berkshire	Hastings §§	9	9	149	7.6	3.2	-1.0	10.6	18	0.0	1, 3, 24	4.9	5.2	2.86	148	.53	9	20	13	1	0	0	0	0	0	1	9	0	3.81	85	
	Letcombe Regis	9	9	350	9.7	2.4	-	15.0	14	-8.3	1	-	-	4.05	-	.53	9	21	16	0	3	0	0	0	0	7	-	0	-	-	
	Abingdon	21-9	210	10.0	3.0	-	-	15.9	14	-5.4	2	-	-	3.04	197	.37	28	21	16	2	0	0	3	2	1	6	11	0	3.06	-	
	Compton	9	9	339	-	3.0	-	15.0	14	-3.9	2, 3	4.3	-	4.02	-	.50	9	20	16	0	0	1	1	0	3	8	14	0	3.14	-	
	Wallingford	9	9	157	10.4	2.6	-	16.1	14	-6.1	2	3.7	4.8																		



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st below 0° C	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average			
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.																Amount	Date	0.1 in. (0.2 mm.) or more
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%		
7a ENGLAND, N.W.—cont.		G.M.T.	ft.																												
Westmorland Great Dun Fell		21-9	2780	2.2	-1.0	0.6	-	5.0	7, 14, 20	-8.0	22	-	-	-	-	-	-	5	-	-	-	-	-	22	23	-	2.42	-			
—cont. Moor House		9 9	1825	4.4	-0.8	1.8	-	7.8	18	-7.8	2	0.4	-	-	8.94	-	1.47	5	22	21	-	-	-	6	17	21	3.21	-			
Lancashire Barrow-in-Furness		9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Squires Gate		21-9	33	9.2	2.3	5.7	-	12.0	20	-6.2	2	-	-	-	2.42	129	.39	13	19	12	0	0	0	0	0	14	3	4.06	108		
Urswick		9 9	130	8.5	1.4	4.9	-	12.8	20	-3.3	2	-	-	-	4.33	-	.97	13	20	18	0	0	0	0	0	5	10	-	2		
Southport		9 9	16	9.3	2.3	5.8	-	12.8	6, 15	-3.3	2	3.4	5.6	-	2.48	-	.45	29	18	13	-	-	-	-	0	8	14	-	3.82		
Poulton-le-Fylde		9 9	38	-	-	-	-	12.2	15, 17	-6.1	2	-	-	-	-	-	-	0	0	0	0	0	0	0	1	-	-	-	-		
Grizedale		9 9	300	8.3	0.1	4.2	-	11.1	20, 23	-8.3	2	1.5	-	-	11.50	-	2.55	5	21	21	1	5	0	0	0	5	13	20	0	-	
Speke		21-9	80	9.7	3.6	6.7	-	13.6	15	-2.6	2	-	-	-	1.60	90	.48	29	18	9	1	0	0	0	0	1	6	10	0	3.36	
Kirkham		9 9	78	9.3	2.2	5.7	-	12.2	15	-3.9	2	-	-	-	2.59	124	.45	24	18	13	0	0	0	0	0	1	9	14	0	3.54	
Garstang		9 9	68	9.3	2.7	6.0	-	12.8	20	-2.8	3	-	-	-	3.09	-	.55	5	20	13	-	-	-	-	0	6	16	-	3.74		
Morecambe		9 9	24	8.7	3.1	5.9	0.0	12.2	8	-2.8	2	-	-	-	3.98	186	1.09	5	20	15	0	0	0	0	0	0	5	-	0	3.82	
Preston		9 9	108	9.6	2.5	6.1	-	13.3	15	-3.3	2, 3	-	-	-	2.65	122	.45	24	18	14	0	0	0	0	0	1	7	15	0	-	
Bolton		9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Darwen		9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stonyhurst		9 9	377	8.8	1.9	5.3	+0.1	13.3	15	-4.4	2	-	-	-	3.39	129	.79	24	19	15	-	4	-	-	3	9	15	-	3.03	93	
Manchester W/Centre		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Helmshore		9 9	854	7.7	1.9	4.8	-	11.1	15, 16	-5.6	1	3.6	-	-	5.54	-	.85	24	15	15	-	4	-	-	2	6	13	-	3.26	-	
Manchester (Smokeless Zone)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Burnley		9 9	655	8.2	1.9	5.1	-	12.8	15	-5.0	1, 2, 3	-	4.0	-	3.66	-	.69	24	21	17	-	2	-	-	-	0	7	19	-	2.78	-
Nelson		9 9	540	7.9	1.8	4.9	-	12.8	15	-7.2	2	-	-	-	3.5	3.67	152	.87	24	18	14	-	5	-	-	1	5	16	-	2.82	-
Rochdale		9 9	362	8.9	2.0	5.5	-	12.8	15	-6.1	3	-	-	-	3.23	-	.60	24	18	17	0	0	0	0	1	0	3	12	2	2.64	-
Cheshire West Kirby Park		9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bidston Obs'y.		9 9	198	8.8	3.5	6.1	+0.1	13.3	15	-2.8	2	-	-	-	1.37	84	.33	29	14	10	-	-	-	-	2	4	10	-	3.54	100	
Winnington		9 9	65	10.3	3.3	6.8	-	15.6	15	-2.2	2, 3, 24	-	-	-	1.70	97	.52	29	15	10	0	0	0	0	0	1	6	12	1	-	-
Knutsford		9 9	212	9.8	2.7	6.3	-	14.4	15	-5.0	3	2.5	3.1	-	2.12	-	.62	29	16	11	-	-	-	-	0	7	17	-	-	-	
Ringway		21-9	248	9.5	3.1	6.3	+0.4	13.6	15	-3.6	2	-	-	-	2.01	114	.65	29	12	8	1	0	0	0	0	1	6	8	1	3.18	99
Macclesfield		9 9	500	9.1	2.4	5.7	+0.2	12.8	7	-2.2	2	-	-	-	2.61	127	.69	29	19	12	1	0	0	0	0	1	8	-	-	-	-
7b NORTH WALES																															
Flint Rhyl		9 9	31	9.8	3.6	6.7	+0.1	15.0	15	-2.2	1, 2	-	-	-	1.72	103	.25	29	16	12	0	0	1	0	0	0	4	5	2	4.08	107
Prestatyn		9 9	12	9.9	3.7	6.8	-	13.9	15	-4.4	1	-	-	-	1.44	81	.20	27	16	13	0	0	2	0	0	0	5	-	1	3.32	92
Hawarden Bridge		9 9	17	9.7	2.9	6.3	0.0	14.4	15	-4.4	2	-	-	-	1.71	101	.40	29	18	13	0	0	0	2	0	1	7	-	-	-	-
Anglesey Valley		21-9	26	9.4	3.8	6.1	+0.7	13.1	3	-3.7	1	-	-	-	4.23	202	.72	13	21	15	0	0	1	0	0	0	3	9	3	4.28	104
Denbigh Alwen		9 9	1100	7.3	0.2	3.7	-	10.0	15	-7.8	3	-	-	-	6.02	-	.83	24	20	18	-	-	-	-	-	14	21	-	-	-	
Ruthin		9 9	248	9.4	2.9	6.1	-	12.8	15	-2.8	3, 23	-	-	-	2.70	-	.69	29	18	14	-	-	-	-	-	1	9	-	-	-	
Loggerheads		9 9	690	8.4	2.0	5.2	-	12.2	15	-7.2	1	3.6	4.3	-	2.69	-	.40	29	22	15	1	5	0	0	0	2	8	14	1	-	-
Bwlchwyn		9 9	1267	6.4	0.9	3.7	-	10.0	15	-7.8	2	3.5	-	-	4.78	-	.66	9	20	16	3	5	0	1	0	2	13	15	3	-	-
Wrexham		9 9	275	9.7	2.4	6.1	-	15.0	15	-5.0	2	2.8	3.2	-	2.66	-	.38	9	19	14	0	0	0	1	0	2	8	16	0	-	-
Caernarvon Bardsey Island		21-9	60	8.7	4.3	6.5	-	14.4	18	1.6	23	-	-	-	3.29	-	.73	13	15	13	-	-	-	-	-	0	0	3	-	-	
Botwnnog		9 9	112	9.1	3.3	6.2	-	10.6	3, 15, 25	-0.6	1	5.1	4.8	-	4.49	-	.93	13	20	17	0	0	0	0	0	1	1	10	0	4.15	-
Bryn Adda		9 9	275	10.1	3.9	7.0	-	14.4	7	-1.7	2	-	-	-	4.53	-	.76	24	20	17	1	0	0	1	0	0	2	13	1	3.81	-
Cwm Dyli		9 9	324	9.3	3.0	6.1	-	12.8	3	-2.8	2, 3	4.3	-	-	14.95	-	2.80	13	24	20	-	-	-	-	-	0	4	13	-	-	-
Aber		9 9	60	10.9	4.1	7.5	+0.4	13.9	7.8	-2.8	2	-	-	-	5.39	212	1.06	24	19	16	1	0	0	0	0	0	3	13	0	3.90	106
Llandudno		9 9	13	9.9	4.8	7.3	+0.4	14.4	5	-1.1	2	-	-	-	2.54	137	.39	24	17	15	0	0	0	0	0	2	-	3	4.65	116	
Merioneth Llyn Stwlan		9 9	1656	5.2	0.6	2.9	-	7.2	3, 6, 8	-3.9	2, 22	-	-	-	10.96	-	2.04	24	20	18	-	7	-	-	-	-	-	-	-	-	-
Trawsfynydd		9 9	611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-</	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER March 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE							
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n											Daily Mean	Percentage of Average						
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount		Date	Snow or Sleet		Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C.	Gale										
				Max.	Min.		°C.	°C.	°C.	°C.	°C.	°C.	°C.		°C.	in.		%	in.	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more	°C.	°C.	°C.	°C.	°C.	°C.			°C.	°C.	hr	%		
8b ENGLAND, S.W.—cont.																																			
Somerset	Long Ashton	99	162	10.0	3.3	6.7	+0.2	14.4	16	-8.3	2	4.9	-	4.43	198	.61	13	17	15	0	0	0	0	0	0	0	0	3.81	109						
—cont.	Wincanton	99	375	9.4	2.4	5.9	-	13.3	14	-3.9	2.24	-	-	3.97	-	.65	17	18	15	0	0	0	0	0	0	0	0	-	-						
	Bath City Boys' School	99	388	9.3	2.8	6.1	-	13.9	14	-3.3	24	-	-	4.32	-	.58	17	19	15	0	0	0	0	0	0	0	0	-	-						
Dorset	Bath	99	67	10.3	3.2	6.7	+0.1	15.0	14	-3.9	3	5.1	4.7	4.19	207	.56	17	20	15	0	0	0	0	0	0	0	0	3.89	97						
	Lyme Regis	99	200	9.2	2.7	5.9	-	12.8	18	-2.2	3	-	-	4.86	-	.76	13	20	14	0	0	0	0	0	0	0	0	4.07	-						
	Portland Bill	21-9	35	8.0	3.8	5.9	-0.8	13.9	31	0.5	22	-	-	3.91	220	.56	25	17	14	0	0	0	0	0	0	0	0	-	-						
	Weymouth	99	16	9.9	3.5	6.7	-0.4	13.3	16, 18, 25	-3.3	24	-	-	3.92	194	.52	25	14	13	-	0	-	-	-	-	-	4.46	100							
	Winfrith	99	85	9.2	2.4	5.8	-	12.2	25	-5.0	3	-	-	4.74	-	.64	13, 17	14	13	-	0	-	-	-	-	-	-	-	-						
	Shaftesbury	99	680	8.5	2.2	5.3	-0.4	11.7	14, 15	-4.4	2	-	-	4.57	214	.75	17	19	16	-	0	-	-	-	-	-	-	-	-						
Devon	Swanage	99	37	8.5	3.3	5.9	-	12.2	18	-1.1	3, 24	-	5.3	3.72	-	.52	13, 25	15	13	0	-	0	0	0	0	0	0	4.03	93						
	Poole	99	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
	Clawton	99	412	-	-	-	-	-	-	-	-	-	-	5.24	-	.73	25	24	16	0	0	0	0	0	0	0	5	-	-						
	Hartland Point	21-9	298	8.6	4.8	6.7	-	12.5	6	-0.1	1	-	-	4.72	-	.75	17	20	17	0	0	0	0	0	0	0	1	2	3.97	92					
	Mount Batten	21-9	87	9.8	4.6	7.2	-0.1	12.4	6	0.0	24	-	-	5.35	196	.73	17	19	17	0	0	0	0	0	0	0	0	7	2	3.85	90				
	Plymouth, The Hoe	99	119	9.9	4.6	7.3	-0.3	12.8	12, 31	-0.6	23	6.1	6.0	5.26	193	.75	25	20	17	0	0	0	0	0	0	0	0	1	13	2	4.04	94			
	Tavistock	99	457	9.9	3.5	6.7	-0.2	13.3	31	-1.1	23, 24	-	-	6.2	7.07	-	1.01	17	23	19	0	0	0	0	0	0	0	5	16	1	-				
	Chivenor	21-9	20	10.6	4.4	7.5	-	14.0	15	-1.9	23	-	-	3.78	-	.50	28	17	14	0	0	0	0	0	0	0	0	2	11	2	3.95	-			
	Ilfracombe	99	25	9.8	5.3	7.5	-0.1	13.9	6	1.1	2, 24	6.3	6.4	5.60	230	.82	13	19	17	0	0	0	0	0	0	0	0	0	5	1	3.87	89			
	Totnes	99	120	10.7	3.1	6.9	-	13.3	6, 15	-5.6	2	5.8	5.6	7.28	209	.96	17	18	15	0	0	0	0	0	0	0	0	1	6	18	2	3.98	-		
Cornwall	Slapton	99	104	10.2	4.2	7.2	-	12.8	18	-0.6	24	-	-	5.44	-	.72	17	13	18	0	0	0	0	0	0	0	0	1	5	0	-	-			
	Newton Abbot	99	272	10.2	3.3	6.7	-0.1	12.8	15, 16	-3.3	24	-	-	6.35	220	1.07	17	20	16	0	0	0	0	0	0	0	0	1	4	16	1	4.25	104		
	Paignton	99	8	10.7	4.1	7.4	-	13.3	6, 15, 18	-1.7	24	-	-	5.30	133	.67	17	17	15	0	0	0	0	0	0	0	0	0	2	13	1	4.16	104		
	Torquay	99	26	10.4	4.2	7.3	0.0	12.3	6, 18, 25	-1.7	24	-	5.9	5.43	206	.69	17	17	15	0	0	0	0	0	0	0	0	0	2	10	1	4.66	109		
	Teignmouth	99	20	10.3	4.4	7.3	-0.1	13.3	6, 15, 18	-1.1	24	-	-	5.10	203	.73	17	16	14	0	0	0	0	0	0	0	0	1	0	2	3	2	4.43	106	
	Starcross	99	29	10.2	3.7	6.9	-	13.3	15, 16	-1.1	24	5.9	-	5.36	-	.87	17	19	16	0	0	0	0	0	0	0	0	2	3	13	1	4.47	-		
	Exeter, Southam	99	160	10.1	3.3	6.7	-	12.8	4, 16	-1.1	13, 23	-	-	5.33	-	1.09	17	19	15	0	0	0	0	0	0	0	0	0	3	3	-	-			
	Exmouth	99	195	9.5	3.4	6.5	-0.1	13.3	15	-1.1	23	-	-	4.81	196	.77	17	13	14	0	0	0	0	0	0	0	0	0	2	2	-	-			
	Exeter	21-9	106	10.3	3.5	6.9	-	13.8	15	-2.6	3, 13	-	-	4.55	134	.80	17	17	14	0	0	0	0	0	0	0	0	0	2	5	15	4	4.03	-	
	Sidmouth	99	25	9.2	3.2	6.2	-0.6	13.3	25	-1.7	23	-	-	4.89	-	.57	10	19	16	-	0	-	-	-	-	-	-	2	2	6	-	-			
	St. Mary's, Scilly	21-9	158	10.4	6.6	8.6	+0.1	12.5	16	3.0	23	-	-	4.87	193	.74	8	24	21	0	0	0	0	0	0	0	0	0	7	4	13	99			
	Penzance	99	62	-	-	-	-	-	-	-	-	-	-	6.27	198	.72	8, 25	24	24	0	2	0	0	0	0	0	0	0	2	5	3	4.18	100		
	Gulval	99	50	10.2	5.0	7.6	-0.4	12.8	15	0.0	24	-	-	6.10	203	.72	25	25	23	-	0	-	-	-	-	-	-	0	5	-	3.73	91			
	Culdrose	99	268	9.7	4.7	7.2	-	12.2	18	-0.6	23	-	-	5.02	-	.78	25	22	21	0	0	0	0	0	0	0	0	0	1	7	2	4.06	-		
	Rosewarne	99	250	9.8	5.3	7.5	-	12.2	15, 16	-0.6	24	6.5	6.2	7.04	243	.83	17	24	22	0	0	0	0	0	0	0	0	0	1	2	4	3.83	-		
	Lizard	99	240	9.4	5.4	7.4	-	11.7	21	1.7	23	-	-	4.63	132	.67	25	23	21	0	0	0	0	0	0	0	0	0	0	3	23	3	4.23	-	
Falmouth	99	167	10.4	5.1	7.7	-0.1	13.3	25	-0.6	24	-	-	5.81	193	.87	25	24	19	0	0	0	0	0	0	0	0	0	0	1	8	1	3.86	96		
Newquay	99	176	10.2	5.0	7.6	+0.1	13.3	15, 16	-1.1	23, 24	-	-	4.91	213	.71	25	21	18	0	0	0	0	0	0	0	0	0	0	2	-	3.93	92			
St. Mawgan	21-9	337	9.6	4.6	7.1	-	12.4	15	-1.0	24	-	-	5.62	-	.73	25	21	18	0	0	0	0	0	0	0	0	0	0	1	3	1	3.93	-		
St. Austell	99	310	10.1	4.3	7.2	-	12.8	16, 17	-1.1	24	-	-	6.79	194	.90	25	23	19	0	0	0	0	0	0	0	0	0	0	1	2	-	-			
Fowey	99	51	9.9	4.2	7.3	-0.5	13.3	18	-1.1	24	-	-	4.97	-	.85	25	22	19	0	0	0	0	0	0	0	0	0	0	1	2	-	-			
Bude	99	50	10.2	4.1	7.1	-0.1	13.3	15	-3.3	23	4.6	-	3.97	195	.55	25	21	17	-	0	-	-	-	-	-	-	-	2	-	3.74	86				
Ellbridge	99	190	9.9	4.1	7.0	-0.1	12.8	6	-1.1	23	-	-	5.85	-	.70	25	22	18	0	0	0	0	0	0	0	0	0	1	2	1	14	0	3.88	90	
NORTHERN IRELAND																																			
Londonderry	Loughmore Forest	99	572	9.3	1.6	5.5	-	12.8	15	-5.0	29	-	-	3.42	-	.51	24	22	17	0	0	0	0	0	0	0	0	0	3	10	15	0	-		
	Ballykelly	21-9	3	10.4	3.1	6.7	+0.2	14.0	15	-3.2	23	-	-	2.26	111	.28	13	19	16	0	0	0	0	0	0	0	0	0	0	0	8	15	2	4.55	126
	Derrynoyd Forest	99	292	10.2	1.9	6.1	-	12.8	7, 15, 23	-3.3	13	-	-	6.08	-	.80	15	22	17	2	0	0	0	0	0	0	0	0	0	1	7	14	0	-</	



TABLE IV—SUMMARY OF OBSERVATIONS AT FIXED HOURS

March

1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS										FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
											0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102







TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS March 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)		VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)				DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force				N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS March 1963

[illegible]

**H** See Notes on Tables in the Introduction.





STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	380	28	21	11	141.7	31	179	25	21	11	89.6	31	455	28	24	15	159.5	31
Eskdalemuir Observatory ...	382	23	29	14	168.8	31	207	31	29	14	107.2	31	400	23	41	14	184.7	31
Cambridge ...	456	24	52	21	212.7	31	196	27	52	21	127.5	31	-	-	-	-	-	-
Kingsway ...	450	20	49	9	185.8	31	215	27	46	9	120.2	27	469	24	52	9	198.4	31
Kew Observatory ...	462	24	46	9	202.1	31	170	27	45	9	118.5	31	459	24	56	9	212.6	31
Aberporth ...	507	31	49	5	247.8	31	259	24	49	5	152.0	31	-	-	-	-	-	-

TABLE VIII—NUMBER OF DAYS IN March 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.										STATION	MAXIMUM TEMPERATURE °C.									
	0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°	0° or less	0.1° to 5.0°		0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°	0° or less	0.1° to 5.0°
Lerwick Observatory ...	0	10	21	0	0	0	0	0	0	1	29	1	0	0	0	0	0	0	0	0	5
Stornoway ...	0	0	24	7	0	0	0	0	0	5	13	8	0	0	0	0	0	0	0	0	5
Craibstone ...	0	7	21	3	0	0	0	0	0	7	24	0	0	0	0	0	0	0	0	0	4
Rothsay ...	0	0	21	10	0	0	0	0	0	1	23	7	0	0	0	0	0	0	0	0	6
Renfrew ...	0	0	20	11	0	0	0	0	0	4	3	17	7	0	0	0	0	0	0	0	9
Eskdalemuir Observatory ...	0	3	25	3	0	0	0	0	0	4	7	18	2	0	0	0	0	0	0	0	5
Douglas ...	0	2	25	4	0	0	0	0	0	3	25	3	0	0	0	0	0	0	0	0	3
Cockle Park ...	0	5	21	5	0	0	0	0	0	5	2	23	1	0	0	0	0	0	0	0	2
Gorleston ...	0	9	15	7	0	0	0	0	0	4	26	1	0	0	0	0	0	0	0	0	8
Cambridge ...	0	3	12	14	2	0	0	0	0	1	6	17	7	0	0	0	0	0	0	0	8
Edgbaston ...	0	4	20	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Kew Observatory ...	0	1	14	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Hastings ...	0	3	27	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
Southampton ...	0	0	13	18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Stonyhurst ...	0	3	21	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9
Bidston ...	0	2	20	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5
Valley ...	0	0	22	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
Falmouth ...	0	0	15	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Aldergrove ...	0	0	17	14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Armagh ...	0	0	14	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE	
				Means of				Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day											Daily Mean	Percentage of Average
				A Max.	B Min.	Mean Temperature	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.				Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. °C.	Gale		
1962		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.		°C.		°C.	°C.	in.	%	in.	0.1in. (0.2mm.) or more	0.1in. (1.0mm.) or more									hr.	%
January	Hastings	9 9	149																									
May	Wye	9 9	185																									
"	Whitstable	9 9	9	14.2		10.8																						
"	Loggerheads	9 9	690																									
October	Brighton	9 9	32																									
November	Finningley	21 9	34											1.37													5.21	
1963																												
January	Clawton	9 9	412	0.2	-6.1	-2.9	-	4.4	14	-12.8	14	-	-					5	31	0								
"	Pools	9 9	18											.71		.32	2	8	3									
"	Colonsay	9 9	87																									
"	Bennore F.S.	9 9	46																									
"	Cape Wrath	21 9	367																									
"	Benbecula	21 9	19																									
"	Dyce	21 9	190																									
"	Edinburgh -																											
"	Davidsons Wains	9 9	200																									
"	Liberton	9 9	200																									
"	Earls Hill	9 9	1130											(.79)		(.20)	4.29	11	7									

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

Summary of observations compiled from returns of official stations and voluntary observers

MO 739



Volume 80 Number 4

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### April 1963 — *Changeable; rather dull in the South*

Weather during April was predominantly cyclonic in character. A spell of easterly winds during the first week was short lived.

The first two days were mild with occasional rain as a trough of low pressure moved slowly south-east across the country. Pressure rose rapidly over Ireland behind the trough on the 3rd and winds veered to north bringing thundery showers to many eastern districts.

The next day an anticyclone had become established to the north of Scotland and a cold north-easterly airstream on its southern flank brought wintry showers of snow and hail to most parts of the British Isles on the 4th and 5th. Winds veered still further towards the east as a depression over France deepened and moved north-east, and on the night of the 5th/6th a belt of frontal rain of this depression spread westwards over England clearing Cornwall in the early morning. The rain was followed by a dry easterly airstream from western Europe which maintained fine sunny weather during the 6th, 7th and 8th.

The next three days were dull and wet as a complex system of low pressure from the Bay of Biscay moved northwards over the country; rain was heavy locally in southern England on the 9th and in the Midlands on the 10th and 11th, but in Scotland there were good sunny periods with some wintry showers on the 11th.

Pressure remained low to the north of Scotland during most of the Easter period. Good Friday (12th) was a generally sunny day with 13 hours of sunshine in parts of southern and central England but with wintry showers further north. Easter Saturday (13th) also enjoyed long sunny periods with occasional showers, but Easter Day (14th) was generally wet with periods of heavy rain during the afternoon and evening as a small depression moved eastwards across the country; many western districts had over an 1 in. of rain and there were falls of over 2 in. in parts of Wales. The dull wet weather continued in southern England over the Bank Holiday (15th) although it was fine in many northern districts.

A deep depression moving northwards to the west of Ireland gave generally dull wet weather on the 16th and 17th, and after two mainly fair days though with thundery showers in places, another depression moved northwards off the west of Ireland on an almost similar track bringing widespread rain and gales to most western districts on the 20th and 21st; many parts of western Scotland had over 1 inch of rain on the 21st. Winds moderated on the 22nd and there were good periods of sunshine, especially in southern England, as the depression moved away northwards.

The weather pattern slowly changed on the 23rd as a depression off our south-west coasts moved south-east into France and with rising pressure behind it a ridge of high pressure became established from southern Scandinavia across the British Isles to the west of Portugal. This ridge maintained generally fine sunny weather until the 26th apart from outbreaks of rain on the 24th associated with weak troughs in the English Channel. Temperature rose steadily and patches of sea fog formed in coastal areas of the English Channel and Irish Sea. The ridge moved slowly southwards on the 27th and frontal rain of a depression near Iceland spread to all districts except south-east England; although generally dull the day was one of the warmest of the month with temperature rising above 20°C at a number of places during the afternoon. The 28th was mild and dull at first, and a cold front, moving south-east across the country, brought rain to many districts later in the day and heavy rain to south-east England on the morning of the 29th. The last day of the month started sunny in

the south, but frontal rain associated with a depression to the north of Scotland spread south-east over the country reaching all areas by midnight.

**Pressure and Wind** — Mean pressure was everywhere below the 1921-50 average, the deficit at 9 hr ranging from 0.5 mb at Lerwick to 2.9 mb at Stornoway. Surface winds, mainly south-west at first, were northerly on the 3rd and 4th and north-easterly on the 5th-9th, but after two days of rather variable winds, became predominantly westerly on 12th-22nd, after which they became variable in the south and generally south-westerly in the north until the end of the month. Winds reached gale force on 11 days in Scotland and on the 6th, 7th, 12th, 14th and 19th-22nd (8 days) in England and Wales. Gales were fairly widespread in western districts on the 21st when gusts of 62 and 64 kt were recorded at Tiree and Lowther Hill respectively.

**Temperature** — Mean temperature was equal to the 1931-60 average in Scotland and 0.1°C below in England, Wales and Northern Ireland. In most districts day temperatures were slightly below the average and night temperatures slightly above. There was a general rise in day temperatures throughout the month the coldest days being around the 3rd, 4th and the warmest around the 28th.

Extremes included: (England and Wales) 21.1°C at Mickleham on the 27th, -5.5°C at Great Dun Fell on the 8th; (Scotland) 19.5°C at Huntly on the 26th, -7.5°C at Glenmore Lodge on the 9th; (Northern Ireland) 17.8°C at several stations on the 26th and 28th, -5.0°C at Lough Braden and Lislap Forest on the 12th.

**Precipitation** — The general rainfall expressed as a percentage of the 1916-50 average was 130 over England and Wales, 97 over Scotland and 100 over Northern Ireland. Rainfall was below average along parts of the north-east coasts, in west Yorkshire, the east Midlands and north Norfolk and in parts of north Staffordshire, but more than twice the average along the Sussex and Hampshire coast, in the Isle of Wight, in parts of Wiltshire, Somerset and Devon and in north-west Wales. It was the wettest April at Worthing since 1923.

Thunder was heard on 5 days in Scotland and on the 2nd, 3rd, 5th, 9th, 11th, 18th, 19th and 21st (8 days) in England and Wales. Thunderstorms were fairly widespread on the 18th.

Sleet or snow fell on 12 days in Scotland mainly during the first half of the month and ground was reported to be snow-covered on the 12th and 13th in some places. In England and Wales there was snow or sleet at one place or another on the 3rd-6th, 11th-13th, 15th and 17th (9 days), snow showers being widely reported on the 4th and 5th. Ground was snow-covered at a few places in northern England on the 12th and in southern England on the 5th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 76 in England and Wales, 94 in Scotland and 89 in Northern Ireland. A few places in northern Scotland had above average sunshine but it was below average over most of the British Isles with as little as 60 per cent of the average in parts of the Midlands.

**Fog** — In Scotland fog was observed at 9 hr at one place or another on 16 days; in England and Wales some occurred every day except the 18th and 22nd. Patches of sea fog affected some coastal areas on 25th-29th.

**Miscellaneous Phenomena** — The aurora was observed in Scotland on 10 nights.

FH 2A



TABLE I—DISTRICT VALUES— April 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	16.3	-7.5	-0.1	+0.1	0.0	—	—	86	0	96
Eastern										
1 SCOTLAND, E.	19.5	-6.7	-0.3	+0.2	0.0	—	—	112	+4	95
2 ENGLAND, N.E.	19.4	-2.9	-0.9	+0.4	-0.3	-0.4	-1.0	99	+2	75
3 ENGLAND, E.	20.6	-4.4	-0.4	+0.2	0.0	-0.4	-1.3	119	+3	85
4 MIDLAND COUNTIES	19.4	-5.0	-0.5	+0.6	0.0	-0.2	-0.9	111	+4	72

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	21.1	-3.9	-0.5	+0.6	0.0	-0.4	-1.0	148	+4	74
Western										
6 SCOTLAND, W.	17.2	-4.8	-0.4	+0.3	-0.1	-0.4	-1.3	98	+3	90
7 ENGLAND, N.W. (and N. Wales)	18.8	-5.5	-0.4	+0.7	+0.2	-0.3	-0.9	123	+3	78
8 ENGLAND, S.W. (and S. Wales)	19.3	-3.3	-1.0	+0.5	-0.3	-0.4	-1.1	155	+6	69
NORTHERN IRELAND	17.8	-5.0	-0.3	+0.1	-0.1	-	-	100	+1	89

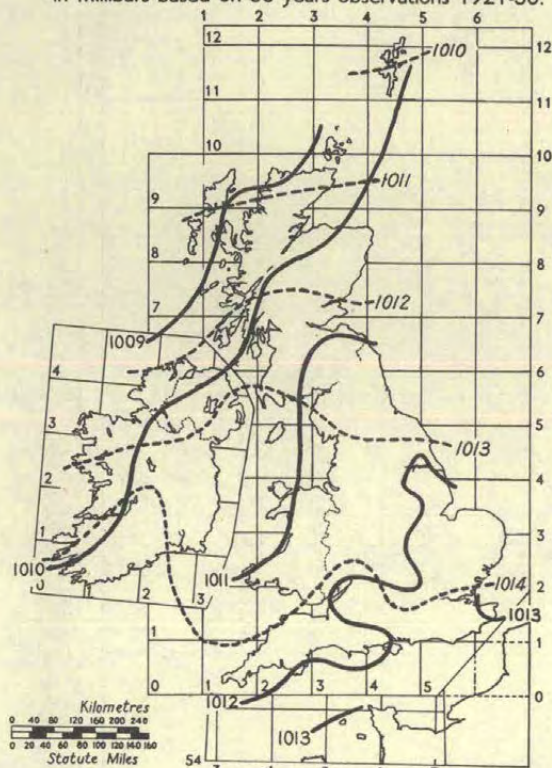
TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— April 1963 (1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities								
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust					
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Day and Time				
		ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	knots	°	knots	day hr.	knots	day	h.m.				
SCOTLAND																						
0	Zetland	Lerwick Observatory	304	33	33	-	0	10	70	397	238	15	0	13.4	210	30	13	09	45	13	0850	
	Orkney	Kirkwall	134	50	33	-	0	13	92	368	221	39	0	13.6	190	28	13	10	39	13	0930	
	Caithness	Dounreay	110	39	30	21	6	9	99	373	242	0	0	14.1	140	37	21	04	53	21	0355	
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	-	0	19	188	407	98	27	0	16.5	090	33	20	17	57	13	0155	
	Inverness	Duirinish	125	65	55	-	0	10	44	396	239	41	0	11.9	210	29	13	13	50	13	1255	
1	Moray	Lossiemouth	101	80	60	-	0	14	112	480	125	3	0	15.5	220	32	13	03	56	12	2350	
	Aberdeen	Dyce	225	40	40	-	0	7	24	330	268	95	3	10.3	200	30	13	11	50	20	2040	
	Angus	Auchterhouse	822	62	50	-	0	2	4	237	298	161	0	8.2	210	23	13	12	38	12	1340	
	Perth	Bell Rock Lighthouse	128	131	124	12, 13	7	15	173	407	108	25	0	16.9	230	36	12	24	55	12	1410	
	Fife	Rannoch	1006	56	57	12	1	11	69	357	200	93	0	12.0	-	35	12	23	49	12	2240	
	Midlothian	Leuchars	78	40	40	-	0	9	51	392	235	42	0	12.2	230	29	12	12	48	12	1210	
	Argyll	Turnhouse	137	40	33	-	0	6	33	360	289	38	0	11.5	230	27	12	15	48	12	1500	
6a	Bute	Edinburgh, Blackford Hill	496	50	34	-	0	7	55	361	244	37	23	12.3	130	31	21	16	53	12	1510	
	Renfrew	Tiree	89	60	47	21	4	14	144	398	138	38	0	15.3	110	42	21	18	62	21	1755	
	Lanark	Millport	50	34	34	-	0	8	72	234	214	200	0	9.7	040	33	9	21	50	6	0235	
	Ayr	Paisley	188	81	31	-	0	5	25	267	336	92	0	9.7	260	27	12	14	47	12	1355	
	Dumfries	Renfrew	71	41	39	-	0	2	5	267	336	92	0	9.7	260	27	12	14	47	12	1355	
	Wigtown	Lowther Hill	2412	43	33	20, 21	23	20	168	359	123	27	0	17.4	180	48	21	20	64	21	1740	
		Prestwick Airport	68	33	33	-	0	4	26	291	324	79	0	10.4	140	26	21	17	41	21	1625	
		Eskdalemuir Observatory	825	50	35	-	0	3	7	224	316	173	0	8.3	230	25	12	14	42	12	1315	
		West Freugh	83	33	33	-	0	4	39	324	273	84	0	11.0	130	32	20	13	48	20	1200	
ENGLAND AND WALES																						
6b	Isle of Man	Ronaldsway	119	64	39	14, 20, 21	10	12	130	337	199	44	0	14.6	110	37	20	10	50	21	1430	
		Point of Ayre	70	40	35	-	0	9	52	364	245	59	0	12.1	140	29	20	11	43	12	0350	
2	Durham	Durham	389	53	33	-	0	2	5	250	284	181	0	8.3	210	23	14	16	44	14	1525	
		South Shields	73	57	44	-	0	5	36	344	296	44	0	11.2	030	28	6	04	39	4	0820	
	Lincoln	Cranwell	288	47	47	-	0	3	7	229	397	87	0	8.7	-	24	14	24	42	13	1515	
3	Norfolk	Gorleston	45	33	33	-	0	4	34	283	371	27	5	10.6	070	25	6	10	35	6	0850	
	Suffolk	Mildenhall	98	83	60	-	0	1	5	170	365	180	0	7.3	170	25	21	17	44	21	1525	
	Bedford	Cardington	226	133	133	-	0	7	44	351	296	29	0	11.7	030	27	6	14	39	14	2215	
	Hertford	Garston	307	50	33	-	0	0	0	65	539	116	0	6.4	230	17	14	22	43	21	1440	
	Essex	Rothamsted	461	41	33	-	0	0	0	76	456	188	0	5.7	070	17	6	13	35	21	1500	
		Stansted	358	31	31	-	0	2	10	273	377	60	0	9.7	060	25	6	13	35	6	1145	
		Coryton	66	57	48	-	0	0	0	153	467	100	0	7.6	070	20	6	12	42	6	1605	
		Shoeburyness	118	106	91	-	0	10	89	310	293	28	0	12.9	050	33	6	14	50	21	1700	
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	49	395	276	0	5.1	210	17	14	24	37	14	2245	
	Warwick	Edgbaston	643	118	73	-	0	0	0	146	479	95	0	7.3	050	21	6	16	37	21	1330	
		Elmdon	362	30	31	-	0	4	13	277	380	50	0	9.9	180	25	21	16	40	21	1040	
	Stafford	Keele	706	50	33	-	0	1	9	246	345	120	0	8.9	060	27	6	12	46	6	1040	
	Gloucester	Avonmouth	92	61	33	-	0	9	47	273	183	150	67	10.4	180	30	21	12	53	21	0915	
5	London	Kingsway	208	143	41	-	0	0	0	190	464	66	0	8.2	190	19	21	13	39	6	1310	
	Middlesex	London(Heathrow) Airport	115	33	33	-	0	3	13	274	404	29	0	10.0	180	26	21	14	40	21	1350	
	Surrey	Hampton	139	101	100	-	0	2	3	210	370	137	0	7.9	070	23	6	14	44	21	1410	
		Kew Observatory	92	75	50	-	0	2	6	202	384	128	0	8.0	070	23	6	12	42	21	1440	
		Gatwick	232	38	33	-	0	3	9	172	336	203	0	7.3	060	25	6	17	40	6	1350	
	Kent	Isle of Grain	48	40	33	-	0	4	20	195	290	208	7	7.6	040	27	6	16	40	6	1720	
		Dover	68	38	62	-	0	1	16	157	380	167	0	7.8	020	31	6	18	47	6	1750	
	Sussex	Thorney Island	75	65	42	-	0	1	4	252	314	150	0	8.4	070	22	6	14	42	6	1510	
	Hampshire	Hurn	86	53	46	-	0	1	1	276	317	126	0	9.0	170	22	21	09	37	6	1255	
		Calshot	50	41	33	-	0	7	36	431	153	100	0	11.6	150	27	20	10	39	21	1250	
		S. Farnborough	313	69	35	-	0	0	0	82	345	293	0	5.5	070	17	6	14	40	21	1135	
	Berkshire	Abingdon	295	40	40	-	0	4	14	287	296	123	0	9.3	180	25	21	12	37	6	1355	
	Wiltshire	Larkhill	491	51	36	-	0	1	5	95	312	308	0	5.5	050	23	6	16	41	6	1205	
		Boscombe Down	425	55	55	-	0	5	23	173	316	208	0	7.9	060	26	6	16	46	20	1350	
		Porton	406	44	44	-	0	5	27	191	293	209	0	8.0	210	26	14	22	42	6	1135	
7a	Cumberland	Carlisle	137	42	30	-	0	3	15	361	174	170	0	9.9	040	24	6	07	37	6	0640	
		Sellafield	83	39	35	-	0	1	10	97	323	254	45	0	13.2	070	34	6	13	49	20	1320
		Spadeadam	959	51	40	6	1	10	97	323	254	45	0	13.2	070	34	6	13	49	20	1320	
	Westmorland	Moor House	1960	50	45	-	0	14	123	328	163	58	48	14.1	080	33	5	23	47	14	1650	
	Lancashire	Southport	59	41	33	-	0	2	15	304	254	132	15	9.7	090	31	6	12	48	6	1145	
		Fleetwood	112	50	31	-	0	4	17	292	290	121	0	9.6	060	26	6	16	47	6	1100	
		Speke	84	41	33	-	0	5	36	285	291	108	0	9.9	070	32	6	12	46	6	1105	
		Manchester W/Centre	268	147	55	-	0	1	14	219	356	131	0	8.3	060	26	6	12	50	6	1320	
		Bidston Observatory	262	64	39	-	0	2	12	277	302	129	0	-	090	25	6	12	49	14	2145	
		Ringway	261	33	33	-	0	5	33	265	303	119	0	9.5	070	32	6	11	47	6	1010	
7b	Anglesey	Valley	76	50	40	21	3	7	64	301	250	102	0	11.7	170	35	21	14	50	21	1400	
8a	Cardigan	Aberporth	483	41	41	20, 21	3	13	98	329	222	68	0	13.4	(150	36	20	06)	59	21	1240	
	Glamorgan	Port Talbot	91	40	35	-	0	3	18	293	274	135	0	9.7	070	28	6	22	53	6	2135	
		Rhosee	257	37	32	-	0	5	29	346	320	25	0	11.0	050	30	6	18	47	6	1710	
8b	Devon	Plymouth Hoe	191	88	65	-	0	8	54	222	357	87	0	10.3	-	(30)	20	18	-	-	-	
	Cornwall	St. Mary's, Scilly	230	65	57	20	8	17	136	358	167	51	0	14.9	260	39	20	18	55	21	0315	
		The Lizard	315	75	60	14, 20, 21	25	18	120	405	96	47	27	16.1	220	42	20	17	57	20	1620	
NORTHERN IRELAND																						
	Londonderry	Ballykelly	52	50	35	-	0	4	27	285	306	102	0	10.1	140	32	21	14	51	21	1050	
	Antrim	Aldergrove	281	65	55	21	1	9	79	345	253	42	0	12.7	170	35	21	14	57	21	1325	
CHANNEL ISLES																						
		Jersey Airport	359	86	50	-	0	2	6	399	280	35	0	11.1	160	27	20	12	43	20	1120	

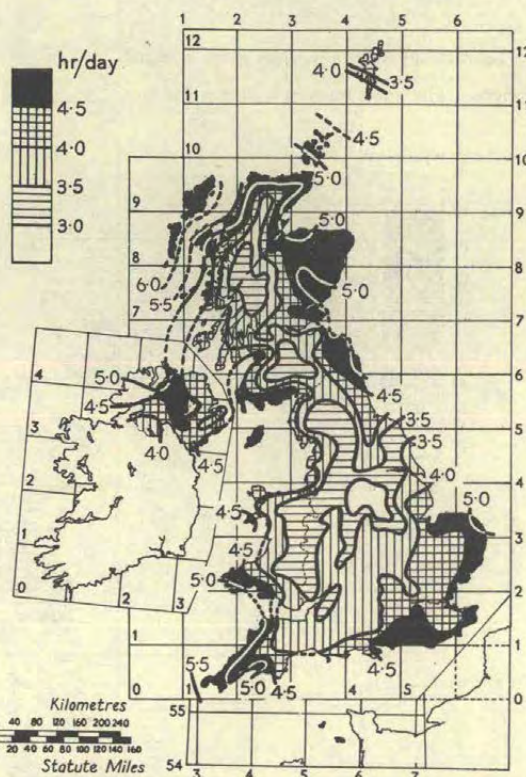


## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.



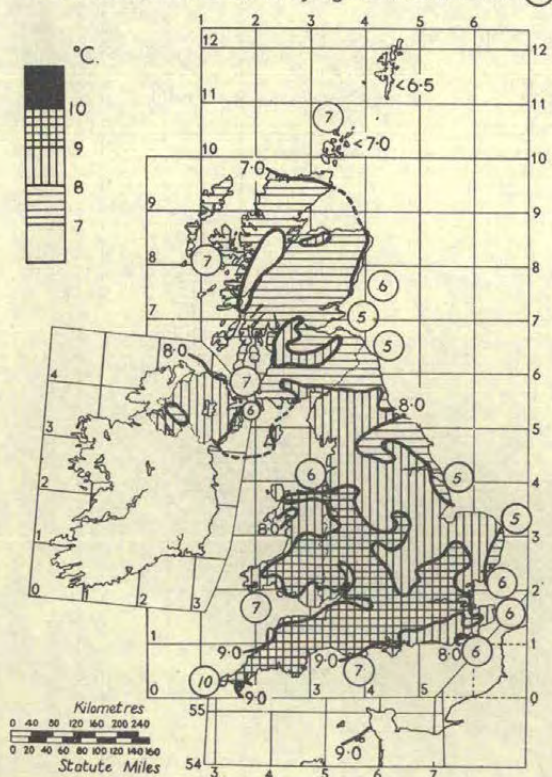
## BRIGHT SUNSHINE



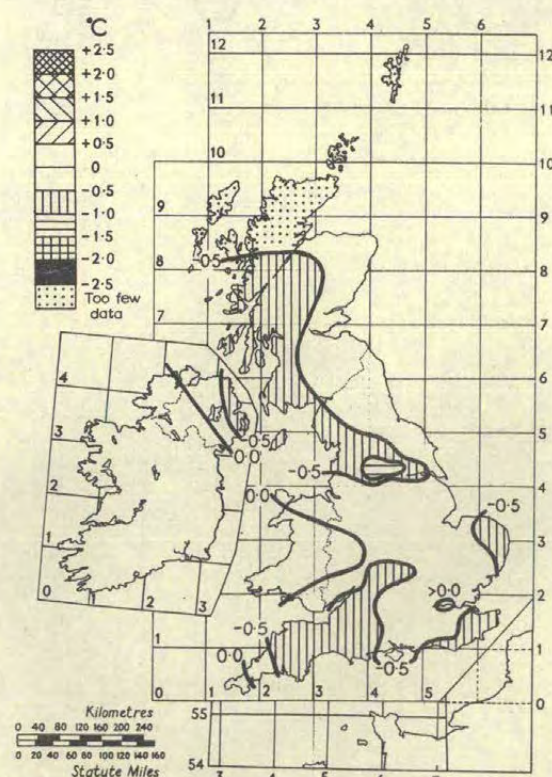
## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft.

Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL APRIL 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

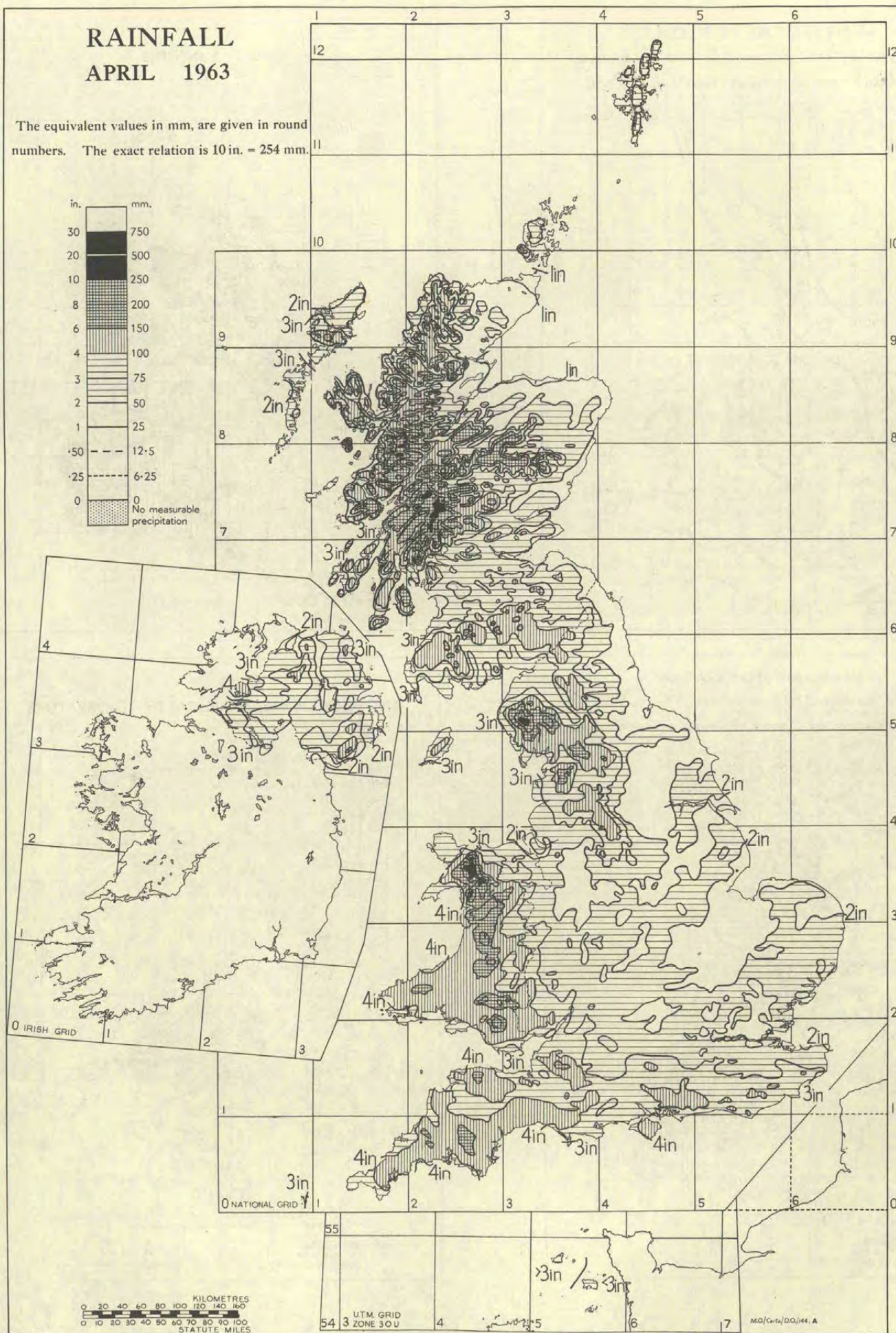
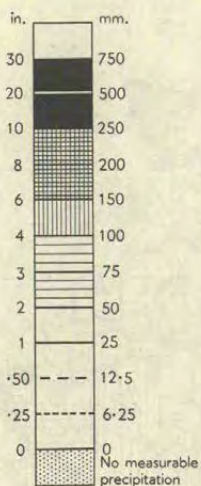




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE					
			Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st	Grass min below 6° C	Gale	Daily Mean	Per-centage of Average	
			A Max.	B Min.			Maximum	Date	Minimum	Date					Amount	Date	0.1 in. (0.2 mm.) or more	0.01 in. (1.0 mm.) or more												
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%			
0 SCOTLAND, N.																														
Zetland	Hamnavoe	9 9	70	8.3	4.4	6.3	-	12.8	23	1.1	13	-	-	3.08	-	.39	28	23	20	3	0	0	0	0	1	0	-	4	4.01	-
	Lerwick Obs'y.	21-9	269	7.5	3.5	5.5	0.0	12.1	23	-1.0	6	-	-	2.93	108	.32	28	22	19	2	0	0	9	0	4	2	6	0	3.16	72
	Baltasound	9 9	78	8.4	3.9	6.1	-	13.9	23	-0.6	12	5.2	-	3.26	110	.58	30	21	20	3	1	0	0	0	1	1	-	1	3.11	-
Orkney	Sule Skerry	9 9	43	8.1	4.9	6.5	-	10.5	23	-0.5	12	-	-	2.04	-	.37	30	20	13	1	0	0	0	0	0	1	1	6	-	-
	Stenness	9 9	75	9.8	3.7	6.7	-	13.9	23,25,26	-2.2	9	6.1	-	2.07	-	.42	11	21	13	1	1	1	0	0	0	3	10	2	4.42	-
	Costa	9 9	115	9.3	4.2	6.7	-	15.0	26	-0.6	12	-	-	2.34	-	.37	11	20	13	5	1	2	3	0	0	2	3	4	4.79	-
	Kirkwall	21-9	84	9.2	3.9	6.5	-	13.9	23	-0.9	12	-	-	1.84	71	.35	11	20	13	1	1	2	0	0	1	2	7	0	4.66	94
Caithness	Dounreay	9 9	70	10.4	2.9	6.7	-	16.1	26	-3.9	9	-	-	1.08	-	.12	28	15	14	0	0	0	0	0	0	7	10	4	-	-
	Wick	21-9	119	9.5	3.8	6.7	+0.3	14.3	25,27	-4.4	9	-	-	0.96	47	.18	17	17	9	1	0	0	3	0	1	4	9	0	5.18	122
Sutherland	Cape Wrath	21-9	367	8.6	4.0	6.3	0.0	16.0	24	-3.0	12	-	-	1.72	57	.49	13	15	12	4	1	0	4	0	2	2	6	1	-	-
	Achany	9 9	280	11.3	2.3	6.8	-	16.1	24	-4.4	10,12	6.2	5.0	1.93	64	.34	17	22	13	2	0	3	0	0	0	7	20	0	-	-
	Strathly	9 9	120	10.9	2.7	6.8	+0.3	17.8	26	-6.7	9	-	-	1.26	45	.28	30	17	11	3	0	0	1	0	0	7	-	0	5.23	125
Ross & Cromarty	Stornoway	21-9	11	10.4	4.0	7.2	+0.2	14.5	21	-2.7	10	-	-	2.11	91	.31	12	19	15	2	1	2	0	0	0	2	8	0	6.07	128
	Balmacara	9 9	2	11.2	4.3	7.7	-	15.6	23	-1.7	12	-	-	3.05	-	.66	13	21	18	-	-	-	-	-	-	-	-	-	-	-
	Poolewe	9 9	20	11.5	4.5	8.0	-	17.8	24	-1.7	7	-	-	2.86	-	.76	13	15	14	1	1	0	1	0	0	2	12	0	5.59	-
	Inverpolly	9 9	45	12.2	4.0	8.1	-	18.3	24	-1.7	7,12	6.9	-	2.85	-	.60	13	16	11	3	0	1	0	0	-	3	11	0	-	-
	Achnashellach	9 9	220	11.4	2.8	7.1	+0.2	16.7	24	-3.3	12	-	-	4.12	74	.52	13	18	15	2	1	0	0	0	0	7	-	0	-	-
	Kinlochewe	9 9	76	12.1	4.0	8.1	-	17.8	26	-5.6	10	6.1	-	3.76	-	.91	12	21	18	2	0	0	1	0	0	2	15	0	3.61	-
	Blackbridge	9 9	690	10.8	1.7	6.3	-	16.7	21,25,27	-5.6	10	-	-	2.89	-	.68	13	18	12	-	-	-	-	0	6	19	-	5.04	-	
	Fortrose	9 9	15	9.8	4.7	7.3	-0.1	14.4	21	-1.1	9	-	-	1.20	72	.33	18	17	9	-	-	-	-	0	4	-	-	4.32	93	
Inverness	Tarbatness	21-9	60	10.1	4.9	7.5	-	17.0	26	1.5	12,13	-	-	.91	-	.25	17	12	5	0	0	0	0	0	0	-	0	-	-	-
	Benbecula	21-9	19	10.3	4.5	7.4	-0.1	14.9	20	-1.8	8	-	-	1.98	77	.35	13	19	12	3	1	1	3	0	1	2	9	2	6.34	-
	Isle of Rhum	9 9	15	11.0	3.7	7.3	-	15.6	26	-1.1	8,10,12	7.4	6.6	3.59	-	1.14	21	20	13	2	1	0	2	0	0	5	16	2	-	-
	Prabost	9 9	220	10.6	3.9	7.3	-	15.0	20	-2.8	12	-	-	3.09	-	.45	13	20	15	2	1	0	1	0	0	2	16	1	4.93	-
	Duntulm	9 9	294	9.9	4.1	7.0	0.0	15.6	20	-2.2	12	-	-	2.10	62	.34	12	17	14	2	1	0	0	0	1	2	9	0	5.54	122
	Onich	9 9	48	10.6	3.7	7.1	-0.3	15.0	23	-1.7	12	-	-	4.86	101	.75	12	19	19	2	1	1	0	0	0	3	16	0	3.32	83
	Fort William	9 9	27	11.2	3.6	7.4	-	16.7	23	-2.2	10	6.5	5.9	3.27	-	.84	12	18	17	2	1	0	3	1	0	5	-	0	3.61	-
	Fort Augustus	9 9	70	10.8	3.1	6.9	+0.2	16.7	26	-1.7	12	-	-	2.54	-	.80	13	18	14	1	1	0	0	0	0	7	-	0	3.90	-
	Cannich	9 9	350	11.0	1.0	6.0	-	16.7	26,27	-7.2	8	-	-	2.57	83	.61	12	19	14	2	2	0	0	0	0	11	22	0	-	-
	Inverness	9 9	13	11.6	4.2	7.9	-	17.8	26	-2.8	9	-	-	1.07	-	.26	18	14	11	2	1	0	0	0	0	2	7	0	4.97	-
	Achnagoichan	9 9	1000	10.1	1.2	5.7	-	16.7	26	-6.7	9	4.7	-	2.25	-	.38	4	17	14	-	-	-	-	-	12	19	-	-	-	-
	Glenmore Lodge	9 9	1120	10.1	0.5	5.3	-	17.6	26	-7.5	9	-	-	2.71	-	.50	3	19	13	7	2	0	0	0	0	16	19	0	4.78	-
1 SCOTLAND, E.																														
Nairn	Nairn	9 9	20	11.6	3.2	7.4	+0.1	18.9	26	-6.1	9	-	-	.99	62	.34	18	19	6	1	0	0	0	0	0	7	14	0	5.33	113
Moray	Grantown-on-Spey	9 9	720																											
	Forres	9 9	155	11.7	3.3	7.5	-	18.3	26	-3.3	10	6.6	5.4	1.04	67	.28	17	11	7	1	0	0	0	0	0	6	7	0	5.34	115
	Kinloss	21-9	15	11.7	3.0	7.3	-	18.3	26	-4.4	10	6.4	-	.91	-	.24	17	13	8	3	0	0	4	0	0	8	14	0	5.12	-
	Elgin	9 9	92	11.8	4.2	8.0	-	16.7	23,26,28	-2.2	9	-	-	1.05	-	.23	17	15	9	0	0	0	0	0	0	3	8	0	5.35	-
	Lossiemouth	9 9	21	11.3	3.7	7.5	+0.4	16.7	24	-2.2	9	-	-	.91	-	.20	17	14	8	1	0	2	0	0	0	6	11	1	-	-
	Gordon Castle	9 9	104	11.7	3.8	7.7	+0.4	19.4	26	-2.2	9,10	-	-	.98	54	.27	10,17	13	7	1	0	1	0	0	-	4	-	0	4.72	104
Banff	Banff	9 9	80	11.0	4.1	7.5	-	17.2	26	0.0	9,12	-	-	1.01	-	.18	10	18	10	0	1	0	0	0	0	0	-	0	4.63	-
Aberdeen	Braemar	9 9	1113	9.4	-	-	-	16.1	26	-	-	-	-	2.24	100	.49	20	20	14	-	0	-	-	-	-	-	-	-	5.03	-
	Balmoral	9 9	927	9.6	1.4	5.5	+0.1	17.2	26	-5.0	16	-	-	2.38	106	.39	20	19	10	3	0	0	0	0	-	10	11	0	-	-
	Dinnet	9 9	580	10.9	2.2	6.5	-	17.8	26	-3.3	16	6.1	-	2.12	-	.40	20	14	13	1	0	0	0	0	1	8	14	0	-	-
	Huntly	9 9	405	10.9	3.0	6.9	-	19.5	26	-2.6	9	-	-	1.33	-	.38	17	18	12	1	0	1	0	0	0	5	9	0	-	-
	Fyvie Castle	9 9	218	10.9	2.7	6.8	-	17.8	26	-3.9	9	-																		



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average				
				A Max.	B Min.		Mean of A and B	Maximum	Date			Minimum	Date		-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more												Amount	Date		
				Max.	Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%		
<b>1 SCOTLAND, E.—cont.</b>																															
Midlothian	Balerno ...	9 9	700	9.7	3.2	6.5	-	15.6	27	-1.7	12, 13	-	-	2.83	-	.41	10	15	15	2	-	0	0	0	3	2	9	0	3.60	77	
	Turnhouse ...	21-9	114	10.9	4.2	7.5	+0.2	17.4	26	-1.1	12	-	-	2.13	134	.45	10	19	13	1	0	2	2	1	0	1	8	1	4.05	-	
	Edinburgh—E. Craigs	9 9	200	10.7	4.3	7.5	-	17.2	26	-1.1	13	-	-	2.25	-	.46	10	17	14	2	0	1	0	0	0	2	8	0	3.94	-	
	Davidson's Mains	9 9	200	10.7	4.2	7.5	-0.1	17.2	26	-1.1	13	-	-	2.53	-	.54	10	19	16	1	0	3	0	0	0	2	8	0	3.99	- S	
	Penicuik ...	9 9	620	10.3	3.0	6.7	-	16.7	26	-1.1	13	6.7	-	2.90	-	.44	5	20	15	3	1	0	0	0	2	3	16	0	3.92	-	
	Bush House ...	9 9	605	9.9	3.1	6.5	-	15.1	26, 28	-1.7	13	6.0	4.9	2.66	-	.42	10	20	15	1	0	1	0	0	0	2	-	0	4.22	-	
	Edinburgh—																														
	Blackford Hill §§	9 9	441	10.6	4.2	7.4	-0.1	17.2	26	-1.1	13	-	-	2.21	136	.39	10	18	11	1	0	0	3	0	0	2	9	0	3.55	73	
	Liberton ...	9 9	200	10.7	4.3	7.5	-0.1	17.2	26	-1.1	13	-	-	2.48	-	.40	10	20	16	4	0	0	0	0	0	1	4	0	3.55	-	
	Royal Bot. Gdns.	9 9	74	10.7	4.4	7.5	-0.2	17.2	26	-1.1	13	7.0	-	2.23	-	.46	10	19	14	2	0	2	0	0	0	1	11	0	4.03	83	
E. Lothian	Haddington ...	9 9	162	11.1	4.4	7.7	-	17.2	26, 28	0.0	8, 12	-	-	1.51	-	.31	14	21	10	1	0	0	2	1	0	1	9	0	3.93	-	
	North Berwick ...	9 9	51	10.9	4.4	7.7	-	(16.1)	28	0.6	12	-	-	1.56	107	.32	10	15	11	1	0	0	0	0	0	0	0	2	0	3.70	-
	Dunbar ...	9 9	75	9.9	4.7	7.3	-0.1	15.6	28	0.6	12	-	-	1.24	-	.33	14	15	8	1	0	0	0	1	0	0	2	0	5.29	100	
Berwick	Mertoun ...	9 9	225	11.1	3.6	7.3	-	17.8	28	0.0	12, 13	-	-	2.20	-	.67	5	20	12	-	-	-	-	-	0	13	-	4.59	-		
	Lauder ...	9 9	600	10.5	2.7	6.6	-	17.2	28	-1.1	12	-	-	2.80	-	.50	17	19	15	2	0	0	0	1	0	2	16	0	4.68	-	
	Marchmont §§	9 9	498	10.0	3.2	6.6	-0.3	17.2	28	-1.1	12	-	-	2.28	122	.50	14	23	12	6	0	0	0	1	0	1	-	0	4.77	101 S	
Peebles	St. Abb's Head ...	9 9	245	9.0	3.9	6.5	-	16.0	26	0.0	13	-	-	1.29	-	.39	14	13	8	1	0	1	0	0	3	0	2	0	-	-	
	Stanhope Farm ...	9 9	741	10.1	3.2	6.7	-	16.1	23, 28	-2.2	12	-	-	3.92	-	.59	20	21	17	4	1	0	0	0	1	2	20	0	-	-	
	Blyth Bridge ...	9 9	830	9.6	3.1	6.3	-	15.0	26, 28	-1.7	12	-	-	3.03	-	.52	17	19	15	4	1	1	2	0	0	3	9	0	3.71	-	
Selkirk	West Linton ...	9 9	800	9.9	2.3	6.1	-	15.6	26, 28	-2.2	12	5.7	4.7	3.50	-	.45	5	24	16	4	1	2	0	0	0	3	7	0	-	-	
	Glenstress ...	9 9	580	10.6	3.1	6.9	-	16.7	28	-2.2	12	-	-	3.42	-	.51	17	23	17	4	1	1	0	0	0	2	-	0	-	-	
	Bowhill ...	9 9	600	10.4	3.0	6.7	-	16.7	28	-1.1	12, 20	-	-	3.06	-	.54	5	22	17	3	0	0	0	1	0	2	-	0	-	-	
Roxburgh	Wauchope ...	9 9	560	10.6	3.0	6.8	-	16.1	29	-0.6	3, 4, 20	-	-	2.86	-	.51	4	17	13	-	-	-	-	5	3	-	-	-	-	-	
	Sourhope ...	9 9	900	9.6	3.2	6.4	-	15.6	28	-1.1	12	-	-	2.46	-	.81	5	18	14	-	-	-	-	1	2	17	-	4.63	-		
<b>6a SCOTLAND, W.</b>																															
Argyll	Tiree ... §§	21-9	29	10.3	4.4	7.3	-0.5	13.0	25	-1.3	12	-	-	1.71	66	.29	21	19	11	3	0	1	3	0	1	5	8	2	5.44	95	
	Rhuvaal ...	21-9	65	10.2	5.2	7.7	-	14.2	23	0.3	12	-	-	4.17	-	.68	21	19	15	2	0	1	0	0	0	0	2	4	-	-	
	Colonsay ...	9 9	87	10.5	3.9	7.2	-0.5	14.4	23, 26	-1.1	13	-	-	3.38	112	.46	20	20	14	2	-	2	0	0	2	1	-	2	-	-	
	Tobermory ...	9 9	270	10.3	4.2	7.3	-	15.6	26	-1.7	12	-	-	3.99	-	.89	21	16	13	-	-	-	-	-	2	9	-	-	-	-	
	Campbeltown ...	9 9	10	10.6	4.7	7.7	-	13.9	28	1.1	4	-	-	1.72	-	.37	23	18	14	-	0	-	-	-	-	0	-	-	4.39	-	
	Achaglachgach ...	9 9	40	11.4	3.2	7.3	-	15.6	23, 24	-2.8	4	-	-	4.07	-	.58	20	22	16	3	-	1	0	0	0	5	16	0	-	-	
	Oban ...	9 9	229	10.2	2.9	6.5	-	15.0	23	-1.7	12	-	-	3.99	121	.78	21	19	15	1	0	0	0	0	0	3	10	0	3.89	82	
	Lepinmore ...	9 9	30	11.2	4.0	7.6	-	15.6	23, 26	-0.6	4	-	-	4.33	-	1.23	21	18	15	2	0	1	0	0	0	1	14	0	3.98	-	
	Glenbranter ...	9 9	120	11.0	2.9	6.9	-0.4	15.6	23, 27	-2.8	4	-	-	7.50	126	2.09	21	20	16	-	-	-	-	0	6	13	-	-	-	-	
	Benmore ...																														
	Forestry Sch. ...	9 9	46	11.0	2.7	6.9	-0.7	15.0	23, 26	-2.2	4	6.7	5.6	5.07	91	1.23	21	20	18	1	1	1	0	0	3	7	13	0	-	-	
Bute	Younger Bot. Gdns.	9 9	40	11.1	3.8	7.5	-	15.6	23, 26	-1.1	4	-	-	5.25	-	1.29	21	23	17	1	1	0	1	0	0	3	12	0	-	-	
	Rothsay §§	9 9	150	10.9	4.2	7.5	-0.3	15.0	23, 26	-0.6	5, 12, 13	6.9	5.9	3.09	94	.75	21	18	17	2	0	0	0	0	0	3	10	0	3.87	80	
	Millport ...	9 9	16																												
Dunbarton	Helensburgh ...	9 9	293	10.7	3.7	7.2	-0.2	15.0	23, 26	-1.1	12	-	-	2.93	90	.48	21	21	15	0	0	0	0	0	0	3	-	0	-	-	
	Cumbarauld ...	9 9	310	10.6	3.5	7.1	-	16.7	26	-1.1	12	-	-	2.64	-	.83	17	22	15	1	0	1	0	0	0	3	9	0	-	-	
Stirling	Earls Hill ...	9 9	1100	7.8	2.0	4.9	-	14.0	28	-3.0	12	-	-	3.74	-	1.05	17	19	14	-	-	-	-	-	3	3	11	-	3.81	-	
	Stirling ...	9 9	151	11.3	4.3	7.8	-0.3	17.2	26, 28	-1.1	12	7.4	4.9	2.32	107	.66	17	20	15	2	1	0	1	0	0	2	8	0	4.16	-	
	Falkirk ...	9 9	100	11.2	3.8	7.5	-0.4	16.7	26	-1.1	12	-	-	2.11	-	.60	17	18	16	-	-	-	-	-	1	-	-	-	-	-	
Renfrew	Greenock ...	9 9	200	10.7	4.4	7.5	-0.5	15.0	23, 26	-0.6	12, 13	-	-	3.50	99	.89	21	20	14	2	0	2	0	0	0	2	9	0	4.18	-	
	Paisley ...	9 9	106	11.6	4.8	8.2	-0.1	17.2	23	-0.6	13	7.2	6.0	2.42	98	.52	17	22	16	1	1	2	1	0	0	1	8	0	3.69	80	
	Barrhead ...	9 9	97	11.1	4.0	7.5	-	16.7	23	-1.1	13	-	-	2.30	-	.46	17	20	13	1	0	1	0	0	0	1	7	0	-	-	
Lanark	Renfrew §§	21-9	26	11.3	4.7	8.0	+0.2	15.9	23	-0.6	4, 12	-	-	1.97	85	.51	17	21	12	2	0	2	0	0	0	2	6	0	4.06	86	
	Crossmyloof ...	9 9	75	11.2	4.6	7.9	-	17.2	23	-1.1	13	-	-	2.09	-	.51	17	22	15	1	0	2	0	0	0	1	6	0	4.01	-	
Lanark	Thorntonhall ...	9 9	453	10.3	3.5	6.9	-	16.7	23	-1.7	13	-	-	2.62	-	.60	17	18	17	1	0	0	0	0	-						



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE						
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day		Precip'n	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st below 0° C	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average					
			A	B		Maximum	Date	Minimum	Date					Amount	Date												-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more			
			°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%			
2 ENGLAND, N.E.—cont.																															
Northumb- erland cont.	Haydon Bridge	9 9	270																												
	Corbridge	9 9	160	11.1	3.3	7.2		16.7	28	-1.7	8			1.96		.75	5	15	12	1	0	2	0	2	3	10	0				
	Berwick-on-Tweed	9 9	76	9.6	4.3	6.9	-0.5	16.1	28	0.6	13			1.55	115	.34	14	19	11	1	0	0	2	0	0		4.98	95			
	Ponteland	9 9	220																												
	Cockle Park	9 9	326	10.0	3.5	6.7	-0.2	17.2	28	-0.6	8	6.2		1.64	85	.28	5, 17	17	13	1	0	0	2	0	1	7	0	4.11	84		
Durham	Acklington	21-9	138	10.2	3.4	6.8		18.7	28	-0.7	1			1.35		.30	17	15	13	3	0	1	2	1	2	9	0	5.19			
	Tynemouth	21-9	95	9.3	4.9	7.1	-0.6	16.9	28	1.2	12			1.70	105	.27	17	15	12	1	0	1	0	0	2	0	4	1	4.50		
	Chopwellwood	9 9	446	10.9	3.7	7.3	-0.1	16.7	28	-0.6	8			2.12	114	.49	4	15	13	3	0	0	0	0	0	2	11	0			
	Ushaw College	9 9	594	10.5	3.4	6.9	-0.3	18.3	28	-0.6	12			1.85	98	.42	17	15	12	3	0	0	0	0	4	1		0			
	Houghall	9 9	123	11.4	3.3	7.3	-0.2	19.4	28	-0.6	1, 23			1.35	104	.42	17	17	14	3	0	1	0	0	0	2	11	0	4.20	92	
Yorks., N. Riding	Durham	9 9	336	11.4	4.3	7.9	+0.5	18.3	28	1.1	1, 8, 12	7.1	5.9	1.64	96	.35	17	15	12								0	11		4.19	91
	Gateshead	9 9	509	10.2	4.2	7.2		16.7	28	0.6	12			1.71		.27	17	16	12					2	0	5		4.04			
	Middleton St. George	21-9	115	11.3	4.1	7.7		17.9	28	1.0	5, 12, 13			1.34		.28	4	16	13	2	0	0	0	0	1	0	10	0	4.02		
	West Hartlepool	9 9	30	10.8	4.6	7.7		17.2	28	1.1	5, 12			1.15		.29	4	13	10	1	0	1	0	0	1	0	3	0	4.02		
	Dishforth	21-9	105	11.6	4.2	7.9		17.4	28	-0.5	13			1.74	105	.31	10	17	11	2	0	1	0	0	0	2	7	0	4.08		
Yorks., E. Riding	Thirsk	9 9	111	11.6	3.9	7.7		16.7	19, 23, 28	-0.6	8, 13			1.71		.36	10	16	12	2	0	0	0	0	0	2	11	0			
	York	9 9	57	11.5	4.7	8.1	-0.5	17.2	23, 28	0.6	13	7.2	6.0	1.74	102	.29	17	19	15	1	0	2	0	1	0	0		3.73	79		
	Ampleforth	9 9	313	10.7	3.8	7.3	-0.4	16.1	28	-0.6	13			1.75	88	.21	17	16	13					1	1	9					
	Redcar	9 9	25	11.1	5.0	8.1		16.7	28	1.7	12			1.08	75	.25	4	17	8									4.07			
	Whitby	9 9	135	10.7	4.4	7.5		18.9	28	0.6	13			1.17	73	.20	10	15	11	1	0	0	0	0	2	0		4.21	84		
Yorks., E. Riding	Scarborough	9 9	118	10.5	4.7	7.6	-0.9	16.1	28	1.1	13	7.3	6.9	1.61	91	.46	10	15	11	1	0	0	0	0	1	0	0	0	3.29	65	
	Silpho Moor	9 9	665	9.6	2.9	6.3		17.2	28	-1.1	1, 13	5.6		1.90		.34	14	20	11	2	0	0	0	0	5	4	14	0	3.48		
	Fylingdales Moor	9 9	805																												
	Whitby C/Guard	21-9	200	10.1	4.2	7.1		17.6	28	0.0	13			1.04		.18	10	14	10	2	0	0	0	1	1	0	8	1			
	High Mowthorpe	9 9	574	9.8	3.4	6.6		16.1	28	-0.6	1, 13	5.6		2.18	115	.33	17	18	13	2	0	0	0	0	2	3	8	0	3.27		
Lincoln	Hull	9 9	8	11.4	4.7	8.1	-0.6	17.8	27	1.1	1, 4	7.3	5.6	2.37	130	.31	27	18	13	1	0	0	0	1	0	0	5	0	3.50	74	
	Leconfield	21-9	24	11.0	4.1	7.5		16.7	28	-2.9	1			2.33		.38	11	17	15	3	0	0	1	1	0	2	10	0	3.65		
	Filey	9 9	122	9.9	4.0	6.9		17.2	28	-0.6	13			1.50		.28	10	16	11	1	0	0	0	1	1	4	0	3.22			
	Bridlington	9 9	157	9.8	3.8	6.8		16.1	28	0.0	4, 13			1.75		.32	10	20	12	2	0	0	0	2	1	0	12	0	3.63		
	Spurn Head	21-9	29	9.3	4.9	7.1	-1.0	16.3	27	1.0	4			2.40		.65	11	17	11	1	0	0	0	3	2	0		3.68	69		
Lincoln	Gainsborough	9 9	110	12.3	4.1	8.2		17.8	27	-1.7	12			1.61		.29	11	16	10					2	3						
	Navenby	9 9	60	12.2	4.1	8.1		18.3	23	-0.6	4			2.17		.38	5	17	15	2	0	2	0	1	1	2	11	0			
	Waddington	21-9	224	11.8	4.3	8.1	-0.2	17.4	27	-1.0	1			1.86		.33	11	16	13	2	0	1	1	2	1	1	6	1	4.00		
	Lincoln	9 9	22	12.2	4.2	8.2		17.8	27, 28	-1.7	4	7.1	5.7	1.89		.29	11	18	12	2	0	0	0	1	1	7	0	3.70			
	Cranwell	9 9	205	12.1	3.8	7.9	-0.3	17.6	27	-2.4	1	7.3	6.3	1.98	119	.32	4	15	14	2	0	1	1	1	2	10	0	3.93	75		
Suffolk	Clethorpes	9 9	23	11.7	4.2	7.9	-0.5	18.3	27	0.0	1, 13			1.65	97	.27	11	18	16	2	0	0	0	1	1	2	2	0	3.79	72	
	Manby	21-9	55	11.6	4.0	7.8		18.5	27	-1.4	1			2.35		.52	11	17	15	2	0	0	1	2	1	5	0	3.98			
	Skegness	9 9	15	10.9	4.8	7.9	-0.2	18.9	27	1.1	4, 13			1.81	113	.33	15	16	14	0	0	0	0	1	0	5	0	4.17	77		
	3 ENGLAND, E.																														
	Norfolk	Terrington	9 9	13	12.5	4.7	8.6		18.9	27	0.0	1, 13	7.6		1.83	123	.33	18	17	13	0	0	0	0	0	2	4	0	4.60		
St. Clement		9 9	76	12.7	4.3	8.5		18.8	27	-2.7	1			1.75		.30	14	19	12	1	0	0	0	0	2	5	0				
Marham		21-9	76	12.7	4.3	8.5		18.8	27	-2.7	1			1.75		.30	14	19	12	1	0	0	0	0	2	5	0				
Santon Downham		9 9	80	13.6	3.3	8.5		20.6	27	-4.4	27	7.1	5.7	1.90		.25	30	18	15					0	6	16					
West Raynham		21-9	250	12.1	4.2	8.1		18.3	27	-1.0	1			2.05		.51	14	16	14	3	0	1	0	1	1	3	10	0	4.63		
Suffolk	Cromer	9 9	178	11.3	4.4	7.9	-0.4	20.0	27	0.0	1, 13			1.86	99	.29	14	13	11					0	0	6		4.98	92		
	Sprowston	9 9	93	12.3	4.1	8.2	-0.1	19.4	27	-2.8	1	7.5		1.89	105	.23	15	18	14	1	0	0	2	0	1	3	11	0	4.75	89	
	Burlingham	9 9	89	11.3	4.2	8.1		19.4	27	-1.1	1			1.80	102	.30	15	15	13	1	0	0	1	0	1	1	6	0	5.02		
	Gorleston	9 9	12	9.6	4.7	7.1	-1.0	15.8	28	0.0	5	8.1	6.9	2.89	181	.77	4	16	13	1	1	1	0	1	1	0	6	1	5.09	92	
	Mildenhall	21-9	15	13.4	5.2	9.3		20.0	27	-1.0	1			1.63	95	.33	30	17	11	1	0	1	0	0	1	2	7	0	4.70	88	
Suffolk	East Bergholt	9 9	14	12.8	4.2	8.5		17.2	27, 28	-3.9	1			2.05		.30	20	17	13	0	0	0	0	1	1	4	12	0			
	Wattisham	21-9	292	12.2	4.3	8.3		17.7	27	-1.4	1			2.58																	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day	Precip'n				Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average						
				A Max.	B Min.		Mean Temperature of A and B	Maximum	Date						Minimum	Date	0.1in. (0.4mm.) or more	0.01in. (0.2mm.) or more								Snow or Sleet	Snow lying at 9h.				
		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%				
4 MIDLAND COUNTIES—cont.																															
Yorks.,	Huddersfield	9 9	325	11.1	4.3	7.7	-0.2	16.7	23,26	1.1	8,12,19	6.7	5.7	1.94	-	.55	5	18	13	-	0	-	-	-	2	0	11	-	2.86	72	
W. Riding—	Oakes	21-9	761	10.0	3.9	6.9	-0.6	16.1	28	0.0	8,12	6.1	5.4	2.55	102	.53	14	19	15	3	0	1	0	1	4	0	8	2	3.50	-	
cont.	Bradford	9 9	439	10.4	4.4	7.4	-0.3	16.1	23	1.1	5,7	6.3	4.8	2.25	97	.54	17	17	15	3	0	1	2	0	1	0	10	0	-	-	
	Ilkley	9 9	315	10.9	3.9	7.4	-0.4	16.7	23	0.6	12,19	-	-	2.77	108	.74	13	13	10	-	0	-	-	-	2	0	-	-	3.31	72	
	Sheffield	9 9	429	11.7	4.3	8.0	-0.4	17.2	23,28	0.0	13	7.3	5.6	2.37	113	.36	5	18	12	3	0	0	0	0	0	0	13	0	2.65	61	
	Wakefield	9 9	121	12.0	4.3	8.1	-0.5	17.8	28	0.0	13	6.4	5.5	1.49	82	.32	17	15	11	2	0	1	0	0	0	0	15	0	-	-	
	Pontefract	9 9	255	11.3	4.3	7.8	-0.3	16.1	23,28	-0.6	13	-	-	1.27	76	.25	17	15	12	2	0	1	0	0	0	4	1	3	0	-	-
	Bramham	9 9	177	11.2	3.6	7.4	-	16.7	23,28	-0.6	7	-	-	1.35	78	.34	17	15	12	1	0	0	1	0	0	2	8	0	3.77	-	
	Cawood	9 9	20	11.3	3.8	7.5	-	16.7	23,28	-0.6	19	6.9	5.6	1.40	82	.29	17	16	12	1	0	1	0	0	0	0	1	7	0	3.67	-
	Askham Bryan	9 9	110	11.2	4.0	7.6	-	17.2	28	0.0	13	-	-	1.65	91	.34	17	18	13	-	0	-	-	-	1	0	7	-	3.33	71	
Derby	Buxton	9 9	1007	9.9	3.1	6.5	0.0	14.4	23	-1.7	13	6.0	4.9	3.47	104	.58	14	20	17	4	1	0	0	0	0	18	4	8	0	-	-
	Chapel en le Frith	9 9	732	10.7	3.8	7.3	-	16.7	22	-1.7	4	-	-	3.23	-	.67	14	18	13	4	0	1	0	0	0	3	3	11	0	-	-
	Mackworth	9 9	293	11.8	4.2	8.0	-	17.2	28	-1.1	1	-	-	1.97	-	.31	11	17	14	1	0	0	0	1	0	2	5	0	-	-	
	Belper	9 9	203	12.5	3.8	8.1	-0.1	17.8	23	0.0	1	-	-	2.44	124	.39	17	17	14	1	0	1	0	0	0	1	-	0	-	-	-
	Derby	9 9	159	12.4	4.9	8.7	-	17.8	23,28	1.1	12	-	-	2.35	-	.40	11	17	12	1	0	0	0	0	0	0	4	0	3.58	-	
	Morley	9 9	350	11.6	4.2	7.9	-	16.7	23,27,28	0.0	4,12	-	-	2.18	115	.40	11	17	13	0	0	0	0	0	0	0	10	0	3.53	-	
	Chesterfield	9 9	298	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nottingham	Sutton Bonington	9 9	157	12.2	4.4	8.3	0.0	17.8	28	0.6	12,13	7.0	6.0	1.73	103	.21	4	17	12	2	0	1	0	1	1	0	14	0	3.82	81	
	Watnall	21-9	385	12.0	4.3	8.1	-	17.6	23	0.2	12	-	-	2.04	106	.30	11	15	12	3	0	4	1	0	2	0	10	0	3.56	-	
	Mansfield	9 9	362	11.4	4.3	7.9	-0.3	16.7	28	0.6	13	7.3	-	2.48	125	.35	5,11	15	13	3	0	0	0	0	0	2	0	7	0	-	-
	Nottingham	9 9	192	12.4	4.8	8.6	-0.1	17.2	28	0.6	13	7.2	5.1	1.88	105	.27	11	15	12	0	0	0	0	1	1	0	4	0	3.14	73	
	Warsop	9 9	150	12.1	3.7	7.9	-	17.2	28	-1.7	13	-	-	2.14	135	.38	5	14	12	-	0	-	-	-	-	1	3	13	-	3.50	-
	Finningley	21-9	34	12.3	4.7	8.5	-	18.0	23	-0.4	1	-	-	1.74	-	.29	11	16	12	3	0	3	0	1	0	1	7	0	3.65	-	
Leicester	Newtown Linford	9 9	392	12.3	3.8	8.1	-	17.2	23	-0.6	13	-	-	2.25	-	.29	4	17	13	2	0	3	0	0	0	2	1	12	0	3.77	-
	Bugbrooke Mills	9 9	228	12.7	-	-	-	18.3	23,28	0.6	1,9,13	-	-	1.85	-	.28	30	19	16	0	0	0	0	0	0	1	0	-	-	-	-
	Caldecott	9 9	175	13.1	3.8	8.5	-	18.9	28	-1.7	1	-	-	1.62	-	.17	4,30	15	13	-	0	-	-	-	-	0	2	9	-	3.84	-
Northampton	Raunds	9 9	193	13.0	3.1	8.1	-	18.9	27	-1.1	1	8.1	6.1	1.59	92	.25	11	18	13	2	0	1	0	2	0	2	12	0	3.65	-	
	Wittering	21-9	212	12.4	4.2	8.3	-	17.8	27	-1.4	1	-	-	2.24	-	.37	15	17	15	2	1	1	0	2	1	2	13	0	4.02	-	
Warwick	Birmingham K.E.S.*	9 9	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Edgbaston	21-9	536	11.9	5.1	8.5	0.0	17.4	23	0.6	12	6.6	6.6	2.46	107	.34	30	17	16	2	0	2	0	1	4	0	5	0	3.31	71	
	Luddington	9 9	138	12.9	4.8	8.9	-	17.2	23,28	-0.6	1	-	-	1.75	97	.28	11	17	13	1	0	0	0	1	1	2	7	0	3.58	-	
	Stratford on Avon	9 9	160	13.0	4.5	8.7	-	18.3	23	-1.1	13	8.4	-	1.97	129	.28	11	17	13	1	0	0	1	0	1	2	12	0	3.54	-	
	Elmdon	21-9	319	12.3	4.5	8.4	-	17.2	23	-0.2	19	-	-	2.34	118	.35	17	17	15	2	0	2	0	1	2	1	9	0	3.75	-	
	Shipston on Stour	9 9	365	12.6	4.7	8.7	-	17.8	23,28	-0.6	13	7.2	-	2.47	-	.34	3	17	15	2	0	0	0	0	0	2	14	-	3.87	-	
	Wellesbourne	9 9	153	12.7	4.5	8.6	-	17.8	23	-0.6	13	7.7	6.6	1.93	102	.45	3	20	14	1	0	0	1	0	0	1	11	0	3.53	-	
	Moreton Morrell	9 9	280	4.7	-	-	-	17.8	23	0.6	12,13	-	-	2.06	-	.38	3	19	16	2	0	0	0	0	0	1	0	11	1	3.67	-
	Rugby	9 9	385	12.2	4.5	8.3	+0.1	17.8	28	0.6	5,12,13	8.1	6.6	2.02	-	.38	30	18	11	2	0	1	0	0	0	0	6	0	3.78	-	
Oxford	Oxford	9 9	208	13.2	5.7	9.5	+0.4	18.3	28	1.1	12	8.7	7.3	1.98	104	.23	11	20	16	2	0	0	0	0	0	1	0	4	0	3.97	75
	Grendon Underwood	9 9	220	13.3	4.2	8.7	-	18.3	28	-3.3	1	7.7	6.4	1.97	-	.18	11	19	17	0	0	0	0	0	0	2	8	0	4.10	-	
Buckingham	Medmenham	9 9	98	13.9	4.1	9.0	-	19.4	27,28	-5.0	13	-	-	2.15	-	.37	30	17	15	-	-	-	-	-	-	3	13	-	-	-	
	Aylesbury	9 9	316	10.3	4.6	7.5	-	17.8	27,28	-1.1	1	-	-	1.93	99	.26	30	18	15	1	0	1	0	1	2	2	8	0	4.47	-	
Stafford	Keele	9 9	587	11.3	4.4	7.9	-	16.7	23	-0.6	12,13	6.8	5.3	1.58	78	.31	30	16	12	4	0	0	0	0	2	2	4	0	3.58	-	
	Oaken	9 9	409	-	-	-	-	17.8	28	-0.6	13	7.4	-	-	-	.32	11	-	-	-	-	-	-	-	-	2	7	-	-	-	
	Stone	9 9	350	12.0	4.5	8.3	-	17.2	23	-1.1	13	-	-	1.68	-	.34	17	16	10	0	0	0	0	0	0	2	12	0	3.58	-	
	Penkridge	9 9	330	12.0	4.4	8.2																									



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE		
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day	Precip'n (0.2mm. or more)	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1° below 0° C	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average
			A Max.	B Min.			Maximum	Date	Minimum	Date																	
			°C.	°C.			°C.	°C.	°C.	°C.																	
5 ENGLAND, S.E.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%
Surrey —cont.																											
Kent																											
Sussex																											
Berkshire																											
Hampshire																											
I. of Wight																											
Wiltshire																											
7a ENGLAND, N.W.																											
Cumberland																											
Westmorland																											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE			
			Means of		Mean Temperature of Air and Surface	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Glass min. below 0° C	Gale	Daily Mean	Percentage of Average			
			A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.																-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more	
																														°C.
7a ENGLAND, N.W.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%			
Westmorland Great Dun Fell	21-9	2780	4.0	-0.1	1.9	-	9.8	23	-5.5	8	-	-	-	-	-	-	-	-	-	-	-	23	15	-	-	2.00	-			
—cont. Moor House	9 9	1825	6.8	0.9	3.9	-	12.8	23	-3.3	12	3.6	-	6.22	-	1.20	14	25	21	6	-	-	7	13	18	-	3.16	-			
Lancashire Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Squires Gate	21-9	33	11.7	5.0	8.3	-	18.8	23	0.8	7	-	-	2.48	135	.57	17	19	14	3	0	0	2	0	0	7	1	4.79	84		
Urswick	9 9	130	11.5	4.6	8.1	-	17.8	23	0.0	4	-	-	3.23	-	.70	14	18	14	1	0	0	0	0	0	5	1	-	-		
Southport	9 9	16	11.4	4.7	8.1	-	17.8	23	0.6	4, 7, 12	8.4	7.1	2.22	-	.68	17	18	11	-	-	-	-	-	-	0	5	-	4.42		
Poulton-le-Fylde	9 9	38	-	5.0	-	-	17.8	23	1.1	12	-	-	2.87	-	.63	17	23	16	0	0	0	0	0	0	0	-	-	-		
Grizedale	9 9	300	11.0	3.8	7.4	-	16.1	23	-2.2	4	6.4	-	5.89	-	1.80	14	20	19	1	0	0	0	0	3	1	11	0	-		
Speke	21-9	80	12.2	5.7	8.9	-	18.0	23	1.4	12	-	-	1.98	116	.54	17	18	12	2	0	1	1	0	0	0	1	1	3.40	-	
Kirkham	9 9	78	11.7	4.8	8.3	-	17.8	23	0.0	13	-	-	3.07	150	.63	17	21	11	0	0	1	0	0	0	10	0	4.06	-		
Garstang	9 9	68	11.6	5.3	8.5	-	16.7	23	-0.6	4	-	-	3.42	-	.69	14	17	13	-	0	-	-	-	0	1	6	-	4.24	-	
Morecambe	9 9	24	11.0	5.4	8.2	-0.1	18.3	23	0.6	12	-	-	3.66	178	.87	14	20	14	0	0	0	0	0	0	0	-	0	4.16	75	
Preston	9 9	108	11.6	5.3	8.5	-	17.2	23	0.0	4	-	-	3.50	158	.65	17	22	13	2	0	1	1	0	1	1	6	0	-	-	
Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Stonyhurst	9 9	377	10.8	4.6	7.7	0.0	16.7	23	0.6	4, 12, 13	-	-	4.03	150	.65	14	19	14	-	1	-	-	-	3	0	5	-	3.61	76	
Manchester W. Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	3.17	-		
Helmshore	9 9	854	10.1	3.8	6.9	-	15.0	23	-1.1	8, 13	6.3	-	4.71	127	1.05	14	23	16	-	0	-	-	-	4	4	8	-	3.27	-	
Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Burnley	9 9	655	10.2	3.9	7.1	-	15.1	23	-0.6	4	6.3	5.7	4.33	-	.52	14	20	19	0	0	1	0	1	2	2	13	0	2.88	-	
Nelson	9 9	540	10.3	3.9	7.1	-	16.1	23	-0.6	12	-	5.4	4.00	149	.68	13	20	16	-	0	-	-	-	2	2	12	-	3.25	- 5	
Rochdale	9 9	362	10.9	4.3	7.6	-	15.7	23	-1.1	13	-	-	3.36	-	.71	14	20	12	2	0	0	0	0	0	3	2	1	2.92	-	
Cheshire West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bidston Obs'y.	9 9	198	11.2	5.7	8.5	+0.2	16.7	23	1.1	12	-	-	1.90	112	.60	17	20	11	-	-	-	-	-	0	0	2	-	4.17	79	
Winnington	9 9	65	12.7	5.9	9.3	-	17.8	23	1.1	12	-	-	1.99	106	.37	17	17	13	1	0	0	1	0	0	0	4	3	-	-	
Knutsford	9 9	212	12.4	4.9	8.7	-	18.3	23	0.0	4, 12	7.6	6.0	2.04	-	.42	17	19	12	-	0	-	-	-	0	2	9	-	-	-	
Ringway	21-9	248	11.8	5.2	8.5	+0.4	17.5	23	0.5	12	-	-	1.96	104	.33	14	17	13	2	0	1	0	0	1	0	2	1	3.37	73	
Macclesfield	9 9	500	11.2	3.9	7.5	-0.4	16.7	23	-1.1	12	-	-	2.16	89	.43	14	19	12	3	1	2	0	0	2	3	-	0	-	-	
7b NORTH WALES																														
Flint Rhyl	9 9	31	11.6	6.1	8.9	+0.3	17.2	23	1.7	12	-	-	2.24	142	.41	5	19	13	1	0	0	1	0	0	0	0	0	3.83	71	
Prestatyn	9 9	12	11.7	5.7	8.7	-	17.8	23	1.1	12	-	-	2.32	137	.47	17	18	12	0	0	0	0	0	0	0	0	-	0	3.20	62
Hawarden Bridge	9 9	17	12.6	5.7	9.1	+0.2	18.3	28	1.1	13	-	-	2.11	120	.48	17	19	11	1	0	0	0	0	0	0	0	-	-	-	
Anglesey Valley	21-9	26	10.8	5.5	8.1	-0.4	17.3	23	2.2	12	-	-	3.01	159	.89	10	20	13	1	0	1	0	0	1	0	1	1	4.36	73	
Denbigh Alwen	9 9	1100	9.3	2.6	5.9	-	14.4	23	-1.7	12	-	-	4.03	-	.74	21	24	18	-	-	-	-	-	-	-	-	-	-	-	
Ruthin	9 9	248	11.7	4.9	8.3	-	16.7	23, 28	1.1	3, 12	-	-	2.31	-	.38	23	21	13	-	0	-	-	-	1	0	-	-	-	-	
Loggerheads	9 9	690	10.9	4.2	7.5	-	15.6	23, 28	-0.6	4	7.0	6.3	2.86	-	.53	17	22	15	3	0	2	0	0	1	2	6	0	-	-	
Bwlchgwyn	9 9	1267	9.4	3.1	6.3	-	15.0	23, 26	-1.7	7, 12	5.7	-	3.54	-	.57	17	22	17	4	0	0	0	0	2	6	11	0	-	-	
Wrexham	9 9	275	12.4	4.5	8.5	-	17.8	25, 28	-1.1	5	7.4	6.1	2.26	-	.48	17	20	16	2	0	0	2	1	1	12	0	-	-	-	
Caernarvon Bardsey Island	21-9	60	9.4	5.3	7.3	-	12.7	16	2.2	1	-	-	3.26	-	.57	10	14	12	-	0	-	-	-	5	0	0	-	-	-	
Botwnnog	9 9	112	11.1	5.2	8.1	-	16.7	23	1.7	12	8.7	7.3	3.36	-	.66	30	20	15	0	0	0	0	1	3	0	2	1	4.70	-	
Bryn Adda	9 9	275	11.3	5.6	8.5	-	16.7	23	1.1	12	-	-	4.34	-	1.18	14	17	14	0	0	0	0	0	0	8	0	3.67	-		
Cwm Dyli	9 9	324	10.7	5.2	7.9	-	16.1	23, 28	1.7	6, 12	7.2	-	10.18	-	2.83	14	23	20	-	0	-	-	-	1	0	5	-	-	-	
Aber	9 9	60	11.9	5.9	8.9	+0.1	17.2	23, 28	1.1	12	-	-	4.47	192	.78	14	17	14	1	0	1	0	0	0	0	1	1	3.16	60	
Llandudno	9 9	13	11.1	6.3	8.7	-0.1	17.2	25	2.2	12	-	-	2.10	124	.29	21	16	13	0	0	0	0	0	0	0	-	0	4.21	75	
Merioneth Llyn Stwlan	9 9	1656	6.9	1.9	4.4	-	12.2	23	-1.1	6, 7	-	-	8.66	-	1.95	14	20	19	-	0	-	-	-	7	-	-	-	-	-	
Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	9.00	-	(2.00)	(14)	(15)	(15)	-	-	-	-	-	-	-	-	-	-	-	
Blaenau Ffestiniog	9 9	750	(9.6)	4.4	(7.0)	-	15.6	23	0.0	13	-	-	8.66	-	2.04	14	22	22	0	0	0	0	0	5	1	-	0	2.24	-	
Corwen	9 9																													



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER April 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE					
				Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average				
				A Max.	B Min.			Maximum	Date	Minimum	Date	40 in. (0.2mm.) or more	44 in. (1.0mm.) or more																				
8b ENGLAND, S.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%						
Somerset	Long Ashton ...	9 9	162	12.2	5.3	8.7	+0.1	17.8	23	1.1	12, 13	8.6	-	3.60	150	.61	14	21	18	1	0	2	0	0	2	0	10	0	3.38	63			
	Wincanton ...	9 9	375	12.2	5.0	8.6	-	17.8	23	-0.6	13	-	-	4.14	-	.63	24	20	19	1	0	1	0	0	6	1	7	0	-	-			
Dorset	Bath City Boys' School ...	9 9	388	11.8	5.1	8.5	-	17.2	23	1.1	12	-	-	3.87	-	.38	19	21	20	0	0	1	0	0	0	0	-	0	-	-			
	Bath ... §§	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
	Lyme Regis ...	9 9	200	12.1	5.5	8.8	-	16.1	24, 29	0.0	12	-	-	4.40	-	.67	19	20	16	0	0	0	0	0	1	1	3	3	3.72	- 5			
	Portland Bill ...	21-9	35	10.5	5.7	8.1	-0.6	16.0	25	2.1	5	-	-	2.86	182	.56	15	21	16	0	0	1	0	0	5	0	-	0	-	-			
	Weymouth ...	9 9	16	12.7	6.1	9.4	0.0	16.1	28	0.0	1	-	-	3.32	184	.55	19	20	15	-	-	-	-	2	1	-	-	-	4.21	67			
	Winfrith ...	9 9	85	12.3	5.4	8.9	-	17.2	23	-2.2	13	-	-	2.94	-	.50	14	18	17	-	0	-	-	-	0	3	4	-	-	-			
	Shaftesbury ...	9 9	680	11.1	4.7	7.9	-0.2	16.7	23	0.6	12	-	-	4.35	203	.58	23	21	19	-	0	-	-	-	6	0	-	-	-	-			
	Swanage ...	9 9	37	11.5	5.6	8.6	-	16.7	28, 29	-0.6	13	-	8.0	3.15	-	.64	15	18	14	0	-	0	0	7	0	4	0	4	0	4.05	65		
	Poole ...	9 9	18	13.3	5.2	9.3	-	17.8	28	-1.7	13	-	-	3.35	-	.72	15	18	16	0	0	0	0	0	0	2	-	0	3.37	55			
	Devon	Clawton ...	9 9	412	12.3	4.4	8.3	-	16.1	23, 25	-0.6	6	-	-	4.21	-	.89	30	23	17	0	0	0	0	0	1	1	-	2	-	-		
Cornwall	Hartland Point ...	21-9	298	10.3	6.0	8.1	-	16.2	23	0.5	19	-	-	3.22	-	.59	30	19	14	0	0	1	0	0	4	0	5	5	5.67	94			
	Mount Batten ...	21-9	87	11.7	6.5	9.1	-0.1	16.4	24	2.3	12	-	-	3.56	162	.86	19	19	14	1	0	0	2	0	0	0	3	0	4	0	4.82	79	
	Plymouth, The Hoe ...	9 9	119	12.1	6.5	9.3	-0.4	17.2	24	1.7	12	9.3	8.3	3.54	161	.79	19	20	16	0	0	1	0	0	3	0	4	1	5.02	82			
	Tavistock ...	9 9	457	12.6	5.2	8.9	+0.1	17.8	25	-0.6	12	-	8.3	4.58	-	.80	19	17	16	1	-	0	1	0	2	1	10	0	-	-			
	Chivenor ...	21-9	20	12.8	6.1	9.5	-	19.3	23	1.2	3	-	-	3.06	-	.50	28	20	15	1	0	0	1	0	1	0	2	1	5.11	-			
	Ilfracombe ...	9 9	25	11.2	6.3	8.7	-0.6	16.1	23	3.3	3	9.6	9.0	3.07	111	.58	14	18	14	0	0	0	0	0	0	0	1	0	4	0	4.99	83	
	Totnes ...	9 9	120	13.1	5.2	9.1	-	17.8	24	-2.2	13	9.1	7.6	4.98	168	.86	19	18	16	1	0	0	2	1	2	1	11	1	4	0	4.08	-	
	Slapton ...	9 9	104	11.6	6.1	8.9	-	16.1	29	0.6	13	-	-	4.73	-	.88	16	21	13	0	0	0	0	0	7	0	1	0	-	-	-		
	Newton Abbot ...	9 9	272	12.6	5.2	8.9	-0.1	17.8	28	0.6	12	-	-	4.42	178	.83	16	21	15	0	0	0	0	0	2	0	6	0	4	0	4.20	72	
	Paignton ...	9 9	8	12.8	6.1	9.5	-	18.3	28	1.1	12	-	-	3.72	148	.93	19	19	16	0	0	0	2	0	1	0	2	0	4	0	4.21	70	
	Torquay ...	9 9	26	13.1	6.3	9.7	+0.3	17.8	28	0.6	12	-	8.7	3.77	167	.82	19	19	14	0	0	0	1	0	3	0	4	2	4	0	4.15	66	
	Teignmouth §§	9 9	20	12.2	5.9	9.1	-0.4	15.6	30	1.7	12	-	-	4.07	191	.77	16	22	15	1	0	1	0	0	3	0	1	0	4	0	4.19	68	
	Starcross ...	9 9	29	12.4	5.9	9.1	-	16.1	24	1.7	13	9.2	-	-	4.31	190	.92	16	19	16	0	0	0	1	1	2	0	8	0	4	0	4.20	-
	Exeter, Southam ...	9 9	160	12.7	5.3	9.0	-	16.1	30	1.7	4, 13, 27	-	-	4.09	93	.93	16	21	15	0	0	0	1	0	1	0	-	0	-	-	-		
	Exmouth ...	9 9	195	12.6	5.6	9.1	+0.4	16.7	24, 28	1.7	4, 12	-	-	4.28	192	.97	16	20	15	0	0	2	0	0	3	0	-	0	4	0	4.04	68	
	Exeter ...	21-9	106	13.0	5.7	9.3	-	16.1	25	0.6	5	-	-	4.01	187	.88	16	20	15	0	0	3	1	0	0	12	0	0	3.90	-			
	Sidmouth ...	9 9	25	11.9	5.7	8.8	-0.2	16.1	24	0.6	13	-	-	3.65	-	.68	19	21	15	0	0	-	-	1	0	2	-	-	4.0	69			
NORTHERN IRELAND	St. Mary's, Scilly ...	21-9	158	11.8	7.2	9.5	-0.2	15.0	23	3.4	6	-	-	3.09	146	.75	19	22	14	0	0	0	2	5	0	-	2	5.85	91				
	Penzance ...	9 9	62	12.1	6.6	9.3	-0.6	16.1	25	2.8	6	-	-	3.23	129	.99	19	20	13	0	0	1	0	0	2	0	3	0	5.32	85			
	Gulval ...	9 9	50	11.7	6.4	9.1	-0.5	15.0	25	2.2	6	-	-	3.15	132	.88	19	22	12	0	0	0	0	3	0	1	0	5	0	5.21	85		
	Culdrose ...	9 9	268	11.1	5.7	8.4	-	14.4	25	1.1	6, 12	-	-	3.18	-	.77	19	15	12	1	0	0	0	1	4	0	4	1	5.19	-			
	Rosewarne ...	9 9	250	11.3	6.2	8.7	-	15.0	23	0.6	6	9.3	8.3	4.14	178	1.25	19	20	16	0	0	1	0	1	3	0	5	1	5.18	-			
	Lizard ...	9 9	240	11.0	6.0	8.5	-	16.1	25	1.8	6, 7	-	-	3.44	171	.75	19	20	15	1	-	0	2	0	-	-	5	0	5.20	-			
	Falmouth §§	9 9	167	11.8	6.2	9.0	-0.5	15.6	25	2.2	6, 12	-	-	3.87	148	1.01	19	15	14	0	0	0	0	0	0	5	0	4	0	4.97	81		
	Newquay ...	9 9	176	11.8	5.9	8.9	-0.2	15.6	23, 24	0.0	6	-	-	3.31	171	.77	19	19	14	0	-	0	0	0	-	0	-	0	5.45	90			
	St. Mawgan ...	21-9	337	11.4	5.8	8.6	-	15.1	23	1.2	6	-	-	3.85	-	.93	19	21	16	1	0	0	0	0	2	0	1	0	5.37	-			
	St. Austell ...	9 9	310	12.0	5.8	8.9	-	16.1	25	1.7	13	-	-	4.78	163	1.27	19	20	15	0	0	1	0	0	1	0	-	0	-	-	-		
	Fowey ...	9 9	51	12.2	6.7	9.5	-0.1	17.2	24	2.8	6, 12, 13	-	-	3.50	-	.63	19	17	15	1	0	0	0	0	4	0	-	0	-	-	-		
	Bude ...	9 9	50	11.9	5.6	8.7	-0.3	17.2	23	0.0	3	8.1	-	-	3.05	157	.56	30	19	16	-	-	-	-	-	-	-	5.36	88				
	Ellbridge ...	9 9	190	11.5	5.8	8.7	-0.4	16.7	25	0.6	12, 13	-	-	4.17	174	.83	19	19	17	0	0	0	0	1	0	6	0	4	0	4.90	81		
NORTHERN IRELAND																																	
Londonderry	Loughmore Forest ...	9 9	572	10.8	3.3	7.1	-	16.7	26	-4.4	12	-	-	2.79	-	.62	14	20	16	2	1	1	0	0	0	5	11	0	-	-	-		
	Ballykelly §§	21-9	3	11.7	5.1	8.4	+0.2	17.8	26	-2.0	8	-	-	1.67	75	.45	14	18	10	3	0	4	0	0	0	2	5	2	4.95	95			
Antrim	Derrynoyd Forest ...	9 9	292	11.7	3.6	7.7	-	17.8	26	-2.2	8, 12	-	-	3.41	-	.80	14	20	13	1	1	1	0	0	0	3	11	0	-	-	-		
	</																																



TABLE IV—SUMMARY OF OBSERVATIONS AT FIXED HOURS

April

1963

DISTRICT, COUNTY AND PLACE			Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
												0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-110 yd.	111-220 yd.	221-440 yd.	441-1,000 yd.	1,001-2,000 yd.	2,001-4,000 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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			G.M.T.	ft.	mb.	mb.	°C	°C	mb.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									







TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS April 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	NO. OF OBSERVATIONS					NUMBER OF OBSERVATIONS							FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	210-430 yd.	440-1,000 yd.	1,000-2,100 yd.	2,100-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS April 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



Volume 80 Number 5

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### May 1963 — *Mostly changeable and cool.*

The weather of the first two weeks was cyclonic in character with troughs or depressions moving eastwards across the country. A transition period followed until the 21st, troughs moving south-east around the eastern flank of an anticyclone off south-west Ireland. The remainder of the month was mostly anticyclonic with high pressure extending at times from the Azores, across the British Isles, to Scandinavia.

Frontal rain, heavy at times, spread southwards over England on the 1st clearing south-east England during the late afternoon. As the associated depression off the north of Scotland moved away towards Scandinavia winds veered to the north-west, and the next two days were cool and generally sunny with showers on the 2nd which became well scattered on the 3rd. Winds were mainly south-westerly during the remainder of the first week and weather cool and mostly dry in the south and east though depressions moving between Scotland and Iceland gave further rain in the north and west. Air frost was fairly widespread in south-east England and the Midlands on the 4th and there were scattered snow or sleet showers over the higher ground of the north Midlands on the 5th.

Every other day during the second week was wet, rain associated with depressions or frontal troughs alternating with fairer weather in intervening ridges. On the 8th a depression moving north-east remained slow-moving near Iceland and its associated trough brought rain to all districts as it crossed the British Isles. The rain cleared eastern England soon after dawn on the 9th, which was a fine day nearly everywhere except in the extreme south-west; further rain reached Scilly during the early evening. Rain was widespread the next day and locally heavy, with falls of over an inch in many parts of the Midlands, and with wind reaching gale force in southern districts, as a depression moved eastwards across Northern Ireland and northern England. The 11th was mainly fair but the 12th was another stormy and wet day with gales and heavy rain in some western districts, as an intense depression moved between Iceland and the Faroes; gusts exceeded 60 kt in parts of Scotland. A showery day followed with the depression remaining slow-moving off the north of Scotland as it decreased in intensity. Rising pressure over central Russia heralded a change of type and on the 14th a shallow depression moved in a more southerly track from Ireland, along the English Channel to northern France, bringing widespread rain to southern England.

By the 15th a ridge of high pressure extended from the South-West Approaches, across the British Isles to southern Scandinavia. The first three days of the third week were fine and sunny in the south but depressions moving between Scotland and Iceland gave occasional rain in the north on the 16th and 17th. Two showery days with local hail and thunder followed, but rain became widespread early on the 20th as a depression moved south-east towards western Scotland. After skirting the north coast of Scotland the depression became quasi-stationary off south-west Scandinavia on the 21st and a cold northerly airstream spread over the British Isles.

A ridge of high pressure again extended north-eastwards across the British Isles on the 22nd. More than 14 hours of sunshine were recorded at many places on both the 22nd and 23rd, but a depression moving northward from France brought rain, locally heavy, to south-east England on the 23rd and to northern districts on the 24th.

Weather became fine and more settled over much of the country on the 25th, with long sunny periods and temperature exceeding 20°C

at many places. The warm spell was broken in the south-east on the 28th and 29th by cool north-easterly winds bringing outbreaks of thundery rain, but day temperature rose rapidly on the 30th and for many places the last day of the month was the warmest day since the summer of 1961.

**Pressure and Wind** — Mean pressure was below the average in the north but above in the south, the deviation at 9 hr ranging from -5.1 mb at Lerwick to +3.7 mb at Scilly. Surface winds were north-westerly at first, becoming mainly south-westerly on the 4th-14th, and then from a generally westerly direction until the 20th, after which they were rather variable until the end of the month. Winds reached gale force in Scotland on 15 days, mostly during the first half of the month, and in England and Wales on the 2nd and 9th-13th (6 days). A gust of 78 kt was recorded at Edinburgh on the 7th.

**Temperature** — Mean temperature was below the 1931-60 average everywhere, the deficit being 0.8°C in England and Wales, 0.9°C in Scotland and 1.1°C in Northern Ireland. In most places day temperatures were below the average until the 25th but rose considerably during the last few days of the month. Air frost was recorded at one place or another on the 2nd-6th and was fairly widespread on the morning of the 4th.

**Extremes included:** (England and Wales) 27.2°C at Southampton, Martyr Worthy and Reading on the 31st, -3.9°C at Santon Downham on the 4th; (Scotland) 24.5°C at Prestwick on the 31st, -3.5°C at Glenmore Lodge on the 24th; (Northern Ireland) 21.2°C at Ballykelly on the 31st, -0.6°C at Newrey Abbey on the 12th and 26th, at Knockmany Forest on the 23rd and 27th and at Moneydig on the 24th.

**Precipitation** — The general rainfall expressed as a percentage of the 1916-50 average was 82 over England and Wales, 138 over Scotland and 125 over Northern Ireland. Rainfall was less than 50 per cent of the average over the southern part of Devon and Cornwall, Worcestershire, the Wirral and locally in north-east England, and about 150 per cent of the average in mid-Kent. In Scotland rainfall was below the average on the eastern side but more than twice the average in parts of south and west Inverness-shire.

Thunder was heard on 10 days in Scotland and on the 5th, 14th, 18th, 19th, 21st, 22nd, 24th and 27th-30th (11 days) in England and Wales. Thunderstorms were fairly widespread in east and north-east England on the 21st and in central and southern England on the 30th.

Sleet or snow fell at one place or another on 18 days in Scotland and on the 1st-3rd, 5th and 18th in England and Wales.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 101 in England and Wales, 103 in Scotland and 95 in Northern Ireland. In England and Wales sunshine was mainly below average in the south-west and above in the north-east. The sunniest day was the 29th with more than 15 hours in parts of Scotland and between 14 and 15 hours over most of Northern Ireland.

**Fog** — In Scotland fog was observed at one place or another on 11 days and in England and Wales on the 1st-5th, 8th, 10th-14th, 16th, 17th, 20th, 22nd, 24th, 25th and 29th-31st (20 days); Ushaw College and Tredegar reported fog on 12 and 10 days respectively.

**Miscellaneous Phenomena** — In Scotland the aurora was observed on 4 nights.



TABLE I—DISTRICT VALUES— May 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Percentage of Average	No. of Days Difference from Average	Percentage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	23.9	-3.5	-0.6	-0.7	-0.6	—	—	136	+4	97
Eastern										
1 SCOTLAND, E.	21.7	-2.8	-0.7	-0.8	-0.8	—	—	80	+4	105
2 ENGLAND, N.E.	23.9	-2.2	-0.6	-0.4	-0.5	-0.9	-0.6	55	+1	104
3 ENGLAND, E.	26.7	-3.9	-1.0	-0.6	-0.8	-0.8	-0.7	105	+2	101
4 MIDLAND COUNTIES	26.1	-1.7	-1.2	-0.5	-0.9	-0.5	-0.3	73	+2	99

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Percentage of Average	No. of Days Difference from Average	Percentage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	27.2	-1.7	-1.3	-0.7	-1.0	-0.5	-0.4	93	+1	99
Western										
6 SCOTLAND, W.	24.5	-3.0	-1.8	-0.6	-1.2	-0.3	-1.1	139	+6	107
7 ENGLAND, N.W. (and N. Wales)	25.7	-2.8	-1.4	-0.3	-0.8	-0.9	-0.7	81	+1	105
8 ENGLAND, S.W. (and S. Wales)	26.1	-0.6	-1.3	-0.2	-0.8	-0.5	-0.4	58	-1	97
NORTHERN IRELAND	21.2	-0.6	-1.5	-0.7	-1.1	-	-	125	+5	95

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— May 1963 (1914)

DISTRICT, COUNTY AND PLACE			Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Mean Hourly Wind Speed	Highest Velocities				
			Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Highest Hourly Wind			Highest Gust				
						Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Speed		Hour ended at	Speed	Day and Time		
			ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	knots	°	knots	day hr.	knots	day	h.m.	
SCOTLAND																					
0 Zetland	Lerwick Observatory	304	33	33	-	0	9	39	388	305	12	0	11.7	180	28	8	03	41	8	0255	
	Orkney	134	50	33	-	0	11	78	402	222	42	0	13.0	290	29	2	11	41	2	0255	
Caithness	Dounreay	110	39	30	13	1	13	77	422	237	7	0	13.6	180	34	13	05	47	13	0705	
	Ross & Cromarty	120	40	36	4, 7, 8, 12, 13, 16	49	20	201	337	104	53	0	18.9	160	43	13	05	58	13	0430	
Inverness	Duirinish	125	65	55	13	7	11	96	314	257	48	22	12.8	-	41	13	06	63	13	0455	
	Benbecula	69	51	35	7, 13	4	20	213	329	178	20	0	18.6	170	39	12	02	60	17	2045	
1 Moray	Lossiemouth	101	80	60	-	0	8	24	308	304	108	0	10.0	210	29	13	17	45	13	1640	
	Aberdeen	225	40	40	-	0	5	23	222	263	236	0	8.1	180	31	7	24	42	7	2145	
Angus	Auchterhouse	822	62	50	-	0	5	11	291	341	88	13	9.6	310	25	2	13	39	1	1600	
	Bell Rock Lighthouse	128	131	124	12, 13, 24	5	14	143	383	168	45	0	14.8	210	35	12	14	43	13	0440	
Perth	Rannoch	1006	56	57	-	0	10	44	449	175	70	6	12.6	-	32	13	11	56	13	0520	
	Fife	78	40	40	-	0	12	66	347	296	35	0	12.3	200	30	13	06	48	13	1100	
Midlothian	Leuchars	137	40	33	-	0	9	43	359	308	34	0	11.6	190	31	7	22	53	7	2310	
	Turnhouse	496	50	34	7, 8, 12	9	11	90	304	233	30	78	13.3	170	47	7	23	78	7	2145	
6a Argyll	Edinburgh, Blackford Hill	89	60	47	12, 13	6	18	204	339	132	63	0	15.7	160	39	13	03	55	13	0140	
	Tiree	50	34	34	-	0	5	31	264	296	153	0	9.8	170	30	13	04	48	18	1315	
Bute	Millport	188	81	31	-	0	4	12	298	369	65	0	9.7	190	26	7	24	44	7	2200	
	Renfrew	71	41	39	-	0	4	12	298	369	65	0	9.7	190	26	7	24	44	7	2200	
Lanark	Renfrew	2412	43	33	1-4, 7, 8, 11-18	62	25	256	289	79	33	15	20.0	310	43	18	16	67	18	1135	
	Lowther Hill	68	33	33	-	0	5	13	401	278	52	0	11.0	280	23	18	15	44	18	1230	
Ayr	Prestwick Airport	825	50	35	-	0	9	57	249	286	152	0	9.9	190	31	8	01	53	12	1405	
	Dumfries	83	33	33	-	0	10	82	362	250	50	0	12.4	140	30	10	05	49	18	1335	
Wigtown	West Freugh				-	0	10	82	362	250	50	0	12.4	140	30	10	05	49	18	1335	
					-	0	10	82	362	250	50	0	12.4	140	30	10	05	49	18	1335	
ENGLAND AND WALES																					
6b Isle of Man	Ronaldsway	113	64	39	12	3	18	135	447	130	29	0	15.8	200	35	12	12	54	10	1820	
	Point of Ayre	70	40	35	-	0	12	88	361	245	50	0	13.0	200	30	12	10	50	7	2145	
2 Durham	Durham	389	53	33	-	0	3	10	321	270	141	2	9.3	260	24	16	17	49	18	1330	
	South Shields	73	57	44	-	0	1	3	357	321	63	0	10.1	290	24	18	16	42	18	1320	
Lincoln	Cranwell	288	47	47	-	0	3	11	417	290	26	0	11.7	300	25	11	14	42	5	1310	
	Gorleston	45	33	33	-	0	1	4	390	348	2	0	11.2	200	22	20	15	35	3	0755	
3 Norfolk	Mildenhall	98	83	80	-	0	1	4	183	413	144	0	7.6	270	24	11	03	40	11	0300	
	Cardington	226	133	133	-	0	6	46	464	200	34	0	12.9	260	27	11	03	39	11	0115	
Bedford	Garston	307	50	33	-	0	0	0	120	535	89	0	7.4	290	17	11	03	32	11	0230	
	Hertford	461	41	33	-	0	0	0	129	467	136	12	6.8	290	15	11	09	35	12	1430	
Essex	Rothamsted	358	31	31	-	0	0	0	386	323	35	0	10.6	210	20	12	16	32	12	1625	
	Stansted	66	57	48	-	0	0	0	169	478	81	16	7.8	330	16	3	11	36	11	0430	
Croyton	Shoeburyness	118	106	91	-	0	8	55	424	262	3	0	12.8	200	28	20	13	42	11	0335	
	Sheffield	533	83	35	-	0	0	0	50	514	180	0	5.7	190	15	12	14	37	18	1715	
4 Yorks, W.R.	Edgbaston	643	118	73	-	0	0	0	219	495	30	0	9.0	290	20	11	02	37	11	0045	
	Warwick	362	30	31	-	0	4	14	390	293	47	0	11.2	280	26	11	02	46	10	2215	
Stafford	Keele	706	50	33	-	0	0	0	277	349	118	0	8.9	270	21	10	22	49	10	2210	
	Avonmouth	92	61	33	10	3	12	81	319	206	62	73	12.7	250	36	10	16	47	10	1615	
5 London	Kingsway	208	143	41	-	0	0	0	219	484	41	0	8.8	280	17	18	15	35	11	0610	
	Middlesex	115	33	33	-	0	1	2	357	367	18	0	10.4	190	22	12	14	33	12	1430	
Surrey	Hampton	139	101	100	-	0	0	0	244	387	113	0	8.5	260	20	11	03	37	11	0225	
	Kew Observatory	92	75	50	-	0	0	0	207	431	106	0	8.3	210	18	12	14	38	12	1305	
Gatwick	Gatwick	232	38	33	-	0	0	0	234	363	147	0	8.0	230	20	13	15	35	12	1130	
	Isle of Grain	48	40	33	-	0	0	0	111	231	357	45	4.6	230	18	10	13	32	11	0405	
Dover	Dover	68	38	62	-	0	1	1	279	358	106	0	9.1	360	22	29	12	40	10	1430	
	Sussex	75	65	42	-	0	1	5	241	353	145	0	8.3	250	24	10	16	42	10	1540	
Hampshire	Thorney Island	86	53	46	-	0	1	2	345	297	100	0	9.9	250	23	10	14	38	11	1335	
	Hurn	50	41	33	-	0	2	11	503	188	42	0	12.2	220	23	12	24	35	10	1225	
Calshot	Calshot	313	69	35	-	0	0	0	174	417	153	0	7.4	250	20	10	21	40	13	1335	
	S. Farnborough	295	40	40	-	0	3	7	290	310	137	0	9.2	280	22	11	08	36	12	1635	
Berkshire	Abingdon	491	51	36	-	0	0	0	239	407	98	0	8.6	260	21	10	20	42	10	1955	
	Larkhill	425	55	55	-	0	2	4	202	346	192	0	7.6	230	25	12	19	43	12	1520	
Wiltshire	Boscombe Down	406	44	44	-	0	1	2	207	319	216	0	7.3	206	24	12	19	37	10	1920	
	Porton	137	42	30	-	0	5	19	404	169	152	0	10.6	210	28	13	12	42	13	1115	
7a Cumberland	Carlisle	83	39	35	-	0	5	32	405	254	53	0	11.7	300	27	18	15	45	16	1440	
	Sellafield	959	51	40	-	0	6	31	426	265	22	0	12.6	220	29	12	15	47	16	1235	
Spadeadam	Spadeadam	1960	50	45	8, 17, 18	6	18	169	365	157	44	3	15.8	260	38	18	02	56	18	1310	
	Moor House	59	41	33	-	0	13	72	364	239	69	0	12.6	320	32	10	23	45	10	2215	
Lancashire	Southport	112	50	31	10	2	11	96	334	234	78	0	12.4	310	36	10	22	54	16	1350	
	Fleetwood	84	41	33	-	0	10	36	395	254	59	0	11.8	290	27	10	21	44	10	2055	
Speke	Manchester W/Centre	268	147	55	-	0	0	0	297	359	88	0	9.2	290	21	10	24	47	18	1430	
	Bidston Observatory	262	64	39	-	0	10	62	355	280	38	9	-	290	32	10	22	56	10	2135	
Cheshire	Ringway	261	33	33	-	0	6	8	351	281	104	0	10.0	290	23	18	17	42	16	1240	
	Valley	76	50	40	9, 10, 12	4	10	123	427	171	19	0	15.2	160	35	9	23	47	9	2245	
7b Anglesey	Aberporth	483	41	41	10	2	13	116	358	193	75	0	13.7	250	34	10	55	10	0810		
	Glamorgan	91	40	35	-	0	3	31	283	318	112	0	9.9	270	27	10	14	44	10	1345	
Rhoose	Port Talbot	257	37	32	-	0	6	45	366	301	32	0	11.7	270	33	10	18	54	10	1740	
	Plymouth Hoe	191	88	65	-	0	6	28	322	313	81	0	10.7	-	30	10	15	-	-	-	
8b Devon	St. Mary's, Scilly	230	65	57	10	15	14	113	450	134	32	0	15.7	260	38	10	06	54	10	0435	
	Cornwall	315	75	60	10	13	18	157	454	104	16	0	16.8	290	40	10	17	51	10	1540	
The Lizard	The Lizard				-	0	6	28	440	266	10	0	12.4	260	29	10	14	41	10	1100	
					-	0	6	28	440	266	10	0	12.4	260	29	10	14	41	10	1100	
NORTHERN IRELAND																					
Londonderry	Ballykelly	52	50	35	-	0	8	28	340	240	136	0	10.3	300	32	18	13	52	18	1215	
	Antrim	281	65	55																	

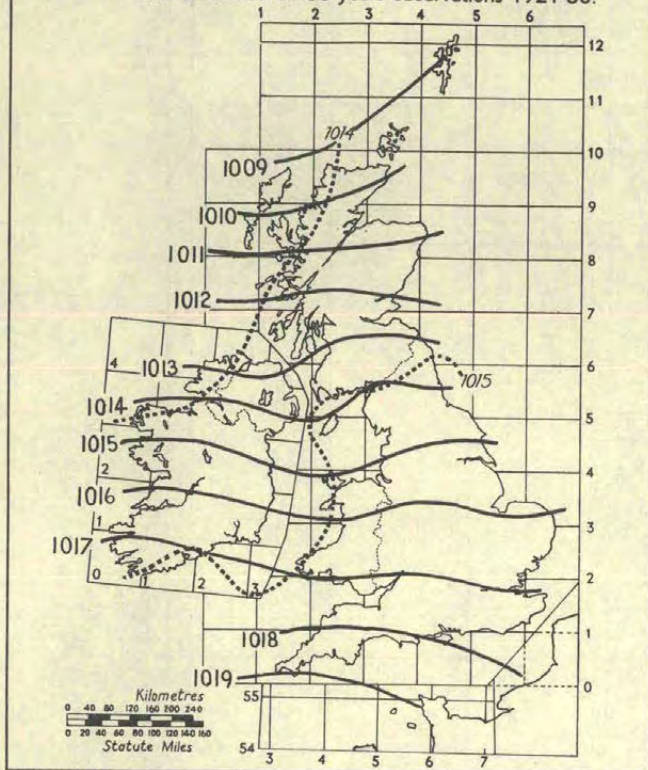


# MONTHLY WEATHER CHARTS

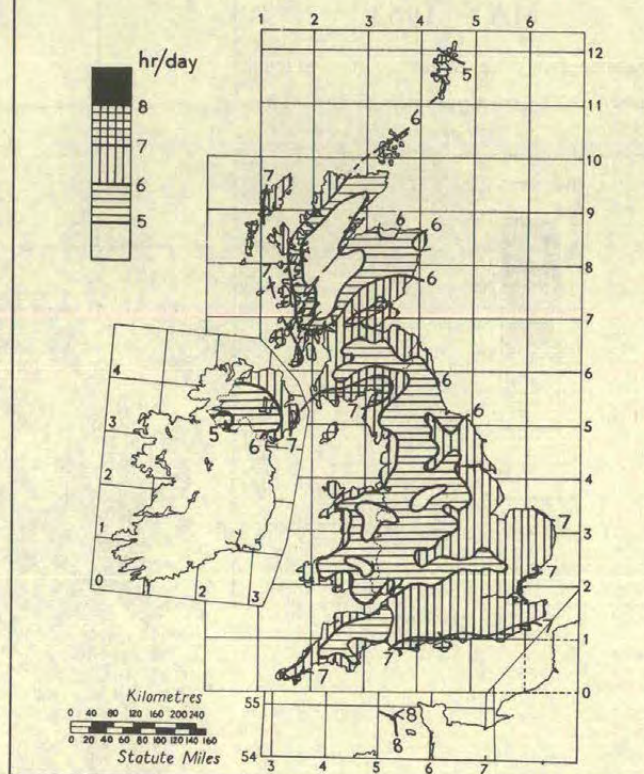
## MAY 1963

### MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

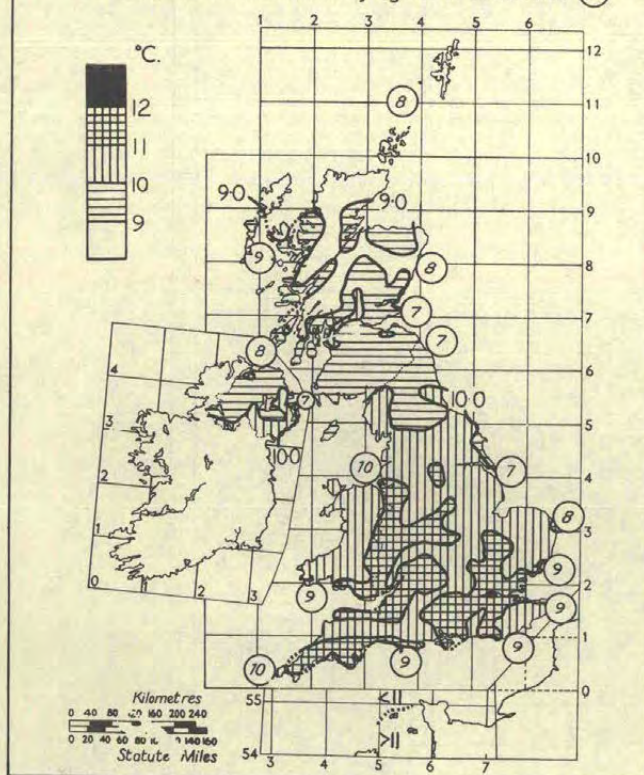


### BRIGHT SUNSHINE

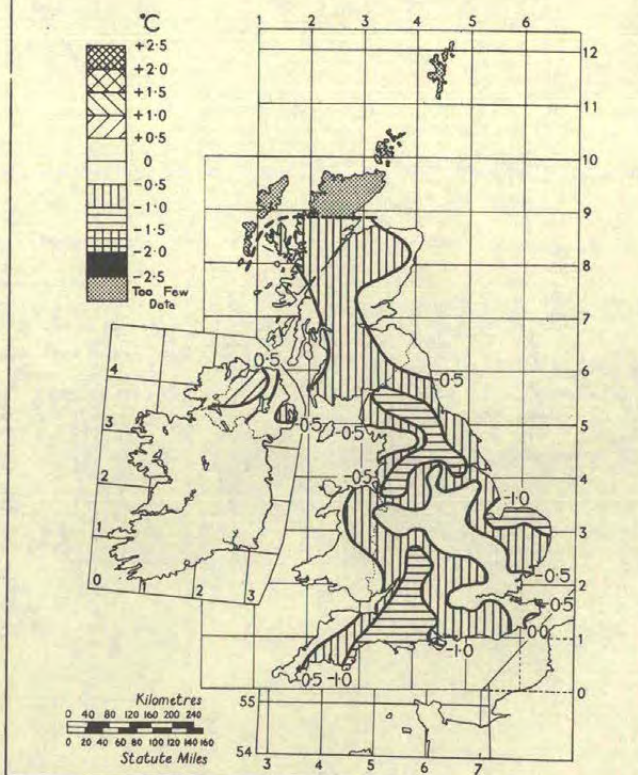


### MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus (10).



### ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

MAY 1963

The equivalent values in mm. are given in round numbers. The exact relation is 10 in. = 254 mm.

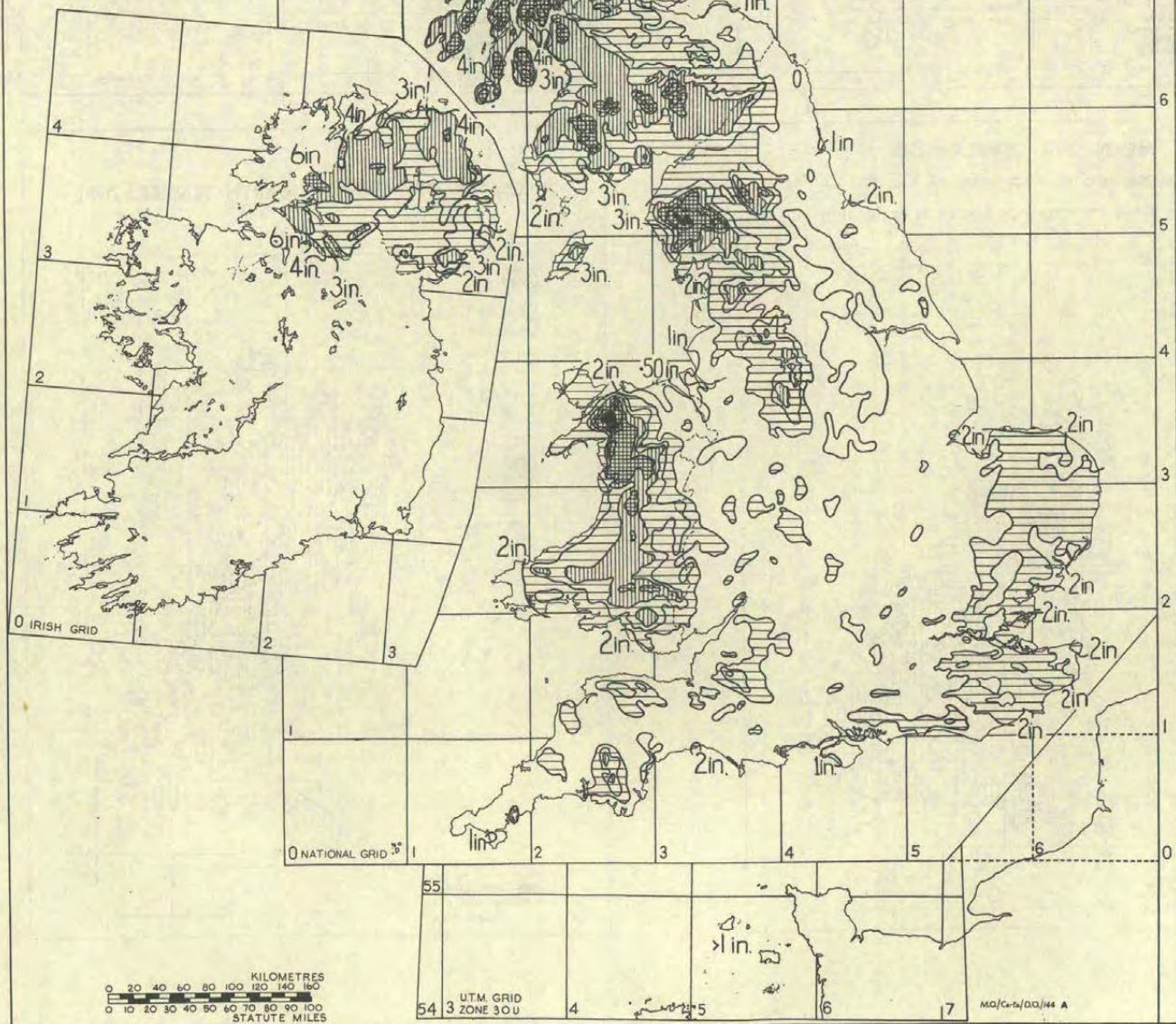
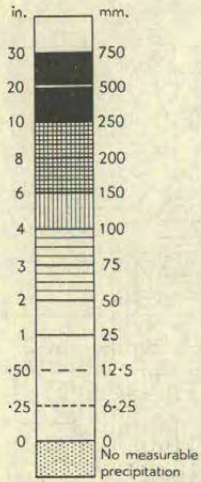




TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of				Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average	
			A Max.	B Min.	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date					Amount	Date	0.01 in. (0.2mm.) or more	0.01 in. (1.0mm.) or more												
G.M.T.			ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.														hr	%	
0 SCOTLAND, N.																														
Zetland	Hamnavoe ...	9 9	70	10.3	6.1	8.2	-	15.6	31	3.3	2	-	-	3.29	-	.66	20	20	17	0	0	0	0	0	0	0	0	0	6.15	-
	Lerwick Obs'y. §§	21-9	269	9.9	5.0	7.5	-0.3	14.1	31	1.5	3	-	-	3.07	140	.73	4	19	12	2	0	0	0	0	0	0	2	5.49	103	
	Baltasound ...	9 9	78	10.6	5.3	7.9	-	15.6	31	2.8	2,7,24	7.2	-	3.75	157	.69	4	20	16	5	0	0	0	0	0	0	0	2	4.60	-
Orkney	Sule Skerry ...	9 9	43																											
	Stenness ...	9 9	75	11.6	5.2	8.4	-	16.1	31	2.8	2,7,23	8.3	-	3.20	-	.40	4	23	19	2	0	1	4	0	0	0	0	9	5.10	-
	Costa ...	9 9	115	11.3	5.4	8.3	-	15.0	13,29	2.8	2,20	-	-	3.82	-	.46	4	22	20	2	0	1	4	0	1	0	0	5.97	-	
	Kirkwall ...	21-9	84	11.0	5.1	8.1	-	14.4	13	1.9	20	-	-	3.04	158	.37	4	23	18	4	0	2	0	0	0	0	0	5.47	97	
Caithness	Dounreay ...	9 9	70	12.1	4.4	8.3	-	18.9	31	(0.6)	20	-	-	2.00	-	.32	17	22	15	0	0	0	0	0	0	0	3	-	-	
	Wick ... §§	21-9	119	11.3	4.7	8.0	-0.4	14.4	16	0.3	20	-	-	2.07	114	.27	2	21	15	0	0	1	4	0	0	0	4	5.44	96	
Sutherland	Cape Wrath ...	21-9	367	10.6	5.0	7.5	-1.1	17.0	31	0.5	21	-	-	2.19	84	.49	20	22	14	0	0	3	0	1	2	0	2	-	-	
	Achany ...	9 9	280	13.1	3.8	8.5	-	19.4	31	-1.7	20	9.3	7.2	2.57	121	.41	17	24	17	2	0	4	0	0	0	4	17	-	-	
	Strathly ...	9 9	120	12.6	4.3	8.5	-0.7	21.7	31	0.0	20	-	-	2.35	107	.42	20	24	15	2	0	0	2	0	0	0	0	5.80	110	
Ross & Cromarty	Stornoway §§	21-9	11	11.8	5.0	8.4	-0.9	16.5	31	0.5	5	-	-	4.02	176	.48	12	24	23	2	0	3	3	0	0	0	4	6.55	104	
	Balmacara ...	9 9	2	12.8	5.7	9.3	-	22.8	31	3.3	2,6,23	-	-	7.32	-	1.04	7	24	23	-	-	-	-	-	-	-	-	-	-	
	Poolewe ...	9 9	20	12.6	6.0	9.3	-	23.3	31	2.2	2,5	-	-	5.24	-	.75	4	22	19	0	0	0	0	0	0	0	0	6.16	5	
	Inverpolly ...	9 9	45	12.8	5.7	9.3	-	22.2	31	1.1	5	9.6	-	2.94	-	.52	4	21	18	2	0	3	0	0	0	0	2	-	-	
	Achnashellach ...	9 9	220	13.1	4.2	8.7	-1.4	22.8	31	0.0	6	-	-	9.30	244	1.05	12	19	19	0	0	0	0	0	0	0	0	-	-	
	Kinlochewe ...	9 9	76	13.3	5.3	9.3	-	22.8	31	1.1	2	8.7	-	8.25	-	.90	13	25	25	0	0	1	0	1	0	0	7	4.37	5	
	Blackbridge ...	9 9	690	12.8	1.9	7.3	-	21.1	31	-0.6	23,28	-	-	3.62	-	.43	13	21	18	-	-	-	-	-	0	2	11	4.25	-	
	Fortrose ... §§	9 9	15	12.1	6.4	9.3	-0.3	(16.7)	12	3.3	1,2	-	-	1.28	67	.21	24	18	10	-	-	-	-	-	0	0	-	5.31	95	
	Tarbatness ...	21-9	60	12.4	5.9	9.1	-	16.0	7,26	2.0	2	-	-	1.31	-	.22	20	17	12	0	0	0	0	0	0	0	0	-	-	
Inverness	Benbecula ...	21-9	19	12.0	6.4	9.2	-0.6	20.0	31	3.6	2	-	-	4.47	163	.66	12	24	20	0	0	1	2	0	0	0	1	7.40	-	
	Isle of Rhum ...	9 9	15	12.8	5.6	9.2	-	22.2	31	2.2	28	10.7	8.5	11.29	-	1.43	6	25	24	0	0	0	0	0	0	0	7	-	-	
	Prabost ...	9 9	220	12.0	5.2	8.6	-	21.7	31	0.6	5	-	-	7.72	-	1.44	12	26	24	0	0	0	0	0	0	0	7	5	6.13	-
	Duntulm ...	9 9	294	11.4	5.4	8.4	-1.0	21.1	31	2.2	1,2,5	-	-	4.32	151	.43	12	25	25	1	0	5	0	0	0	0	1	4	6.05	94
	Onich ... §§	9 9	48	12.8	5.5	9.1	-1.3	23.3	31	0.6	23	-	-	7.46	183	.75	7	23	22	0	0	0	0	0	0	0	10	1	4.89	88 S
	Fort William ...	9 9	27	13.1	5.5	9.3	-	23.9	31	0.0	23	9.4	8.5	5.78	-	.68	7	22	21	1	0	0	2	0	0	0	1	4.14	-	
	Fort Augustus ...	9 9	70	12.7	5.1	8.9	-1.0	19.4	28	0.0	23	-	-	4.02	-	.46	5	22	18	0	0	1	1	0	0	0	2	4.71	-	
	Cannich ...	9 9	350	13.1	3.2	8.1	-	20.6	31	-2.8	23	-	-	6.03	263	1.27	7	23	19	2	0	2	0	0	0	5	20	-	-	
	Inverness ...	9 9	13	13.8	5.9	9.9	-	16.7	12,13	2.8	2,3,20	-	-	1.32	-	.21	2	16	12	0	0	0	0	0	0	0	0	5.91	-	
	Achnagoichan ...	9 9	1000	12.1	3.1	7.6	-	22.2	31	-2.2	24	7.4	-	2.38	-	.30	18	22	16	-	-	-	-	-	3	13	-	-	-	
	Glenmore Lodge ...	9 9	1120	11.7	1.5	6.6	-	21.1	31	-3.5	24	-	-	2.71	-	.42	21	23	15	4	0	0	0	0	12	19	0	5.17	-	
1 SCOTLAND, E.																														
Nairn	Nairn ... §§	9 9	20	12.9	4.1	8.5	-1.3	17.8	12	-1.1	23	-	-	1.21	61	.35	19	21	8	0	0	0	0	0	0	1	6	5.72	103	
Moray	Grantown-on-Spey ...	9 9	720																											
	Forres ...	9 9	155	13.2	5.1	9.1	-	21.1	31	1.1	23	9.7	7.9	1.50	79	.18	26	19	13	0	0	3	0	0	0	0	2	0	5.49	95
	Kinloss ...	21-9	15	13.4	4.6	9.0	-	20.3	31	-0.7	24	8.9	-	1.76	-	.24	1	23	13	1	0	1	2	0	0	1	12	0	5.89	-
	Elgin ...	9 9	92	13.9	5.2	9.5	-	21.7	31	1.7	24	-	-	1.27	-	.22	26	20	12	0	0	0	0	0	0	3	0	6.71	-	
	Lossiemouth ...	9 9	21	13.1	4.9	9.0	-0.6	17.2	31	1.1	23	-	-	1.58	-	.28	20	21	13	0	0	0	1	0	0	0	11	0	-	-
	Gordon Castle ...	9 9	104	13.8	4.8	9.3	-0.8	21.7	31	0.0	24	-	-	1.99	95	.42	20	18	14	0	0	2	0	0	-	0	-	6.09	107	
Banff	Banff ...	9 9	80	12.7	5.6	9.1	-	18.3	31	2.8	2,20,24	-	-	2.05	-	.29	20	22	17	0	0	4	0	0	0	-	0	5.43	-	
Aberdeen	Braemar ...	9 9	1113	11.8	2.5	7.1	-1.2	20.6	31	-2.8	24	-	-	2.64	101	.60	7	22	15	-	-	-	-	-	4	-	-	5.29	5	
	Balmoral ...	9 9	927	11.9	2.3	7.1	-1.2	20.0	31	-2.8	24	-	-	1.98	80	.33	24	21	12	2	0	0	0	0	-	3	13	0	-	-
	Dinnet ...	9 9	580	13.2	3.6	8.4	-	21.7	31	-1.7	24	8.8	-	1.24	-	.24	24	17	10	1	0	0	0	0	0	2	17	0	-	-
	Huntly ...	9 9	405	13.2	4.0	8.6	-	20.8	31	-0.4	24	-	-	1.53	-	.19	1	17	12	0	0	0	0	0	0	1	4	0	-	-
	Fyvie Castle ...	9 9	218	13.2	4.2</																									



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE						
			Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percent- age of Average			Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1	Grass min. below 0° C	Gale	Daily Mean	Percent- age of Average				
			A Max.	B Min.		Maximum	Date	Minimum			Date	Amount	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more																
			Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%				
1 SCOTLAND, E.—cont.																															
Midlothian	Balerno ...	9 9	700	12.8	3.8	8.3	-	17.2	28	1.1	6.19	-	-	2.55	-	.50	10	15	15	1	-	0	0	0	0	0	13	0	5.24	89	
	Turnhouse ...	21-9	114	13.5	4.9	9.2	-0.7	17.6	28	1.1	23	-	-	1.52	70	.29	10,21	16	9	0	0	2	3	1	0	0	8	0	6.10	-	
	Edinburgh—E. Craigs	9 9	200	13.4	5.3	9.3	-	17.2	28	2.2	23	-	-	1.69	-	.34	21	17	10	4	0	2	0	1	0	0	5	0	6.05	-	
	Davidson's Mains	9 9	200	13.6	5.4	9.5	-0.7	18.3	28	2.2	23	9.6	-	1.84	-	.48	24	17	10	0	0	0	4	1	0	0	0	0	5.79	-	
	Penicuik ...	9 9	620	12.9	4.3	8.6	-	18.9	31	0.6	23	9.9	-	2.04	-	.33	19	19	13	2	0	3	0	0	1	0	8	0	5.43	-	
	Bush House ...	9 9	605	12.4	4.3	8.3	-	15.7	28	1.1	23	9.1	7.4	2.16	-	.43	20	16	13	0	0	0	0	0	1	0	-	0	6.14	-	
	Edinburgh—																														
	Blackford Hill §§	9 9	441	13.4	5.4	9.4	-0.5	17.8	26,28	2.2	2,23	-	-	1.71	77	.44	21	18	9	0	0	0	2	1	1	0	3	1	6.04	103	
	Liberton ...	9 9	200	13.3	5.4	9.3	-0.8	18.3	26	1.1	23	-	-	1.78	-	.40	24	18	12	1	0	1	0	1	0	0	3	1	5.95	-	
	Royal Bot. Gdns.	9 9	74	13.2	5.6	9.4	-0.9	17.2	28	1.7	23	10.4	-	1.70	-	.40	24	14	11	0	0	2	2	1	0	0	6	1	6.39	109	
E. Lothian	Haddington ...	9 9	162	13.7	5.3	9.5	-	18.9	26	1.7	23	-	-	1.11	-	.16	20	20	10	0	0	5	0	0	0	0	11	1	6.40	-	
	North Berwick ...	9 9	51	13.0	5.3	9.1	-	18.3	26	2.2	23	-	-	1.12	53	.19	10	17	9	0	0	0	0	0	1	0	-	2	6.00	103	
	Dunbar ...	9 9	75	12.6	6.0	9.3	-0.3	18.9	26	2.8	3,23	-	-	1.13	-	.34	10	18	10	0	0	1	0	0	0	0	0	0	7.07	116	
Berwick	Mertoun ...	9 9	225	13.2	4.7	8.9	-	18.3	31	1.1	23	-	-	2.23	-	.39	20	20	15	-	-	-	-	-	0	11	-	-	6.09	-	
	Lauder ...	9 9	600	12.9	3.6	8.3	-	18.9	31	-0.6	5,9,23	-	-	1.89	-	.26	20	19	13	6	0	0	5	0	0	3	13	2	6.35	-	
	Marchmont §§	9 9	498	12.4	4.6	8.5	-1.2	18.3	31	1.1	2,4,5	-	-	2.14	97	.47	10	17	15	1	0	1	0	0	0	0	0	-	0	6.23	112
	St. Abb's Head ...	9 9	245	11.7	5.8	8.7	-	18.4	26	2.2	5	-	-	1.53	-	.39	21	15	11	0	0	2	0	0	1	0	0	1	-	-	-
Peebles	Stanhope Farm ...	9 9	741	12.1	3.9	8.0	-	21.1	31	-2.2	23	-	-	3.84	-	.62	10	19	18	1	0	0	1	0	0	1	-	0	-	-	-
	Blyth Bridge ...	9 9	830	11.9	4.1	8.0	-	19.4	31	0.0	23	-	-	2.62	-	.53	10	20	15	1	0	2	1	0	0	0	6	0	6.03	-	
	West Linton ...	9 9	800	12.1	3.4	7.7	-	20.0	31	-1.1	23	8.7	7.3	2.65	-	.44	20	21	18	1	0	3	0	0	0	1	3	0	-	-	-
	Glentworth ...	9 9	580	13.1	3.9	8.5	-	20.6	31	-1.1	23	-	-	2.15	-	.28	10	20	15	1	0	3	0	0	0	1	-	0	-	-	-
Selkirk	Bowhill ...	9 9	600	12.6	3.8	8.2	-	20.6	28,31	0.0	23	-	-	3.04	-	.48	20	20	17	1	0	1	1	0	0	0	0	-	-	-	-
Roxburgh	Wauchope ...	9 9	560	12.8	3.9	8.3	-	21.7	31	0.0	23	-	-	3.63	-	.39	21	21	18	-	0	-	-	-	2	0	-	-	-	-	-
	Sourhope ...	9 9	900	12.0	3.8	7.9	-	18.9	31	1.1	3,6,19	-	-	2.95	-	.44	21	22	17	-	0	-	-	-	0	0	6	-	5.73	-	
6a SCOTLAND, W.																															
Argyll	Tiree ... §§	21-9	29	11.8	6.2	9.0	-1.1	19.6	31	1.8	5	-	-	3.70	145	.49	11	24	20	0	0	0	5	1	0	0	3	1	7.33	97	
	Rhuvaal ...	21-9	65	11.9	6.5	9.2	-	20.6	31	2.1	5	-	-	5.37	-	.62	18	22	19	1	0	2	0	0	0	0	0	0	-	-	-
	Colonsay ...	9 9	87	12.4	5.2	8.8	-1.5	21.1	31	1.7	5	-	-	4.16	140	.50	5	25	19	2	-	2	0	0	0	1	0	-	2	-	-
	Tobermory ...	9 9	270																												
	Campbeltown ...	9 9	10	12.9	5.6	9.3	-	23.3	31	3.3	2,4	-	-	3.62	-	.63	16	19	16	-	0	-	-	-	3	0	-	-	7.05	-	
	Achaglachgach ...	9 9	40	13.2	4.7	8.9	-	22.2	31	0.0	23	-	-	5.09	-	.63	16	22	22	0	-	3	0	0	0	0	0	6	0	-	-
	Oban ...	9 9	229	11.9	4.7	8.3	-	22.2	31	1.1	5	-	-	5.54	173	.75	12	24	21	0	0	2	0	0	0	0	0	1	0	5.41	85
	Lepinmore ...	9 9	30	13.1	5.7	9.4	-	21.1	29	1.7	23	-	-	6.67	-	.73	7	23	22	2	0	2	0	0	0	0	0	6	0	5.01	-
	Glenbranter ...	9 9	120	12.7	4.3	8.5	-1.7	21.1	31	-0.6	22,23	-	-	9.05	185	1.44	7	23	21	-	0	-	-	-	0	2	5	-	-	-	-
	Benmore ...																														
	Forestry Sch.	9 9	46	13.2	4.7	8.9	-1.4	21.7	31	0.0	5,23	9.7	8.4	8.20	169	1.29	7	23	21	0	0	0	0	0	7	0	8	0	-	-	-
	Younger Bot. Gdns.	9 9	40	13.2	5.4	9.3	-	21.7	31	0.6	24	-	-	8.58	-	1.29	7	24	22	0	0	0	1	0	0	0	0	3	0	-	-
Bute	Rothsay §§	9 9	150	13.0	6.1	9.5	-1.1	20.0	29	3.3	2,6,23	9.6	8.2	5.08	146	.73	16	24	22	0	0	2	0	0	0	0	0	3	0	6.19	97
	Millport ...	9 9	16	12.4	6.6	9.5	-	20.6	31	3.3	5	-	-	4.28	150	.53	7	23	18	0	0	1	0	0	0	0	0	0	-	-	-
Dunbarton	Helensburgh ...	9 9	293	13.3	5.2	9.3	-1.0	20.6	31	1.1	23	-	-	4.77	134	.58	5	23	21	0	0	0	0	0	0	0	0	0	-	-	-
	Cumbarnauld ...	9 9	310	13.6	4.5	9.1	-	18.9	28	0.0	23	-	-	3.79	-	.44	6	20	16	1	0	0	0	0	1	0	0	9	0	-	-
Stirling	Earls Hill ...	9 9	1100	10.5	3.2	6.9	-	17.0	31	0.0	5,6	-	-	5.45	-	.70	12	20	19	-	-	-	-	-	1	0	5	-	6.59	-	
	Stirling ...	9 9	151	14.2	5.8	10.0	-0.9	20.6	31	2.2	22,23	11.9	7.4	2.82	108	.37	7	19	15	1	0	0	0	0	0	0	1	0	7.37	-	
	Falkirk ...	9 9	100	14.3	5.0	9.7	-1.0	19.4	28	1.1	5,7	-	-	2.45	-	.27	4	19	16	-	-	-	-	-	-	0	-	-	-	-	-
Renfrew	Greenock ...	9 9	200	13.2	5.9	9.5	-1.5	21.1	31	2.8	5,6	-	-	5.32	148	.94	7	22	18	0	0	0	0	0	0	0	2	0	6.83	-	
	Paisley ...	9 9	106	14.0	6.4	10.2	-1.1	20.6	31	2.8	23	10.5	8.0	3.76	134	.69	7	21	17	0	0	2	0	0	0	0	0	1	0	6.24	107
	Barrhead ...	9 9	97	13.1	5.6	9.3	-	20.0	31	0.6	23	-	-	4.29	-	.62	7	20	18	0	0	3	0	0	0	0	0	2	0	-	-
Renfrew	Renfrew §§	21-9	26	13.5	5.9	9.7	-1.0	20.8	31	0.9	23	-	-	3.00																	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER												BRIGHT SUNSHINE			
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum																							
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C.	Gale	Daily Mean	Percentage of Average			
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	°C.	°C.	in.	0.01 in. (0.2 mm.) or more	0.01 in. (1.0 mm.) or more								hr	%	
2 ENGLAND, N.E.—cont.																															
Northumberland cont.	Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Corbridge	9 9	160	14.3	4.2	9.3	-	20.0	31	-2.2	4	-	1.03	-	.22	21	16	8	0	0	2	0	1	1	2	5	0	-	-		
	Berwick-on-Tweed	9 9	76	11.8	5.8	8.8	-0.5	17.8	26	2.8	4	-	1.42	81	.35	20	15	11	0	0	2	0	2	1	0	1	0	6.15	104		
	Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Cockle Park	9 9	326	13.4	4.6	9.0	-0.4	20.6	26	-0.6	5	9.1	-	1.05	48	.12	20	17	12	0	0	0	2	0	0	1	3	0	6.22	110	
Durham	Acklington	21-9	138	13.2	4.8	9.0	-	20.3	26	0.4	23	-	1.02	-	.16	14	18	9	0	0	4	0	0	0	0	0	6	0	7.18	-	
	Tynemouth	21-9	95	12.4	6.6	9.5	-0.2	18.0	26	3.7	2	-	.96	48	.15	1	14	9	0	0	0	0	0	0	1	0	2	0	5.84	-	
	Chopwellwood	9 9	446	14.1	4.6	9.3	-0.7	20.0	26	0.6	4	-	1.22	57	.23	10	13	11	0	0	0	0	0	0	0	12	0	-	-		
	Ushaw College	9 9	594	13.3	4.6	8.9	-1.0	19.4	26, 31	-0.6	20	-	1.15	52	.36	10	14	8	0	0	1	1	0	12	1	0	-	-	-		
	Houghall	9 9	123	14.5	4.6	9.5	-0.6	20.6	28	-1.7	4	-	1.21	57	.34	10	14	9	0	0	2	0	0	0	1	9	0	5.70	105		
	Durham	9 9	336	14.1	5.7	9.9	-0.2	20.6	31	1.1	4	9.9	8.2	.96	48	.28	10	14	7	0	-	-	-	-	0	7	-	5.00	92		
	Gateshead	9 9	509	13.1	5.7	9.4	-	18.9	26	2.8	2, 5, 6	-	1.15	-	.24	21	13	8	-	-	-	-	-	0	0	0	-	5.21	-		
	Middleton St. George	21-9	115	13.9	5.4	9.7	-	20.0	26	0.9	4	-	1.50	-	.56	10	14	8	0	0	3	0	1	0	0	7	0	5.62	-		
	West Hartlepool	9 9	30	13.6	6.3	9.9	-	20.6	26	3.3	6	-	1.37	-	.35	10	16	9	0	0	1	0	1	0	0	0	0	0	5.91	-	
	Yorks., N. Riding	Dishforth	21-9	105	14.8	6.0	10.4	-	23.7	31	1.3	4	-	1.08	56	.30	10	20	5	1	0	1	0	0	0	0	2	0	6.13	-	
Yorks., E. Riding	Thirsk	9 9	111	14.9	5.3	10.1	-	23.9	31	-1.1	4	-	.88	-	.29	10	14	8	0	0	3	0	0	0	1	11	0	-	-		
	York	9 9	57	15.3	6.4	10.9	-0.7	23.9	31	2.2	4	10.7	8.7	1.07	54	.34	10	16	9	0	0	0	1	0	0	-	0	6.14	101		
	Ampleforth	9 9	313	13.9	4.9	9.4	-1.1	21.1	31	1.1	2, 4, 23	-	1.30	59	.34	10	14	10	-	-	-	-	-	0	0	9	-	-	-		
	Redcar	9 9	25	13.8	6.5	10.1	-	21.1	26	3.9	2, 4, 23	-	2.13	117	.75	21	17	11	1	0	1	0	0	1	0	-	0	5.73	-		
	Whitby	9 9	135	13.3	6.1	9.7	-	20.6	26	0.6	23	-	1.79	94	.45	21	14	10	0	0	1	0	0	2	0	-	0	5.48	97		
	Scarborough	9 9	118	14.1	6.9	10.5	-0.1	18.3	16	3.3	6	10.9	9.4	1.09	59	.19	18	14	10	0	0	0	0	1	0	0	0	6.57	114		
	Silpho Moor	9 9	665	12.8	4.6	8.7	-	20.0	26	0.6	23	8.5	-	1.53	-	.27	10	17	11	0	0	1	0	1	4	0	12	0	6.44	-	
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Whitby C/Guard	21-9	200	12.6	6.1	9.3	-	20.5	26	0.4	23	-	1.39	-	.37	10	14	8	0	0	1	1	2	2	0	1	0	-	-		
	High Mowthorpe	9 9	574	12.9	5.3	9.1	-	18.3	26	0.6	6	8.6	-	1.60	70	.26	23	20	13	0	0	1	0	0	0	0	7	0	6.23	-	
Lincoln	Hull	9 9	8	14.7	6.7	10.7	-0.7	20.0	26	2.2	2	10.4	7.7	1.57	81	.39	19	17	11	0	0	0	0	0	0	0	0	0	6.20	110	
	Leconfield	21-9	24	14.2	6.1	10.1	-	20.0	26	1.8	4	-	1.62	-	.36	10	16	12	1	0	1	1	3	0	0	0	0	6.41	-		
	Filey	9 9	122	12.8	5.6	9.2	-	17.8	16, 26	1.1	2	-	1.42	-	.33	10	16	9	0	0	1	0	1	0	0	1	0	5.82	-		
	Bridlington	9 9	157	12.9	5.4	9.1	-	17.2	16	1.1	2	-	1.26	-	.21	10	15	10	0	0	1	0	1	0	0	11	1	6.72	-		
	Spurn Head	21-9	29	13.0	6.9	9.9	-0.7	18.0	16	3.9	6	-	1.36	-	.33	14	16	10	0	0	0	0	1	0	0	-	0	6.38	104		
	Gainsborough	9 9	110	14.8	5.3	10.1	-	21.7	26	0.6	4, 6	-	1.02	-	.17	10, 23	16	8	0	0	0	0	0	0	0	0	-	0	-	-	
	Navenby	9 9	60	15.4	5.1	10.3	-	23.3	31	-0.6	2, 23	-	1.35	-	.19	10, 23	17	12	0	0	0	2	1	0	3	9	0	-	-		
	Waddington	21-9	224	14.6	6.1	10.3	-0.9	22.3	31	2.2	4	-	1.41	-	.28	23	13	10	0	0	0	0	0	0	0	0	0	6.66	-		
	Lincoln	9 9	22	15.3	5.4	10.3	-	22.8	31	0.6	2, 15, 23	10.4	8.4	1.32	-	.22	10	14	10	0	0	0	0	0	0	7	0	6.12	-		
	Cranwell	9 9	205	14.9	5.5	10.2	-0.9	22.4	31	2.0	2	10.9	9.1	1.30	66	.32	23	15	10	0	0	0	0	0	0	6	0	6.53	105 S		
Cambridge	Cleethorpes	9 9	23	14.3	6.3	10.3	-0.6	19.4	25, 26	2.8	3, 4, 7	-	1.17	63	.19	10	15	10	0	0	0	0	0	0	0	0	0	0	6.62	107	
	Manby	21-9	55	14.5	5.5	10.0	-	19.2	26	1.5	2	-	1.39	-	.24	10	14	9	0	0	0	1	0	0	0	1	0	6.67	-		
	Skegness	9 9	15	13.8	6.3	10.1	-0.6	18.9	7	1.7	4	-	1.61	98	.28	13	13	12	0	0	0	0	0	0	0	3	0	6.30	98		
	3 ENGLAND, E.																														
	Norfolk	Terrington	9 9	13	15.1	5.7	10.4	-	24.4	31	0.6	4	10.2	-	1.38	88	.31	23	14	9	0	0	0	0	1	0	0	6	0	6.21	-
		St. Clement	21-9	76	15.0	5.5	10.3	-	25.6	31	0.0	20	-	1.87	-	.42	1	15	10	0	0	1	0	0	0	0	6	0	-	-	
		Marham	9 9	80	15.9	3.9	9.9	-	26.1	31	-3.9	4	10.1	8.4	2.23	-	.59	23	15	12	-	-	-	-	0	6	13	-	-	-	
		Santon Downham	21-9	250	14.2	5.5	9.9	-	24.3	31	1.2	20	-	2.34	-	.52	23	14	10	0	0	1	0	0	0	0	9	0	6.65	-	
		West Raynham	9 9	178	13.5	6.6	10.1	-1.0	20.0	8	3.3	4, 6	-	1.76	94	.27	23	16	11	-	C	-	-	-	0	0	1	-	7.00	110	
		Cromer	9 9	93	14.7	5.8	10.3	-0.9	22.8	31	-0.6	4	10.7	-	1.84	103	.42	23	13	11	0	0	0	2	0	1	8	0	6.64	102 S	
Burlingham		9 9	89	14.4	6.3	10.3	-	21.7	31	1.1	4	-	2.21	131	.39	14	14	11	0	0	1	0	2	0	0	2	0	6.45	-		
Gorleston		21-9	12	12.5	7.2	9.9	-0.9	16.0	13	2.6	2	11.1	9.5	2.06	136	.35	1	14	11	0	0	1	0	2	0	0	2	0	6.54	97	
Mildenhall		21-9	15	15.7	6.6	11.1	-	26.4	31	0.9	4	-	1.54	95	.44	23	14	9	0	0	0	0	0	0	0	2	0	6.29	97		
East Bergholt		9 9	14	15.9	5.9	10.9	-	22.8	31	1.1	20	-	2.18	-	.55	23	17	11	0	0	0	0	0	0	0	10	0	-	-		
Suffolk	Wattisham	21-9	292	14.6	5.8	10.2	-	24.0	31	1.3	20	-	1.76	-	.52	23	14	7	0	0	0	1	0	0	0	5	0	-	-		
	Lowestoft	9 9	82	13.4	6.8	10.1	-0.8	17.2	31	1.7	4	11.3	9.7	2.37	159	.39	23	16	13	0	0	1	0	2	0	0	3				



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n			Number of days							Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount		Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1	Grass min below 0° C	Gale																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				Max.	Min.		°C.	°C.	°C.	°C.	°C.	°C.	in.		%	in.															hr	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
4 MIDLAND COUNTIES—cont.				G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days												BRIGHT SUNSHINE				
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min below 0° C.	Gale	Daily Mean	Per-centage of Average		
			A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	0.01 in. (0.2 mm.) or more	0.01 in. (0.2 mm.) or more													
			Max.	Min.			Max.	Date	Min.	Date	in.	%			in.																
5 ENGLAND, S.E.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.														hr	%		
Surrey	21-9	18	15.4	7.8	11.6	-0.9	25.4	31	3.8	2	11.9	10.5	1.52	84	.25	28	12	10	0	0	0	0	0	0	0	0	4	0	6.63	103	
—cont.	21-9	192	15.4	5.3	10.3	-	25.8	31	0.4	4	-	-	1.56	-	.30	14	13	11	0	0	0	0	0	0	0	0	8	0	6.06	-	
Waddon	9 9	220	15.6	6.6	11.1	-1.1	25.6	31	2.2	4	-	-	1.92	101	.48	23	13	11	-	-	-	-	-	-	-	-	-	-	-	-	
Addington	9 9	474	15.0	6.6	10.8	-0.9	25.0	31	1.7	2	-	-	2.07	103	.47	23	15	11	-	-	-	-	-	-	-	-	-	-	-	-	
Bromley	9 9	213	15.9	6.9	11.4	-1.0	24.4	31	2.8	2	-	-	1.76	95	.52	23	11	9	-	-	-	-	-	-	-	-	-	-	-	-	
Swanley	9 9	177	16.1	6.0	11.1	-	23.9	31	1.7	4, 26	11.6	-	1.89	-	.62	23	12	10	0	0	0	0	0	0	0	0	4	0	5.89	-	
Dartford	9 9	17	15.8	6.5	11.1	-	23.3	31	1.7	4	-	-	1.64	101	.53	23	11	11	0	0	0	0	0	0	0	0	-	-	-	-	
Tunbridge Wells	9 9	351	15.2	5.4	10.3	-1.4	25.6	31	1.1	4	12.3	10.8	2.08	100	.57	23	13	10	0	0	0	0	0	0	0	0	2	0	6.26	93	
Goudhurst	9 9	280	15.3	5.3	10.3	-	26.7	31	0.6	4	-	-	2.19	104	.47	23	15	11	0	0	0	0	0	0	0	0	5	0	-	-	
East Malling	9 9	122	15.4	5.7	10.5	-1.0	23.9	31	0.0	4	-	9.4	2.36	123	.48	27	15	13	0	0	0	0	0	0	0	0	1	0	6.34	97	
Gillingham	9 9	14	16.1	7.0	11.5	-	21.1	31	2.2	4	-	-	2.02	-	.64	27	13	9	0	0	0	0	0	0	0	0	-	-	5.85	-	
Sittingbourne	9 9	224	15.0	5.9	10.5	-	20.6	31	1.7	2	10.7	9.3	2.39	134	.56	23	15	10	0	0	0	0	0	0	0	0	4	0	6.58	-	
Isle of Grain	9 9	9	15.4	8.2	11.8	-	18.3	31	3.3	2	-	-	1.29	-	.44	23	12	7	-	-	-	-	-	-	-	-	-	-	6.49	-	
Faversham	9 9	157	14.7	6.2	10.5	-	19.4	31	2.2	4	11.3	9.5	2.40	-	.78	23	14	10	0	0	0	0	0	0	0	0	0	0	6.28	-	
Dungeness	21-9	10	13.5	7.0	10.3	-0.9	19.4	31	2.7	4	-	-	1.99	121	.49	23	13	10	0	0	0	0	0	0	0	0	-	-	-	-	
Wye	9 9	185	15.1	6.2	10.7	-0.9	22.2	31	1.1	4	-	-	2.98	142	.98	23	14	12	0	0	0	0	0	0	0	0	1	0	5.93	87	
Whitstable	9 9	9	14.7	7.3	11.0	-	18.9	8	3.3	26	-	-	2.05	141	.79	23	12	7	0	0	0	0	0	0	0	0	-	-	6.29	-	
Folkstone	9 9	128	14.6	7.4	11.0	-	25.6	31	3.3	2	-	10.1	2.44	143	.69	27	14	11	0	0	0	0	0	0	0	0	0	0	7.01	-	
Elmstone	9 9	28	15.4	5.8	10.6	-	23.9	31	1.7	4	-	-	1.94	-	.58	23	16	11	-	-	-	-	-	-	-	-	-	-	-	-	
Herne Bay	9 9	21	15.3	7.8	11.5	-	19.4	8	5.0	4, 6	-	-	1.70	110	.51	23	12	7	0	0	0	0	0	0	0	0	-	-	6.12	-	
Dover	9 9	19	14.1	7.8	10.9	-0.9	24.4	31	3.9	2	12.1	10.4	2.21	127	.54	23	16	13	0	0	0	0	0	0	0	0	2	0	6.70	- 5	
Dover R.M.S.	9 9	402	12.9	6.5	9.7	-	20.6	31	3.9	6	-	-	2.78	130	.80	23	16	15	-	-	-	-	-	-	-	-	-	-	-	-	
Deal	21-9	18	13.7	8.0	10.9	-	18.5	8	3.2	2	-	-	1.89	-	.59	23	16	12	0	0	0	0	0	0	0	0	0	0	0	-	-
Manston	21-9	145	14.4	6.7	10.5	-	22.2	31	2.7	4, 6	-	-	2.14	-	.65	23	13	8	0	0	0	0	0	0	0	0	2	0	-	-	
Ramsgate	9 9	80	13.8	7.9	10.9	-	18.9	31	4.4	2	-	-	2.40	151	.74	27	15	8	0	0	0	0	0	0	0	0	-	-	6.26	90	
Margate	9 9	51	13.8	8.2	11.0	-0.7	18.3	8	5.0	4, 6	11.7	9.9	2.16	151	.66	27	12	7	0	0	0	0	0	0	0	0	0	0	6.54	91	
Sussex	21-9	10	15.4	7.0	11.2	-	26.9	31	1.5	2	-	-	1.21	70	.20	14	13	9	0	0	0	0	0	0	0	0	2	0	6.97	-	
Haslemere	9 9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bognor Regis	9 9	24	14.1	7.5	10.8	-1.0	23.3	31	2.2	2	-	10.7	1.54	82	.56	27	11	9	0	0	0	0	0	0	0	0	0	0	7.21	102	
Fernhurst	9 9	188	15.3	5.9	10.6	-	26.7	31	0.0	4	-	-	1.26	-	.47	14	13	7	0	0	0	0	0	0	0	0	3	0	6.60	-	
Littlehampton	9 9	15	14.8	6.9	10.9	-1.0	25.6	31	2.2	4	-	10.7	1.79	99	.74	27	10	8	0	0	0	0	0	0	0	0	-	-	7.59	104	
Rustington	9 9	10	14.5	6.6	10.5	-	25.6	31	1.1	4	-	-	1.66	-	.66	27	12	8	-	-	-	-	-	-	-	-	-	-	6.82	-	
Worthing	9 9	25	14.5	7.8	11.1	-1.0	24.4	31	2.8	2	12.1	10.2	1.79	108	.74	27	14	8	0	0	0	0	0	0	0	0	2	0	7.06	95	
Brighton	9 9	32	14.2	7.9	11.1	-	25.6	31	2.8	2	-	10.9	1.59	98	.32	14, 27	12	8	0	0	0	0	0	0	0	0	1	0	6.94	96	
East Grinstead	9 9	400	15.6	5.5	10.5	-	25.6	31	1.1	4	-	-	9.8	(1.76)	-	.37	23	13	11	0	0	0	0	0	0	0	-	-	-	-	
Seaford	9 9	45	14.3	7.4	10.9	-	25.0	31	2.8	2	-	-	1.52	88	.33	14	8	7	-	-	-	-	-	-	-	-	-	-	7.06	96	
Eastbourne	9 9	23	13.8	7.8	10.8	-1.2	20.6	31	3.9	2	12.4	10.7	1.65	96	.32	14	12	8	0	0	0	0	0	0	0	0	1	1	7.73	104	
Eastbourne C/Guard	21-9	17	14.3	7.2	10.7	-	21.8	30	2.5	2	-	-	1.60	-	.28	14	12	10	0	0	0	0	0	0	0	0	0	0	0	-	-
Bexhill	9 9	12	14.1	7.6	10.9	-1.0	25.6	31	3.3	2, 4	12.5	-	1.76	102	.33	14	9	9	0	0	0	0	0	0	0	0	0	0	7.21	102	
Bodiam	9 9	73	15.4	5.6	10.5	-	26.1	31	0.6	4	11.9	9.5	1.99	-	.35	23, 27	13	10	-	-	-	-	-	-	-	-	-	-	6.70	-	
Hastings	9 9	149	14.2	7.6	10.9	-1.0	26.1	31	3.3	2	13.1	10.9	1.79	103	.43	23	13	8	0	0	0	0	0	0	0	0	0	0	7.32	101	
Berkshire	9 9	350	15.3	5.7	10.5	-	25.6	31	1.1	4	-	-	1.11	-	.16	12, 21	14	9	0	0	0	0	0	0	0	0	-	-	-	-	
Letcombe Regis	9 9	210	15.9	6.3	11.1	-	26.4	31	0.8	4	-	-	1.15	61	.24	21	12	9	0	0	0	0	0	0	0	0	2	0	6.58	-	
Abingdon	9 9	339	14.9	4.9	9.9	-	25.6	31	-1.7	4	11.6	-	1.17	-	.17	12	17	11	0	0	0	0	0	0	0	0	11	0	-	-	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE				
				Means of				Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n		Number of days										
				A	B	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%	in.	Date	-0.01 in. (0.2mm.) or more	-0.01 in. (0.2mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost t	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average
				Max.	Min.	Mean of A and B	%	Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%	in.	Date	-0.01 in. (0.2mm.) or more	-0.01 in. (0.2mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost t	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average
7a ENGLAND, N.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%	
Westmorland	Great Dun Fell	21-9	2780	6.5	1.2	3.3	-	16.4	31	-2.7	2	-	-	-	-	-	-	-	-	0	-	-	-	14	8	-	-	-	-	
	—cont. Moor House	9 9	1825	9.6	1.6	5.6	-	18.9	31	-2.2	4, 28	6.1	-	6.38	-	1.21	20	23	21	-	3	-	-	4	7	14	-	5.08	-	
Lancashire	Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Squires Gate	21-9	33	13.9	7.2	10.5	-	25.6	31	1.6	4	-	-	1.24	53	.33	20	14	12	0	0	0	0	0	0	4	0	7.03	102	
	Urswick	9 9	130	14.1	5.9	10.0	-	24.4	31	1.1	4	-	-	2.37	-	.63	20	17	14	1	0	2	0	0	1	0	-	-		
	Southport	9 9	16	13.9	6.6	10.3	-	24.4	31	1.7	4	11.5	8.8	1.45	-	.36	20	15	10	-	-	-	-	0	0	1	-	6.55	-	
	Poulton-le-Fylde	9 9	38	13.9	7.1	10.5	-	25.0	31	2.2	4	-	-	1.95	-	.66	20	18	13	0	0	1	0	0	0	-	-	-		
	Grizedale	9 9	300	13.3	4.2	8.7	-	23.9	31	-0.6	4	9.4	-	5.47	-	1.24	20	18	17	0	0	0	0	0	0	1	8	0	-	
	Speke	21-9	80	14.5	7.5	11.0	-	25.7	31	3.3	6	-	-	1.67	73	.63	10	16	7	0	0	3	0	1	0	0	0	5.29	-	
	Kirkham	9 9	78	13.9	6.5	10.2	-	24.4	31	1.7	4	-	-	1.91	75	.64	20	17	11	0	0	0	0	0	0	6	0	6.06	-	
	Garstang	9 9	68	13.6	6.2	9.9	-	23.3	31	-1.1	4	-	-	2.17	-	.79	20	16	13	-	-	-	-	0	1	2	-	6.59	-	
	Morecambe	9 9	24	13.6	7.3	10.5	-1.1	25.0	31	4.4	4, 24	-	-	1.67	72	.41	20	17	12	0	0	0	0	0	0	0	-	6.57	97	
	Preston	9 9	108	14.2	6.9	10.5	-	23.9	31	1.7	4	-	-	2.16	82	.60	10	17	12	0	0	0	1	1	0	0	3	0	-	-
	Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stonyhurst	9 9	377	13.9	6.0	9.9	-1.0	23.9	31	1.7	4	-	-	2.35	84	.41	20	17	13	-	0	-	-	-	0	0	1	-	5.89	95
Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Helmshore	9 9	854	12.4	5.2	8.8	-	22.2	31	1.7	4, 5	8.9	-	3.26	90	.94	10	17	13	-	0	-	-	-	1	0	1	-	5.15	-	
Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Cheshire	Burnley	9 9	655	13.1	5.4	9.3	-	22.8	31	1.1	4	9.2	(7.7)	2.19	-	.37	10	15	15	0	0	3	0	1	0	0	3	0	4.38	-
	Nelson	9 9	540	13.2	5.7	9.5	-	22.8	31	1.1	4	9.4	7.4	1.88	69	.31	10	18	12	-	0	-	-	-	0	0	9	-	5.17	-
	Rochdale	9 9	362	13.6	5.8	9.7	-	23.3	31	0.0	4	-	-	3.16	-	.77	10	17	15	0	0	1	0	1	0	0	0	4.94	-	
	West Kirby Park	9 9	25	14.8	7.5	11.1	-0.4	25.6	31	3.3	4	-	-	.90	-	.31	10	12	7	-	-	-	-	-	0	0	-	6.55	-	
	Bidston Obs'y.	9 9	198	13.7	7.5	10.6	-0.7	24.4	31	5.0	2, 5, 6	-	-	.87	38	.34	10	13	6	-	-	-	-	-	0	0	-	6.74	107	
	Winnington	9 9	65	15.3	7.4	11.3	-	25.6	31	2.2	4	-	-	1.67	76	.71	10	17	11	0	0	0	0	0	0	2	3	-	-	
	Knutsford	9 9	212	14.9	6.2	10.5	-	25.0	31	1.1	4	11.1	9.1	2.27	-	.58	10	18	14	-	-	-	-	-	0	0	5	-	-	
	Ringway	21-9	248	14.2	6.6	10.4	-0.7	25.6	31	1.9	4	-	-	1.61	72	.41	10	18	15	0	0	0	0	2	0	0	0	5.88	103	
Macclesfield	9 9	500	14.0	5.4	9.7	-1.4	22.8	31	1.7	4, 6	-	-	2.71	108	.67	10	19	15	0	0	4	0	2	0	0	-	-	-		
7b NORTH WALES																														
Flint	Rhyl	9 9	31	14.1	7.5	10.8	-0.5	25.6	31	2.8	23	-	-	.55	25	.12	24	13	5	0	0	0	0	0	0	0	0	6.70	103	
	Prestatyn	9 9	12	14.1	7.4	10.7	-	25.6	31	3.9	23	-	-	.49	22	.17	10	13	4	0	0	0	0	0	0	0	-	5.53	89	
Anglesey	Hawarden Bridge	9 9	17	15.2	7.0	11.1	-0.5	25.6	31	0.6	6	-	-	.99	47	.28	21	11	7	0	0	0	0	0	0	0	-	-	-	
	Valley	21-9	26	12.9	7.1	10.0	-1.0	25.1	31	2.3	23	-	-	2.12	83	.44	30	16	11	0	0	0	0	1	0	0	1	3	6.67	93
Denbigh	Alwen	9 9	1100	11.8	3.8	7.8	-	22.8	31	-2.8	23	-	-	3.02	-	.68	10	19	15	-	-	-	-	-	2	10	-	-	-	
	Ruthin	9 9	248	14.1	6.2	10.1	-	23.3	31	1.7	4, 23	-	-	1.12	-	.19	20	13	11	-	-	-	-	-	0	0	-	-	-	
Caernarvon	Loggerheads	9 9	690	13.2	5.4	9.3	-	23.3	31	1.1	6, 23	9.7	8.6	1.86	-	.50	10	18	10	0	0	4	0	0	0	0	3	0	-	-
	Bwlchgwyn	9 9	1267	11.7	4.4	8.1	-	22.2	31	1.1	2	7.9	-	2.00	-	.51	10	16	12	0	0	0	2	0	0	0	8	0	-	-
	Wrexham	9 9	275	15.4	6.1	10.7	-	24.4	31	-1.7	9	10.4	8.8	1.13	-	.38	21	12	9	0	0	0	0	0	0	1	6	0	-	-
	Bardsey Island	21-9	60	11.7	7.6	9.7	-	21.8	31	5.2	23	-	-	2.11	-	.34	30	12	12	-	-	-	-	-	0	0	0	-	-	
	Botwnnog	9 9	112	13.2	6.8	10.0	-	23.9	31	3.3	4, 23	11.4	9.6	3.15	-	.47	29	17	15	0	0	0	0	1	0	0	0	1	6.85	-
	Bryn Adda	9 9	275	13.2	6.7	9.9	-	24.4	31	2.2	23	-	-	2.23	-	.31	4	20	14	0	0	0	0	1	0	0	0	0	5.95	-
	Cwm Dyli	9 9	324	12.7	6.6	9.7	-	25.0	31	0.6	23	9.4	-	11.77	-	2.22	10	22	21	-	-	-	-	-	0	0	3	-	-	
	Aber	9 9	60	14.2	7.4	10.8	-0.5	25.0	31	2.8	23	-	-	2.31	88	.42	9	16	12	0	0	0	0	1	0	0	2	1	5.81	88
	Llandudno	9 9	13	13.4	7.9	10.7	-0.6	25.0	31	4.4	4	-	-	.98	47	.24	21	14	8	0	0	0	1	1	0	0	-	6.92	102	
	Merioneth	Llyn Stwlan	9 9	1656	8.8	2.9	5.9	-	20.6	31	-1.1	6	-	-	7.95	-	1.51	20	22	20	-	-	-	-	-	2	0	-	-	-
Montgomery	Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Blaenau Ffestiniog	9 9	750	-	6.1	-	-	-	-	3.3	2, 4, 6	-	-	7.09	-	1.30	20	21	20	0	0	0	0	1	2	0				



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER May 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of				Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day		Precip'n		Number of days								Daily Mean	Percentage of Average		
			A		B		Mean Temperature of A and B	Difference from Average	Maximum	Date	Minimum	Date			Amount	Date	-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hall	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale			
			Max.	Min.	Max.	Min.						1 ft.	4 ft.																	
8b ENGLAND, S.W.—cont.			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	hr	%
Somerset Long Ashton ...	9 9	162	15.1	6.7	10.9	-0.9	26.1	31	1.7	4	11.9	-	1.53	60	.30	8	16	9	0	0	0	0	0	2	0	6	0	6.07	97	
—cont. Wincanton ...	9 9	375	14.9	6.1	10.5	-	25.6	31	0.0	2	-	-	1.94	-	.26	23	16	12	0	0	0	1	1	0	0	0	0	-	-	
Bath City Boys' School	9 9	388	14.6	6.1	10.3	-	25.0	31	2.8	2	-	-	1.91	-	.63	8	15	9	0	0	0	0	0	0	0	0	0	-	-	
Bath ... §§	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Dorset Lyme Regis ...	9 9	200	14.7	6.7	10.7	-	25.6	31	2.8	6	-	-	1.66	-	.29	14	16	12	0	0	0	0	1	1	0	0	1	5.79	5	
Portland Bill ...	21-9	35	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Weymouth ...	9 9	16	16.0	7.9	11.9	-0.3	24.4	31	3.9	2	-	-	1.34	69	.34	14	15	10	-	0	0	0	0	0	0	0	0	7.63	105	
Winfrith ...	9 9	85	14.9	6.3	10.6	-	25.6	31	1.7	4	-	-	1.24	-	.25	14	13	11	-	0	0	0	0	0	0	3	-	-	-	
Shaftesbury ...	9 9	680	13.8	5.3	9.5	-1.4	25.0	31	1.7	2	-	-	1.73	81	.25	14	16	13	-	0	0	0	2	0	0	0	0	-	-	
Swanage ...	9 9	37	14.4	7.0	10.7	-	22.8	31	2.8	2, 5, 6	10.7	-	1.19	-	.30	14	13	7	0	0	0	0	0	0	0	2	1	7.48	102	
Poole ...	9 9	18	16.6	6.2	11.4	-	27.8	31	1.7	2, 5	-	-	1.09	-	.26	12	14	10	0	0	0	0	0	0	0	0	0	6.85	97	
Devon Clawton ...	9 9	412	14.3	5.8	10.1	-	24.4	31	0.0	4	-	-	1.85	-	.44	14	12	0	0	0	0	1	0	0	0	0	0	-	-	
Hartland Point ...	21-9	298	11.8	8.6	10.2	-	22.1	31	6.2	2	-	-	1.78	-	.44	14	15	10	0	0	0	0	1	3	0	0	3	7.13	103	
Mount Batten ...	21-9	87	13.7	7.8	10.7	-1.0	24.7	31	3.9	4	-	-	2.02	85	.34	14	16	13	0	0	0	0	1	0	0	1	0	6.41	91	
Plymouth, The Hoe	9 9	119	14.7	7.9	11.3	-0.9	25.0	31	4.4	4	12.2	10.7	2.15	91	.32	13	16	13	0	0	0	0	1	1	0	0	0	6.69	94	
Tavistock ...	9 9	457	14.6	6.3	10.5	-0.9	24.4	31	1.1	4	-	-	1.90	-	.35	12	13	11	0	0	0	0	0	0	0	12	2	-	-	
Chivenor ...	21-9	20	14.8	7.9	11.3	-	26.1	31	3.4	4	-	-	1.13	-	.30	8	15	8	0	0	0	0	1	0	0	0	1	6.47	-	
Ilfracombe ...	9 9	25	13.7	8.8	11.3	-0.7	23.9	31	6.7	2, 23	13.0	11.4	1.73	77	.36	20	13	10	0	0	0	0	0	0	0	0	0	6.83	97	
Totnes ...	9 9	120	15.2	6.3	10.7	-	24.4	31	0.6	4	11.9	9.7	1.85	63	.33	12	16	12	0	0	2	0	1	0	0	12	0	5.78	-	
Slapton ...	9 9	104	14.4	7.5	10.9	-	22.8	31	3.3	4	-	-	1.59	-	.29	14	13	9	0	0	0	0	0	0	0	0	0	-	-	
Newton Abbot ...	9 9	272	15.0	6.8	10.9	-0.7	24.4	31	3.3	4, 6	-	-	1.29	51	.27	12	12	9	0	0	0	0	0	0	0	0	0	6.38	100	
Paignton ...	9 9	8	15.3	7.5	11.4	-	22.8	31	4.4	6, 9	-	-	1.47	59	.24	27	16	11	0	0	0	0	1	0	0	0	0	6.65	97	
Torquay ...	9 9	26	15.2	7.9	11.5	-0.6	25.0	31	2.8	4	-	-	1.17	52	.23	12	14	10	0	0	0	0	1	0	0	1	1	6.75	94	
Teignmouth §§	9 9	20	15.0	8.6	11.8	-0.3	23.3	31	3.9	4	-	-	.91	40	.18	14	10	6	0	0	0	0	0	0	0	0	0	7.06	101	
Starcross ...	9 9	29	-	7.2	-	-	-	-	3.9	1, 6, 23	11.8	-	.91	39	.19	8	10	7	0	0	0	0	0	0	0	4	0	6.83	-	
Exeter, Southam	9 9	160	14.9	6.7	10.8	-	25.0	31	1.7	4	-	-	1.20	-	.21	13	11	9	0	0	0	0	0	0	0	0	0	-	-	
Exmouth ...	9 9	195	14.7	7.3	11.0	-0.3	25.6	31	3.9	2, 4	-	-	1.04	45	.17	14	11	7	0	0	0	0	0	1	0	0	0	6.37	94	
Exeter ...	21-9	106	15.0	6.9	10.9	-	25.3	31	1.6	4	-	-	.97	44	.23	21	11	7	0	0	2	0	0	0	4	0	0	5.74	-	
Sidmouth ...	9 9	25	14.9	7.6	11.3	-0.1	25.0	31	3.9	2	-	-	.85	-	.26	14	11	7	-	0	-	-	0	0	0	0	0	6.53	99	
Cornwall St. Mary's, Scilly	21-9	158	10.3	8.8	9.5	-2.2	16.8	25	6.8	24	-	-	1.35	62	.25	8	15	8	0	0	0	0	1	1	0	-	2	7.46	99	
Penzance ...	9 9	62	14.2	8.3	11.3	-0.9	21.7	31	2.8	24	-	-	1.72	71	.23	8, 9	15	12	0	0	0	0	0	0	0	0	1	7.35	104	
Gulval ...	9 9	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Culdrose ...	9 9	268	13.3	7.5	10.4	-	21.1	31	2.2	24	-	-	.98	-	.25	1	11	11	0	0	0	0	0	2	0	2	0	7.29	-	
Rosewarne ...	9 9	250	13.5	8.1	10.8	-	20.6	31	4.4	24	11.9	10.7	1.63	70	.27	9	14	12	0	0	0	0	0	1	0	1	3	6.84	-	
Lizard ...	9 9	240	13.1	7.8	10.5	-	18.2	31	4.5	2, 23	-	-	1.53	77	.33	12	15	10	-	-	-	-	-	-	-	-	-	-	-	
Falmouth §§	9 9	167	13.8	8.1	10.9	-1.0	21.6	31	4.4	24	-	-	1.26	49	.25	8	11	8	0	0	0	0	0	0	2	0	0	7.09	100	
Newquay ...	9 9	176	13.7	8.4	11.1	-0.4	19.4	25	2.8	24	-	-	1.54	71	.30	31	18	12	0	0	0	0	0	0	0	0	0	6.93	99	
St. Mawgan ...	21-9	337	13.2	7.8	10.5	-	20.6	31	3.8	24	-	-	1.43	-	.25	8, 14	15	10	0	0	0	0	2	0	0	0	0	7.00	-	
St. Austell ...	9 9	310	14.3	7.7	11.0	-	23.3	31	3.9	24	-	-	1.41	46	.32	14	15	11	0	0	0	0	0	0	0	0	0	-	-	
Fowey ...	9 9	51	14.8	8.0	11.4	-0.7	21.1	31	2.8	24	-	-	1.32	-	.26	14	16	11	0	0	0	0	1	3	0	-	0	-	-	
Bude ...	9 9	50	13.7	7.7	10.7	-0.7	22.8	31	1.7	24	11.1	-	1.32	63	.43	14	12	9	-	0	-	-	3	0	-	-	0	6.73	98	
Ellbridge ...	9 9	190	14.5	6.6	10.5	-1.2	25.0	31	1.1	4	-	-	1.79	69	.34	31	17	12	0	0	0	0	0	0	0	4	0	6.44	95	
NORTHERN IRELAND																														
Londonderry Loughmore Forest	9 9	572	12.4	4.7	8.5	-	20.6	31	0.0	23	-	-	4.62	-	.43	16	25	22	0	0	0	0	0	0	1	8	0	-	-	
Ballykelly §§	21-9	3	13.4	6.6	10.0	-0.7	21.2	31	2.3	23, 27	-	-	2.99	138	.35	9	23	17	0	0	5	0	0	0	0	3	1	6.17	96	
Derrynoyd Forest	9 9	292	13.5	5.1	9.3	-	19.4	31	0.0	23	-	-	4.09	-	.91	9	23	20	0	0	0	0	0	0	0	10	0	-	-	
Somerset Forest	9 9	142	13.3	5.6	9.6	-	21.1	31	0.6	23	-	-	3.31	-	.33	10	20	20	0	0	4	0	0	0	0	4	0	-	-	
Garvagh Forest	9 9	292	13.4	5.0	9.2	-	20.0	31	0.0	23, 24	-	-	4.02	-	.63	9	24	21	1	0	1	0	0	0	0	3	0	-	-	
Moneydig §	9 9	121	13.4	5.6	9.5	-1.4	20.6	31	-0.6	24	11.0	-	3.27	119	.41	9	23	18	1	0	3	1	1	0	1	13	0	-	-	
Antrim Portrush ...	-	18	-	-	-	-	-	-	-	-	-	-	2.72	-	.40	10	22	16	-	-	-	-	-	-	-	-	-	6.54	-	
Aldergrove §§	21-9	217	13.2	5.4	9.3	-1.2	20.2	31	1.0</																					



[illegible]







[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS May 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
											0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
																															8 or more	22 to 33	6, 7, 8	4, 5, 6	1 to 3									Calms																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	812	29	168	4	418.8	31	349	18	147	12	256.7	31	685	29	218	11	466.2	31
Eskdalemuir Observatory ...	802	29	64	12	416.8	31	410	26	63	12	219.6	31	864	29	80	12	456.0	31
Cambridge ...	711	26	130	29	432.9	31	324	27	130	29	251.5	31	-	-	-	-	-	-
Kingsway ...	730	26	115	12	433.8	31	299	8	109	12	235.0	31	787	31	138	12	472.3	31
Kew Observatory ...	702	26	131	23	447.7	31	358	22	126	1	244.2	31	773	31	153	23	488.0	31
Aberporth ...	802	27	185	12	523.0	31	411	16	184	12	285.3	31	-	-	-	-	-	-
Aberporth radiation data for the period March to December 1958 has been found to be unreliable																		

TABLE VIII—NUMBER OF DAYS IN May 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								STATION	MINIMUM TEMPERATURE °C.							
	0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°		0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°
Lerwick Observatory ...	0	0	16	15	0	0	0	0	0	0	0	0	0	0	0	0	0
Stornoway ...	0	0	4	26	1	0	0	0	0	0	0	0	0	0	0	0	0
Craibstone ...	0	0	5	24	2	0	0	0	0	0	0	0	0	0	0	0	0
Rothsay ...	0	0	5	21	5	0	0	0	0	0	0	0	0	0	0	0	0
Renfrew ...	0	0	3	20	7	1	0	0	0	0	0	0	0	0	0	0	0
Eskdalemuir Observatory ...	0	0	10	14	6	1	0	0	0	0	0	0	0	0	0	0	0
Douglas ...	0	0	8	19	3	1	0	0	0	0	0	0	0	0	0	0	0
Cockle Park ...	0	0	2	24	4	1	0	0	0	0	0	0	0	0	0	0	0
Gorleston ...	0	0	3	25	3	0	0	0	0	0	0	0	0	0	0	0	0
Cambridge ...	0	0	0	15	14	1	1	0	0	0	0	0	0	0	0	0	0
Edgbaston ...	0	0	2	19	9	1	0	0	0	0	0	0	0	0	0	0	0
Kew Observatory ...	0	0	0	19	9	2	1	0	0	0	0	0	0	0	0	0	0
Hastings ...	0	0	2	21	6	2	0	0	0	0	0	0	0	0	0	0	0
Southampton ...	0	0	0	12	16	2	1	0	0	0	0	0	0	0	0	0	0
Stonyhurst ...	0	0	3	19	8	1	0	0	0	0	0	0	0	0	0	0	0
Redston ...	0	0	3	21	6	1	0	0	0	0	0	0	0	0	0	0	0
Valley ...	0	0	0	27	3	0	1	0	0	0	0	0	0	0	0	0	0
Falmouth ...	0	0	0	23	7	1	0	0	0	0	0	0	0	0	0	0	0
Aldergrove ...	0	0	3	23	4	1	0	0	0	0	0	0	0	0	0	0	0
Armagh ...	0	0	1	20	9	1	0	0	0	0	0	0	0	0	0	0	0

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum			Total Fall			Percentage of Average	Most in a day		Precip'n -0.1in (0.2mm.) or more -0.04in (1.0mm.) or more	Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h	Air Frost	Grass min below 0° C.	Gale	Daily Mean	Percentage of Average	
				A Max.	B Min.			Maximum	Date	Minimum		Date	Amount		Date														
				ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%
1962																													
June	Somerset Forest	9 9	142										1.59				19	13											
July	"	9 9	142										1.81				13	7											
September	"	9 9	142										5.49				16												
October	"	9 9	142										2.01				9												
November	"	9 9	142										3.65				12												
1963																													
January	Halesowen	9 9	505								(1.9 5.2)																		
"	Auchterhouse	9 9	760										2.11				10												
"	Somerset Forest	9 9	142										1.05				7												
"	Sutton Bonington	9 9	157										.83	38			10	6							1.62	119			
"	Onecote	9 9	1350	-1.8	-5.4	-2.5	-5.6						1.66		.23	4.30	11	11							2.39	-			
"	Newport	9 9	211																						1.88	128.5			
"	Lyonsall	9 9	510																										
"	Cirencester	9 9	443																										
"	Waddon	9 9	220										.70	27			10	7							2.11				
"	Isle of Grain	9 9	9										.63				8	4											
"	Cwystwyth	9 9	989																										
February	Halesowen	9 9	505								(1.3 3.9)																		
"	Somerset Forest	9 9	142										1.69				13	8											
"	Chesterfield	9 9	298	0.1	-5.7	-2.8	-	5.6	8	-12.2	25		.73		.44	6	4	4	15	28	0	0	0	12	28	-	0	-	-
"	Belper	9 9	203										.31	14	.15	6	5	3											
"	Nottingham	9 9	192																										
"	Rugby	9 9	385	0.9	-3.8	-1.5	-4.9						.38				15	4											
"	Onecote	9 9	1350										1.22				10	8											
"	Lyonsall	9 9	510										1.60		.34	15	11	10											
"	Waddon	9 9	220	2.0	-1.7	-0.5	-4.8						.44	22	.23	22	5	2											
"	Ramsgate	9 9	80	1.2	-1.7	-0.3	-	3.9	8	-4.4	3.6		.54	36	.22	7	10	4	14	12	0	0	0	4	27	-	2.75	103	
"	Cwystwyth	9 9	989																										
March	Halesowen	9 9	505								(3.6 4.0)																		
"	Largs	9 9	1000	8.2	0.7	4.5	-	11.1	8,15,20	-5.6	2		6.96		.75	24	21	20											
"	Achnagoichan	9 9	350	9.2				5.7				3.6	1.77		.26	8	21	16											
"	Stone	9 9	443	8.9	2.9	5.9	-	13.9	14																				
"	Cirencester	21 9	10	7.3	2.8	5.1	+0.7	12.5	31																				
"	Dungeness	9 9	339	9.6																									
"	Compton	9 9	18	10.4	2.6	6.5	-	13.9	18,25	-3.9	24		4.24		.48	17	16	15	0	0	0	0	0	0	5	-	0	3.98	93

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



Volume 80 Number 6

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## June 1963 — *Warm and thundery becoming cool and unsettled.*

The first twelve days were warm, thundery and predominantly anticyclonic but thereafter troughs and depressions from the Atlantic maintained cool, changeable mainly cyclonic weather for the rest of the month.

The month opened with a large anticyclone over Scandinavia, and the warm sunny weather which started towards the end of May continued into June. Temperatures in many sheltered places in southern England reached 27°C on the 1st, but the 2nd was 2-3°C cooler as small disturbances moving into the Bay of Biscay brought freshening easterly winds.

Pressure remained high to the north and low to the south of the British Isles until the 10th. Winds over the country were mainly easterly and weather generally warm and sunny except in north-east coastal districts where, with a moist off-sea airstream, it was cooler with a good deal of fog and low cloud. Although many places remained dry, thundery rain occurred locally on most days, thunderstorms being rather widespread and heavy at times on the 6th and 7th. Bristol had 1½ inches of rain during a storm on the 6th, and on the 7th there was flooding at Kensington Palace where 2½ inches fell in 35 minutes.

On the 11th pressure rose over the Bay of Biscay and winds over the British Isles became light and variable. Temperatures in many Midland and western districts had risen daily to around 25°C since the 6th; with the dying-away of the easterly winds this warm weather extended to eastern districts as well.

However, the change heralded the gradual break-down of the warm spell. Low cloud and sea fog became persistent in many southern and south-western coastal districts, and a thundery trough moving south-east gave over an inch of rain in parts of Northern Ireland on the 12th and equally heavy falls in southern England on the 13th. Afternoon temperatures on the 13th were generally about 8°C lower than on the previous day.

The 14th was a mainly dry day, but a depression from the Atlantic became slow-moving near Iceland on the 15th as it increased in intensity, and associated troughs brought rain to most districts that night and the following day. Thereafter until the 25th winds were predominantly westerly and weather changeable and cool, with rain and local thunder, as a succession of disturbances moved east across the country. Rain was heavy in many places on the 17th with the approach of a depression from the Atlantic and the transfer of the main centre of low pressure southward towards Scotland. There were frequent squally showers on the 18th as the depression moved further south-eastwards into the North Sea; wind reached gale force in places and gusts exceeding 50 kt were recorded in north-west England and the Channel Islands. Minor wave disturbances from the Atlantic maintained generally dull weather with occasional rain on the 19th and 20th, particularly in southern England. After two days of scattered showers with good sunny periods, a depression became established off western Scotland and an associated belt of frontal rain moved eastwards across the country on the 23rd and 24th. Rain was again heavy in many places on the 25th as the main centre of low pressure moved across northern England to the North Sea.

Wind veered to north behind the depression and on the 26th many places in northern Scotland had more than an inch of rain.

A showery northerly airstream persisted on the 27th but rain became more general on the 28th and 29th as a depression from the Low Countries moved first to north-east England and then south-westward to Cornwall where it remained on the 30th maintaining dull weather with occasional rain over much of the country.

**Pressure and Wind** — Mean pressure was below the average everywhere except in the extreme north, the deviation at 9 hr ranging from +0.6 mb at Lerwick to -4.9 mb at Ross-on-Wye and Mount Batten. Surface winds were mainly easterly until the 10th, rather variable on the 11th-14th, generally westerly on the 15th-25th and mainly north-east during the remainder of the month. Winds reached gale force locally in Scotland on 5 days, and in England and Wales on the 2nd, 3rd, 18th-20th, 24th, 25th, 28th and 29th (9 days); a gust of 54 kt was recorded at Spadeadam on the 29th.

**Temperature** — A feature of the month was the high day temperatures during the second week and the low day temperatures during the latter part of the month; over the month as a whole mean temperature was slightly above the 1931-60 average, the excess being 0.1°C over England and Wales, 0.2°C over Northern Ireland and 0.5°C over Scotland.

Extremes included (England and Wales) 28.3°C at St. James' Park on the 10th, 0.6°C at Llyn Stwlan on the 24th; (Scotland) 27.2°C at Balmacara and Kinlochewe on the 1st, -0.8°C at Glenmore Lodge on the 3rd; (Northern Ireland) 26.1°C at Lough Navar Forest on the 1st, 2.8°C at Loughermore Forest on the 15th.

**Precipitation** — The general rain fall expressed as a percentage of the 1916-50 average was 154 over England and Wales, 118 over Scotland and 147 over Northern Ireland. There was less than average rainfall in South Devon, East Anglia and locally in north Lincolnshire, but more than twice the average in Somerset, Wiltshire, north London, Herefordshire and the East Riding of Yorkshire. In Scotland rainfall was less than the average in most western districts and less than half the average in the north-west. In most areas there was little or no rain during the first ten days apart from thunderstorms, but weather was generally wet and unsettled thereafter.

Thunder was heard in Scotland on 15 days and in England and Wales on the 5th-9th, 12th, 13th, 17th-19th and 25th-30th (16 days). Thunderstorms were widespread on the 6th and 7th and on the 12th and 13th. At many places in south-east England thunder was heard on 7 days; at Bovingdon it was heard on 10 days.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 94 in England and Wales, 91 in Scotland and 101 in Northern Ireland. In Scotland sunshine exceeded the average in the west and north-west but the east coast was extremely dull. Many places in central England had around 15 hours of sunshine every day during the first 10 days but the remainder of the month was mainly dull.

**Fog** — In Scotland morning fog occurred at one place or another on 18 days, in England and Wales it occurred on most days after the 6th. Patches of sea fog also occurred in coastal areas during the first 12 days.

**Miscellaneous Phenomena** — The aurora was not seen during the month.

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TABLE I—DISTRICT VALUES— June 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	°C. 27.2	°C. -0.8	°C. +0.5	°C. +0.8	°C. +0.7	°C. —	°C. —	% 103	-2	% 92
Eastern 1 SCOTLAND, E.	26.1	0.6	-0.4	+0.4	0.0	—	—	166	+5	82
2 ENGLAND, N.E.	27.2	1.7	-0.6	+0.5	-0.1	-0.2	-0.3	182	+4	90
3 ENGLAND, E.	27.8	3.9	-0.4	+0.3	-0.1	-0.1	-0.3	135	+2	92
4 MIDLAND COUNTIES	28.0	2.8	0.0	+0.6	+0.3	+0.4	+0.2	158	+4	105

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	°C. 28.3	°C. 4.4	°C. -0.6	°C. +0.5	°C. -0.1	°C. -0.3	°C. -0.4	% 173	+4	% 84
Western 6 SCOTLAND, W.	26.7	1.7	+0.5	+0.9	+0.7	+0.3	-0.7	99	+1	99
7 ENGLAND, N.W. (and N. Wales)	27.2	0.6	+0.3	+0.6	+0.5	-0.5	-0.3	152	+5	103
8 ENGLAND, S.W. (and S. Wales)	26.7	2.8	-0.2	+0.7	+0.3	0.1	+0.1	144	+6	92
NORTHERN IRELAND	26.1	2.8	+0.5	0.0	+0.2	-	-	141	+2	101

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— June 1963 (1914)

DISTRICT, COUNTY AND PLACE	Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Highest Velocities						
	Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots		4 to 10 knots		Less than 4 knots		Mean Hourly Wind Speed		Highest Hourly Wind		Highest Gust		
				Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Duration	knots	°	knots	day hr	knots	day h.m.	
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	hr.	hr.							
SCOTLAND																				
0 Zetland	Lerwick Observatory	304	33	33	-	0	4	66	211	391	52	0	10.4	020	28	23	08	42	28	1500
Orkney	Kirkwall	134	50	33	-	0	3	10	258	368	84	0	9.4	260	24	19	19	34	19	1640
Caithness	Dounreay	110	39	30	-	0	1	5	308	407	0	0	10.2	150	24	1	17	32	1	1645
Ross & Cromarty	Stornoway (Coastguard)	120	40	36	-	0	15	85	340	169	127	0	12.1	230	27	15	11	45	16	1050
Inverness	Benbecula	125	65	55	-	0	3	12	274	311	110	13	9.2	340	26	27	05	38	27	0610
1 Moray	Lossiemouth	69	51	35	-	0	11	69	308	292	51	0	11.8	270	29	19	02	40	19	0055
Aberdeen	Dyce	101	80	60	-	0	1	1	158	342	218	1	6.7	250	22	19	13	38	19	1235
Angus	Auchterhouse	225	40	40	-	0	0	0	148	248	324	0	5.5	290	21	19	14	29	19	1300
Perth	Bell Rock Lighthouse	822	62	50	-	0	1	1	244	272	188	15	7.9	280	23	19	11	38	29	1030
Fife	Rannoch	128	131	124	29	2	14	82	339	170	127	0	12.3	020	35	29	08	43	29	0745
Midlothian	Leuchars	1006	56	57	-	0	5	15	332	175	119	79	10.4	260	28	19	06	38	19	0555
Edinburgh, Blackford Hill	Turnhouse	78	40	40	-	0	2	8	316	303	93	0	9.8	050	24	29	10	40	29	0840
6a Argyll	Edinburgh, Blackford Hill	137	40	33	-	0	3	5	266	374	75	0	9.2	050	24	29	10	37	29	0935
Bute	Tiree	496	50	34	7	0	9	93	308	221	98	0	12.3	360	32	28	19	45	27	0210
Renfrew	Millport	89	60	47	-	0	4	23	164	267	264	0	7.3	060	35	6	09	43	6	0945
Renfrew	Paisley	50	34	34	5	2	4	23	164	267	264	0	7.3	060	35	6	09	43	6	0945
Renfrew	Paisley	188	81	31	-	0	0	0	201	422	97	0	8.1	010	20	29	10	48	29	0940
Lanark	Renfrew	71	41	39	-	0	1	1	191	395	133	0	7.6	080	22	5	15	33	29	0945
Ayr	Lowther Hill	2412	43	33	18, 19, 28, 29	20	20	183	318	163	23	8	16.9	050	45	29	09	59	29	0800
Dumfries	Prestwick Airport	68	33	33	-	0	2	2	248	376	94	0	8.9	070	23	6	10	34	18	1605
Wigtown	Esksdalemuir Observatory	825	50	35	-	0	1	1	156	392	171	0	7.1	280	25	18	16	47	29	1015
West Freugh	West Freugh	83	33	33	-	0	4	13	254	296	131	26	8.9	320	27	18	13	42	18	1530
ENGLAND AND WALES																				
6b Isle of Man	Ronaldsway	119	64	39	-	0	10	64	417	202	37	0	13.2	210	31	23	24	45	29	1205
2 Durham	Point of Ayre	70	40	35	-	0	4	21	308	295	96	0	9.7	320	28	18	12	41	18	1215
Lincoln	Durham	389	53	33	-	0	1	4	155	335	226	0	6.8	280	27	18	17	46	18	1720
3 Norfolk	South Shields	73	57	44	-	0	4	19	176	351	174	0	7.8	360	28	29	05	39	29	0410
Suffolk	Cranwell	288	47	47	-	0	1	7	279	344	90	0	9.4	270	26	18	15	45	18	1415
Bedford	Gorleston	45	33	33	-	0	1	2	337	351	30	0	10.4	190	26	25	16	38	16	1715
Hertford	Mildenhall	98	83	60	-	0	1	1	176	328	215	0	6.9	260	22	18	18	43	18	1740
Essex	Cardington	226	133	133	-	0	10	56	336	238	90	0	11.4	260	30	18	15	40	18	1625
Stansted	Garston	307	50	33	-	0	0	0	79	489	152	0	6.3	300	18	18	16	37	20	1420
Croyton	Rothamsted	461	41	33	-	0	0	0	74	377	269	0	5.5	270	15	18	16	40	18	1555
Shoeburyness	Stansted	358	31	31	-	0	3	4	342	325	49	0	10.3	270	24	16	17	35	20	1335
4 Yorks, W.R.	Croyton	66	57	48	-	0	0	0	220	425	75	0	8.4	280	18	18	17	40	18	1535
Warwick	Sheffield	118	106	91	-	0	9	88	353	264	14	1	13.4	070	33	2	15	45	2	1605
Stafford	Edgbaston	533	83	35	-	0	0	0	55	420	245	0	5.3	290	18	18	15	39	18	1450
Gloucester	Elmdon	643	118	73	-	0	0	0	137	502	81	0	7.6	280	20	18	15	34	18	1325
5 London	Keele	362	30	31	-	0	3	11	261	390	58	0	9.6	270	26	18	14	44	18	1355
Middlesex	Avonmouth	706	50	33	-	0	1	1	135	403	181	0	7.0	080	22	3	16	46	18	1735
Surrey	Kingsway	92	61	33	-	0	0	0	0	0	0	0	8.9	280	21	18	16	44	18	1530
Kent	London (Heathrow) Airport	208	143	41	-	0	4	10	305	392	13	0	10.2	070	25	2	17	38	25	1625
Sussex	Hampton	139	101	100	-	0	0	0	241	368	111	0	8.3	220	21	25	16	44	18	1250
Hampshire	Kew Observatory	92	75	50	-	0	1	1	189	404	126	0	7.9	080	22	2	16	42	25	1600
Berkshire	Gatwick	232	38	33	-	0	0	0	215	351	154	0	7.9	070	21	2	17	37	25	1545
Wiltshire	Isle of Grain	48	40	33	-	0	1	2	166	177	375	0	5.4	070	23	2	16	33	18	1600
7a Cumberland	Dover	68	38	62	-	0	2	14	315	291	100	0	10.1	030	27	1	19	40	1	1850
Lancashire	Thorney Island	75	65	42	-	0	0	0	236	313	171	0	7.9	240	20	20	15	38	25	1450
Cheshire	Hurn	86	53	46	-	0	2	4	288	314	114	0	9.2	230	23	25	15	38	25	1425
Anglesey	Calshot	50	41	33	-	0	6	28	433	202	57	0	12.2	230	26	25	11	37	25	1025
Glamorgan	S. Farnborough	313	69	35	-	0	1	1	156	337	226	0	6.6	250	22	20	15	39	20	1325
Devon	Abingdon	295	40	40	-	0	1	2	202	281	235	0	7.0	280	22	18	16	37	18	1525
Cornwall	Larkhill	491	51	36	-	0	2	2	150	343	220	0	6.9	280	22	18	17	43	18	1740
NORTHERN IRELAND	Boscombe Down	425	55	55	-	0	4	6	145	297	272	0	6.6	310	23	18	14	40	2	1640
Londonderry	Porton	406	44	44	-	0	3	4	153	239	314	0	6.3	070	22	2	18	38	18	1450
Antrim	Carlisle	137	42	30	-	0	1	2	356	177	185	0	8.9	020	23	29	10	36	29	0905
Jersey Airport	Sellafield	83	39	35	-	0	5	26	300	305	89	0	9.9	300	28	18	14	40	18	1335
	Spadeadam	959	51	40	29	1	7	42	333	274	64	6	11.4	050	35	29	10	54	29	0945
	Moor House	1960	50	45	2, 18	4	11	78	352	179	102	5	12.8	090	36	2	13	51	2	1210
	Southport	59	41	33	-	0	6	26	273	319	102	0	10.1	310	30	18	15	44	18	2015
	Fleetwood	112	50	31	18	2	2	19	263	301	135	0	9.6	290	39	16	14	51	18	1400
	Speke	84	41	33	-	0	8	40	284	342	54	0	10.4	280	28	18	13	49	18	1255
	Manchester W/Centre	268	147	55	-	0	2													

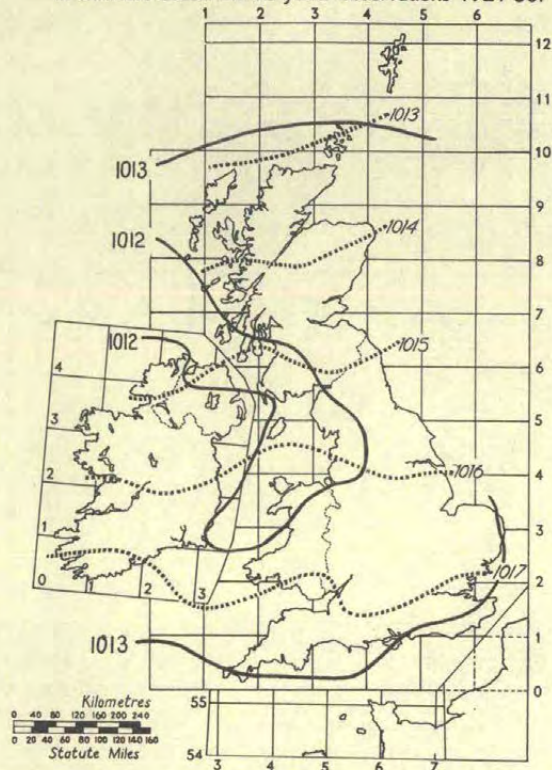


# MONTHLY WEATHER CHARTS

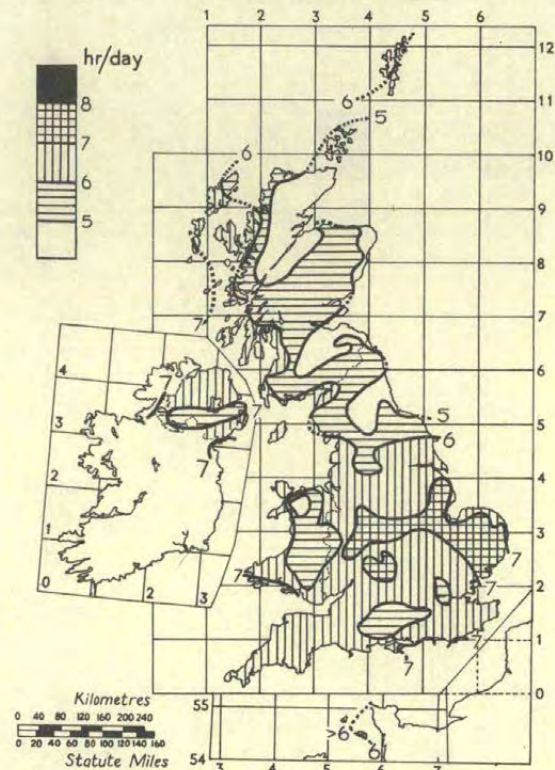
## JUNE 1963

### MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

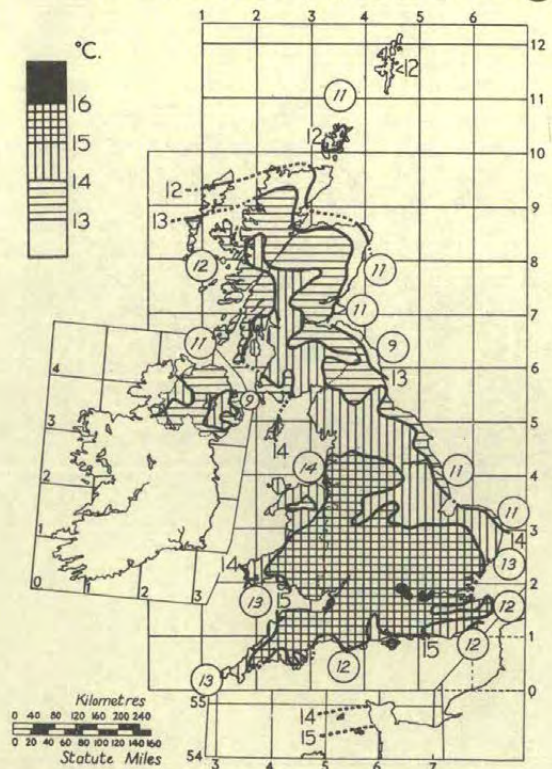


### BRIGHT SUNSHINE

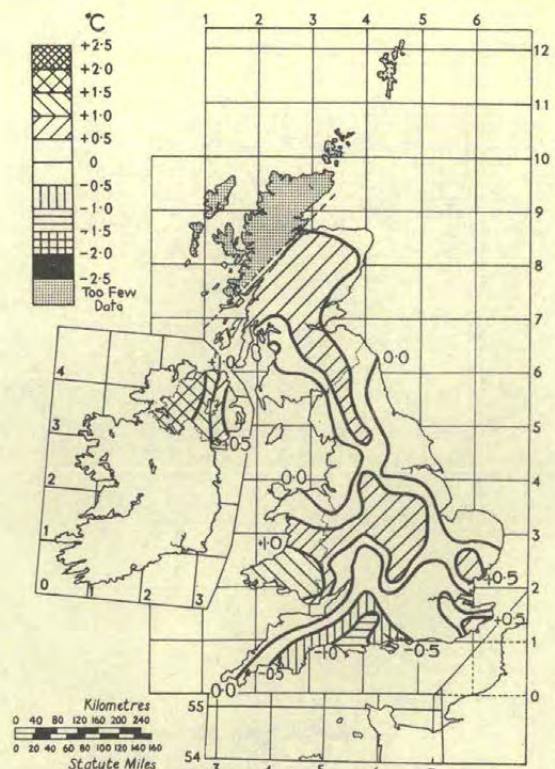


### MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus (10)



### ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

JUNE 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

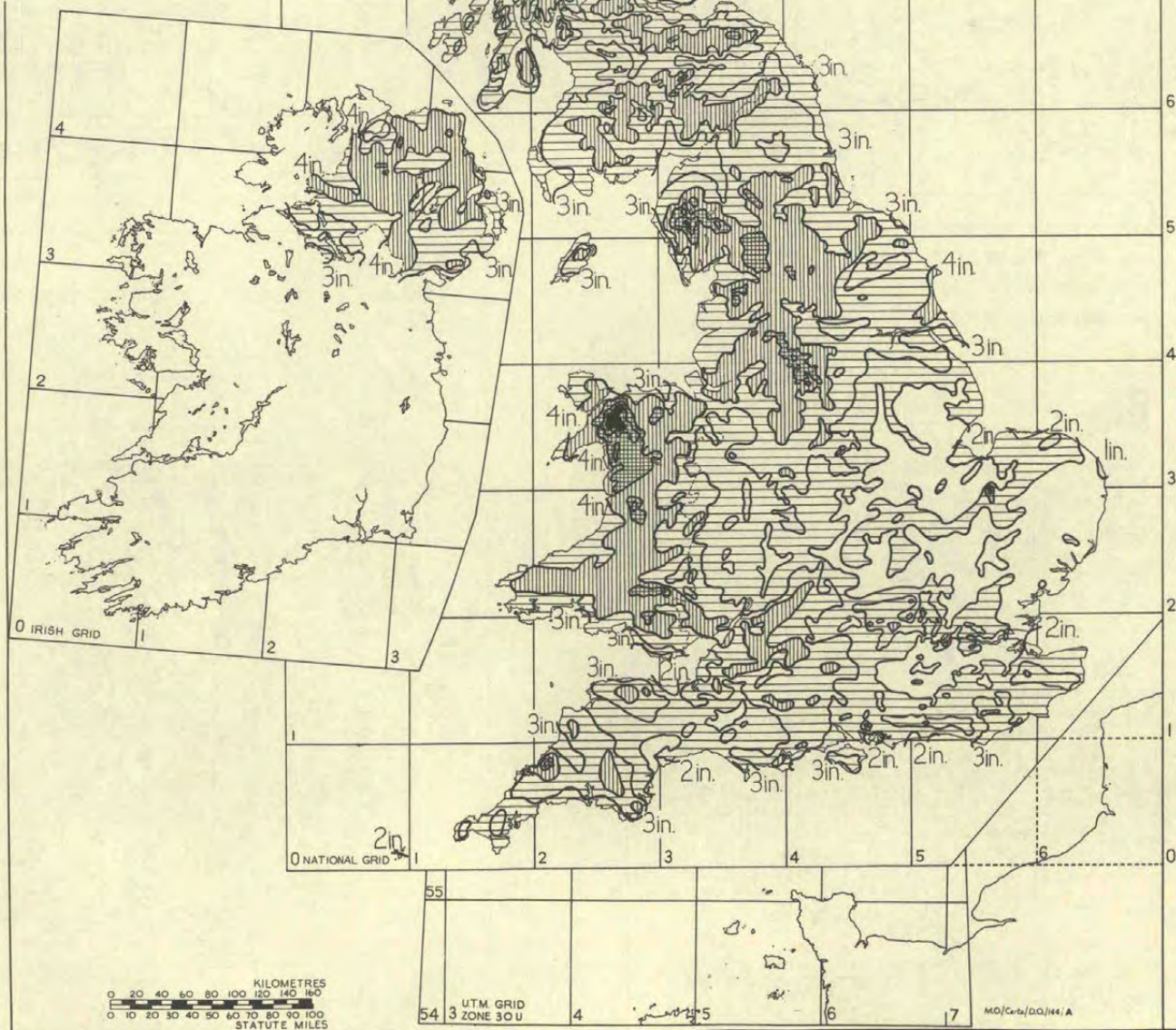
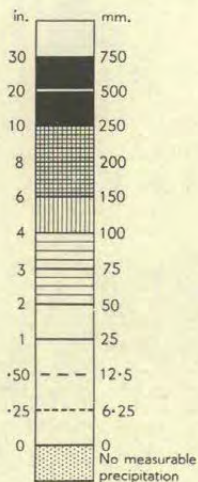




TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER June 1963

DISTRICT, COUNTY AND PLACE		Max. Min.	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE			
					Means of				Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average
					A Max.	B Min.	Mean Temperature of A and B	Difference from Average	Maximum	Date	Minimum	Date					Amount	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more										
					°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													
0 SCOTLAND, N.																														
Zetland	Hamnavoe	9 9	70	14.2	9.7	11.9	-	20.0	3	6.7	14	-	1.40	-	.35	17	10	6	0	0	0	0	1	1	0	-	6.81	-		
	Lerwick Obs'y.	21-9	269	13.1	8.6	10.9	+0.9	17.4	2	4.2	14	-	1.43	68	.36	18	10	5	0	0	0	0	2	0	0	-	5.53	105		
	Baltasound	9 9	78	13.9	8.6	11.3	-	13.9	1,2	3.9	14	9.9	1.06	41	.28	18	10	7	0	0	0	0	0	0	0	-	6.34	-		
Orkney	Sule Skerry	9 9	43	13.0	9.2	11.1	-	15.0	2, 15, 22	8.0	4.7, 11	-	1.60	-	.78	26	10	5	0	0	0	0	0	5	0	0	-	-	-	
	Stenness	9 9	75	14.3	8.8	11.9	-	20.6	3	5.6	23	11.2	1.45	-	.65	26	11	5	0	0	0	0	0	0	0	0	-	4.75	-	
	Costa	9 9	115	14.3	8.8	12.5	-	19.4	3	7.2	23, 25	-	1.81	-	.88	26	12	8	0	0	0	0	1	0	0	0	-	4.77	-	
Caithness	Kirkwall	21-9	84	14.0	8.7	11.3	-	18.3	3	5.6	25	-	2.40	118	.85	26	13	8	0	0	0	0	2	0	0	0	-	4.66	85	
	Dounreay	9 9	70	15.3	8.4	11.9	-	22.2	1	5.0	3	-	2.99	-	1.30	26	12	11	0	0	0	0	1	1	0	0	-	-	-	
	Wick	21-9	119	13.9	8.6	11.3	+0.5	16.8	16	4.4	3	-	2.55	125	.95	26	16	9	0	0	0	0	3	0	0	0	-	4.54	75	
Sutherland	Cape Wrath	21-9	367	12.9	9.0	10.9	+0.3	25.0	1	6.9	7	-	1.49	50	.59	26	13	8	0	0	0	0	9	0	0	0	-	-	-	
	Achany	9 9	280	17.1	7.7	12.4	-	22.2	1, 8	1.7	4	12.9	2.29	93	.76	26	19	14	0	0	0	0	1	0	0	8	0	-	-	-
	Strathay	9 9	120	15.3	8.4	12.3	+0.7	23.9	1	4.4	3, 4	-	3.68	136	1.70	26	15	12	0	0	0	0	1	1	0	-	4.98	95		
Ross & Cromarty	Stornoway	21-9	11	15.2	8.9	12.1	+0.5	20.9	6	6.0	15	-	1.94	76	.47	21	12	10	0	0	0	0	2	1	0	1	-	5.69	99	
	Balmacara	9 9	2	18.1	9.9	14.0	-	27.2	1	7.2	15	-	1.64	-	.66	16	11	9	-	0	-	-	-	0	-	-	-	-	-	
	Poolewe	9 9	20	17.6	10.3	13.9	-	26.7	1	6.7	5	-	2.31	-	.57	26	12	9	0	0	0	0	0	0	0	0	-	6.39	-	
Inverness	Inverpoll	9 9	45	17.9	9.6	13.7	-	25.6	1, 2	6.7	15, 20	13.4	1.74	-	.59	26	15	12	0	0	0	0	0	0	0	0	-	-	-	
	Achnashellach	9 9	220	18.4	8.8	13.6	+1.2	26.7	1	5.0	15, 26	-	3.05	61	.60	21	15	12	0	0	0	0	0	0	0	0	-	-	-	
	Kinlochewe	9 9	76	19.1	9.5	14.3	-	27.2	1	5.6	15	12.6	2.98	-	.88	26	12	12	0	0	0	0	0	0	0	0	-	5.41	-	
Inverness	Blackbridge	9 9	690	17.8	6.2	12.0	-	25.0	1	1.7	25	-	2.87	-	1.11	26	18	14	-	-	-	-	1	0	3	-	-	4.42	-	
	Fortrose	9 9	15	15.6	10.5	13.1	+0.6	22.8	1	8.9	2, 4, 5	-	3.00	168	1.11	26	16	14	-	-	-	-	0	0	-	-	-	4.40	77	
	Tarbatness	21-9	60	14.6	9.4	12.0	-	19.0	8	7.5	7	-	2.05	-	1.19	26	12	8	0	0	0	0	0	3	0	-	-	-	-	
Inverness	Benbecula	21-9	19	16.8	10.1	13.5	+1.3	24.4	1	7.5	26	-	2.18	75	.55	23	12	9	0	0	0	0	0	0	0	0	-	7.79	-	
	Isle of Rhum	9 9	15	18.1	9.3	13.7	-	25.6	1	6.1	3, 15	15.1	3.63	-	1.51	23	13	10	0	0	0	0	0	0	1	0	-	-	-	
	Prabost	9 9	220	16.9	9.3	13.1	-	25.6	1	6.7	16, 20	-	2.40	-	.42	20	16	14	0	0	0	0	0	0	0	0	-	6.55	-	
Inverness	Duntulm	9 9	294	15.8	9.4	12.6	+1.1	23.9	1	5.6	11	-	1.28	38	.20	17	16	8	0	0	0	0	1	0	0	0	-	6.68	117	
	Onich	9 9	48	17.5	10.0	13.7	+1.1	25.6	1	7.2	14, 15	-	3.72	75	.95	20	20	16	0	0	0	0	1	0	0	0	-	4.98	102	
	Fort William	9 9	27	18.1	9.8	13.9	-	26.1	1, 9	7.8	3, 15	14.7	3.48	-	.68	9	17	14	0	0	0	0	1	0	0	0	-	5.35	-	
Inverness	Fort Augustus	9 9	70	16.9	9.5	13.2	+0.5	25.6	1, 11	6.7	4	-	2.23	-	.82	26	19	10	0	0	0	0	1	0	0	0	-	3.26	-	
	Cannich	9 9	350	18.0	7.2	12.6	-	26.1	1	1.7	3, 4	-	2.01	75	.53	26	20	11	0	0	0	0	1	0	0	8	0	-	-	-
	Inverness	9 9	13	15.7	9.8	13.3	-	23.3	1, 2	6.7	28	-	3.12	-	1.30	26	16	10	0	0	0	0	0	1	0	0	0	-	4.77	-
Inverness	Achnagoichan	9 9	1000	17.2	6.8	12.0	-	25.0	11	1.7	20	10.9	4.29	-	.70	26	22	18	-	-	-	-	-	0	6	-	-	-	-	
	Glenmore Lodge	9 9	1120	16.5	5.3	10.9	-	24.4	11	-0.8	3	-	7.21	-	1.47	26	20	18	0	0	0	0	1	0	1	4	0	-	5.66	-
1 SCOTLAND, E.																														
Nairn	Nairn	9 9	20	16.8	7.8	12.3	-0.3	26.1	1	1.7	3	-	2.80	149	.78	26	19	14	0	0	0	0	1	0	1	0	-	4.91	86	
	Grantown-on-Spey	9 9	720	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Forres	9 9	155	15.9	8.6	12.7	-	25.0	1	4.4	4	14.2	10.9	3.02	150	1.11	26	17	14	0	0	1	0	0	0	0	0	-	4.76	80
Moray	Kinloss	21-9	15	16.7	8.8	12.7	-	24.5	1	3.7	4	12.3	2.61	-	.81	26	17	14	0	0	0	0	2	0	0	2	0	-	5.17	-
	Elgin	9 9	92	16.9	9.5	13.2	-	23.9	1	5.6	3, 4, 20	-	3.71	-	1.08	26	17	14	0	0	0	0	0	0	0	0	-	5.10	-	
	Lossiemouth	9 9	21	15.8	8.8	12.3	-0.2	23.3	1	3.9	3, 20	-	2.66	-	.86	26	17	11	0	0	0	0	0	0	2	0	-	-	-	
Banff	Gordon Castle	9 9	104	17.2	9.0	13.1	+0.2	23.9	1	5.0	3	-	4.09	181	1.39	26	15	14	0	0	0	0	0	0	0	0	-	5.16	91	
	Banff	9 9	80	15.7	9.4	12.5	-	21.7	1	6.1	20	-	3.44	-	1.41	26	15	13	0	0	1	0	1	7	0	-	5.10	-		
	Braemar	9 9	1113	16.9	7.0	11.9	+0.5	23.9	8, 11	1.1	3	-	4.95	263	1.38	18	23	21	-	0	-	-	-	0	0	-	-	5.75	-	
Aberdeen	Balmoral	9 9	927	16.9	6.3	11.6	+0.1	23.9	8	0.6	20	-	4.18	226	.90	18	22	18	0	0	0	0	5	-	0	2	0	-	-	-
	Dinnet	9 9	580	17.4	8.0	12.7	-	24.4	8	1.7	3	13.2	4.39	-	1.28	18	20	14	0	0	0	0	2	2	0	2	0	-	-	-
	Huntly	9 9	405	16.7	8.6	12.7	-	23.1	11	3.9	20	-	4.36	-	1.08	26	17	15	0	0	1	0	3	2	0	0	-	-	-	
Aberdeen	Fyvie Castle	9 9	218	16.6	8.7	12.7	-	20.6	8	2.8	20	-	3.24	-	.50	17, 26	15	13	0	0	0	0	0	0	0	0	-	4.90	-	
	Craibstone	9 9	300	15.8	8.4	12.0	+0.2	20.0	8	4.4	1	12.6	3.77	184	.98	22	17	9	0	0	1	0	2	3	0	0	-	5.20	85	
	Dyce	21-9	190	15.8	8.6	12.2	+0.2	20.4	8	2.6	20	-	3.45	160	.79	16	14	11	0	0	0	0	4	2	0	2	0	-	5.01	-
Aberdeen	Aberdeen	9 9	170	15.2	8.8	12.0	-0.1	19.4	21	3.9	20	-	2.97	143	.73	18	11	11	0	0	0	0	2	2	0	0	-	5.32	89	
	Hilton	9 9	230	15.6	9.1	12.3	-	19.																						



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER

June 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE						
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1° or below			Gale	Daily Mean	Percentage of Average		
			A Max.	B Min.		Maximum	Date	Minimum	Date		1 ft.	4 ft.		Amount	Date	-0.1 in. (0.2mm.) or more	-0.4 in. (1.0mm.) or more														
			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%				
1 SCOTLAND, E.—cont.																															
Midlothian	Balerno ...	9 9	700	16.5	8.3	12.4	-	23.3	11	6.1	4, 19	-	-	4.36	-	.81	27	14	14	0	-	0	0	0	15	0	-	0	4.21	67	
	Turnhouse ...	21-9	114	16.1	9.5	12.8	-0.1	24.1	11	4.5	4	-	-	2.81	151	.52	18	18	13	0	0	0	0	2	2	0	0	0	4.88	-	
	Edinburgh—E. Craigs	9 9	200	16.0	9.5	12.7	-	23.9	11	6.1	4	-	-	3.08	-	.49	18	17	15	0	0	0	0	2	2	0	0	0	4.57	-	
	Davidson's Mains	9 9	200	16.0	9.7	12.9	-0.3	22.8	11	6.7	4	13.8	-	3.19	-	.58	18	19	14	0	0	0	1	3	4	0	0	0	4.26	- S	
	Penicuik ...	9 9	620	16.6	8.6	12.6	-	22.8	11	5.0	20	14.2	-	4.13	-	.81	18	18	15	0	0	1	0	2	6	0	0	0	4.34	-	
	Bush House ...	9 9	605	15.8	8.6	12.2	-	21.7	11	5.0	4	13.4	10.6	3.95	-	.84	18	18	15	0	0	0	0	2	5	0	0	0	4.65	-	
	Edinburgh—																														
	Blackford Hill §	9 9	441	16.0	9.6	12.8	-0.1	23.3	11	7.2	19	-	-	3.57	190	.74	18	20	14	0	0	1	0	3	4	0	0	0	4.56	73	
	Liberton ...	9 9	200																												
	Royal Bot. Gdns.	9 9	74	15.8	9.6	12.7	-0.7	23.9	11	6.1	4	14.0	-	3.02	-	.73	18	19	14	0	0	1	0	1	3	0	0	0	4.62	74	
E. Lothian	Haddington ...	9 9	162	16.2	9.3	12.7	-	22.8	11	4.4	4	-	-	2.82	-	.57	17	16	12	0	0	0	0	4	2	0	0	0	4.18	-	
	North Berwick ...	9 9	152	15.4	9.3	12.3	-0.5	24.4	11	6.7	20	-	-	2.62	135	.51	17	17	14	0	0	0	0	1	8	0	-	0	3.38	54	
	Dunbar ...	9 9	75	14.6	9.4	12.0	-0.7	22.8	11	6.7	1	-	-	2.31	-	.59	17	17	12	0	0	0	0	1	0	0	0	0	4.75	71	
Berwick	Mertoun ...	9 9	225	17.5	8.7	13.1	-	22.8	11	5.0	4, 19, 20	-	-	2.30	-	.45	17	22	16	-	-	-	-	-	-	0	1	-	4.91	-	
	Lauder ...	9 9	600	16.9	7.9	12.4	-	22.8	8	3.3	20	-	-	4.03	-	1.03	12	21	14	0	0	0	0	3	1	0	1	0	5.52	-	
	Marchmont §	9 9	498	16.3	8.8	12.5	-0.2	21.7	11	5.6	20	-	-	3.29	163	.43	28	21	18	0	0	0	0	4	2	0	-	0	5.22	87 S	
	St. Abb's Head ...	9 9	245	13.9	8.7	11.3	-	21.7	11	5.7	20	-	-	2.15	-	.57	18	14	8	0	0	0	0	2	8	0	0	1	-	-	
Peebles	Stanhope Farm ...	9 9	741	17.3	8.7	13.0	-	25.0	8	3.9	15	-	-	3.03	-	.39	24	21	19	0	0	0	0	2	0	0	0	0	-	-	
	Blyth Bridge ...	9 9	830	16.3	8.3	12.3	-	22.2	9, 11	5.6	8	-	-	3.43	-	.51	18	19	14	0	0	0	0	2	1	0	0	1	4.87	-	
	West Linton ...	9 9	800	17.1	7.8	12.5	-	23.9	11	3.9	20	13.2	10.3	3.47	-	.78	20	19	14	1	0	0	0	1	1	0	0	0	-	-	
	Gleintress ...	9 9	580	17.5	8.7	13.1	-	24.4	11	3.9	4	-	-	2.61	-	.42	18	18	14	1	0	0	0	2	0	0	-	0	-	-	
Selkirk	Bowhill ...	9 9	600	17.5	8.3	12.9	-	23.3	9	3.3	24	-	-	2.17	-	.46	17	19	14	0	0	0	0	2	0	0	-	1	-	-	
Roxburgh	Wauchope ...	9 9	560	18.2	8.2	13.2	-	25.0	11	4.4	3, 4, 20	-	-	3.38	-	.43	27	18	18	-	0	-	-	-	3	0	-	-	-	-	
	Sourhope ...	9 9	900	16.6	8.4	12.5	-	23.3	11	4.4	10, 20	-	-	4.49	-	1.24	28	20	15	-	0	-	-	-	0	1	-	5.92	-		
6a SCOTLAND, W.																															
Argyll	Tiree ... §	21-9	29	16.0	9.9	12.3	+0.7	21.2	6	7.6	5	-	-	1.85	66	.49	23	14	10	0	0	0	0	1	0	0	0	0	7.67	114	
	Rhuvaal ...	21-9	65	16.1	10.3	13.2	-	22.9	11	7.1	15	-	-	2.26	-	.44	20	14	12	0	0	0	0	0	0	0	0	0	-	-	
	Colonsay ...	9 9	87	17.4	8.2	12.8	+0.3	23.9	9	2.8	4, 6	-	-	2.90	88	.65	20	21	16	0	0	0	0	0	0	0	0	-	-	-	
	Tobermory ...	9 9	270	17.2	9.3	13.3	-	22.8	1, 9	5.6	16	-	-	2.40	-	.68	20	12	9	-	-	-	-	-	-	-	-	-	-	-	
	Campbeltown ...	9 9	10	18.0	10.1	14.1	-	23.9	8	6.1	19, 20	-	-	2.63	-	.47	17	17	13	-	0	-	-	-	4	0	-	-	5.75	-	
	Achaglachgach ...	9 9	40	18.5	8.8	13.7	-	25.6	9, 10	3.3	15	-	-	3.16	-	.55	17	17	16	0	0	0	0	0	0	0	0	0	-	-	
	Oban ...	9 9	229	17.3	9.4	13.3	-	24.4	1, 9	6.7	15	-	-	3.02	85	.75	20	19	14	0	0	0	0	1	0	0	0	0	5.33	90	
	Lepinmore ...	9 9	30	18.1	9.9	14.0	-	23.9	3, 10, 11	5.6	15	-	-	3.61	-	.68	20	18	15	0	0	0	0	2	0	0	0	0	5.20	-	
	Glenbranter ...	9 9	120	18.2	9.3	13.7	+1.0	25.0	9, 11	5.0	15	-	-	4.99	96	.98	20	18	15	-	0	-	-	-	0	0	0	-	-	-	
	Benmore																														
	Forestry Sch.	9 9	46	18.3	9.2	13.7	+0.8	23.9	1, 4, 11	6.1	15	13.9	11.8	4.25	80	.95	20	19	14	0	0	0	0	0	4	0	0	0	-	-	
	Younger Bot. Gdns.	9 9	40	18.3	9.9	14.1	-	25.6	9, 11	6.7	15	-	-	4.17	-	.94	20	18	15	0	0	0	0	0	2	0	0	0	0	-	-
Bute	Rothsay §	9 9	150	18.3	10.3	14.3	+1.3	25.6	5	8.3	19, 25, 27	14.1	11.4	3.14	90	.57	17	15	11	0	0	0	0	0	0	0	0	0	6.29	101	
	Millport ...	9 9	16	17.1	10.6	13.9	-	23.9	9	6.7	1	-	-	3.00	109	.55	26	14	12	0	0	0	0	0	0	0	0	1	-	-	
Dunbarton	Helensburgh ...	9 9	293	18.1	9.6	13.9	+0.7	24.4	11	7.2	4	-	-	3.38	100	.81	20	16	14	0	0	0	0	0	0	0	0	0	-	-	
	Cumbarnauld ...	9 9	310	17.5	9.3	13.4	-	25.6	11	5.6	4	-	-	4.00	-	.64	12	20	16	0	0	0	0	2	4	0	0	0	-	-	
Stirling	Earls Hill ...	9 9	1100	15.1	7.4	11.3	-	23.0	11	5.0	17, 20, 23	-	-	4.97	-	.78	20	19	16	-	-	-	-	-	7	0	0	-	5.24	-	
	Stirling ...	9 9	151	18.0	10.3	14.1	+0.3	26.7	11	8.3	3, 19	16.2	10.3	4.07	182	.71	12	17	12	0	0	0	0	2	0	0	0	0	5.59	-	
	Falkirk ...	9 9	100	17.6	9.3	13.5	-0.2	25.6	11	1.1	10	-	-	3.25	-	.52	20	15	12	-	-	-	-	-	-	-	-	-	-	-	
Renfrew	Greenock ...	9 9	200	18.0	10.3	14.1	+0.4	25.0	9, 11	8.9	19, 23, 28	-	-	3.42	102	.59	12, 17	16	14	0	0	0	0	1	0	0	0	0	6.20	-	
	Paisley ...	9 9	106	18.5	10.8	14.7	+0.6	25.6	11	8.3	19	14.7	10.6	2.44	95	.47	20	19	15	0	0										



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER June 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE				
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Per-centage of Average	Most in a day	Precip'n				Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1° below 0° C	Gale	Daily Mean	Per-centage of Average	
			A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more											hr	%		
			Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.														
2 ENGLAND, N.E.—cont.			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.														
Northum-berland cont.	Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Corbridge	9 9	160	17.7	9.1	13.4	-	25.0	11	1.7	20	-	-	2.74	-	.76	28	13	10	0	0	0	0	0	0	0	0	-	
	Berwick-on-Tweed	9 9	76	14.4	9.3	11.9	-0.5	19.4	11	6.7	1,20	-	-	2.83	168	.59	18	19	13	0	0	0	0	0	0	0	4.64	73	
	Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cockle Park	9 9	326	16.3	8.9	12.6	+0.1	21.7	12	15	4.4	20	13.1	-	3.28	175	1.03	25	19	14	0	0	0	2	1	0	0	4.61	76
	Acklington	21-9	138	15.7	9.0	12.3	-	20.9	15	4.1	20	-	-	2.50	-	.97	25	18	10	0	0	0	0	3	2	0	0	5.44	-
	Tynemouth	21-9	95	14.6	9.7	12.1	-0.8	22.0	12	7.0	20	-	-	3.22	184	.63	12	17	13	0	0	0	0	3	3	0	1	4.88	-
	Chopwellwood	9 9	446	17.4	9.1	13.3	+0.2	23.3	3,11	2.8	20	-	-	3.53	173	.87	28	15	12	0	0	0	0	0	4	1	0	-	-
	Ushaw College	9 9	594	16.8	9.1	12.9	-0.2	22.2	8,11,12	3.9	20	-	-	3.51	186	.69	25,28	16	15	0	0	0	0	2	17	0	0	-	-
	Houghall	9 9	123	17.6	8.9	13.3	0.0	23.9	12	2.2	20	-	-	3.03	158	.63	28	16	13	0	0	0	0	2	1	0	0	5.09	85
Durham	Durham	9 9	336	17.5	9.6	13.5	+0.3	23.3	12	3.9	20	13.9	10.8	3.06	170	.62	28	15	14	0	0	0	0	-	0	0	0	4.90	82
	Gateshead	9 9	509	16.8	9.6	13.2	-	23.3	11	6.7	1,20	-	-	3.29	-	.65	25	16	13	-	0	-	-	5	0	0	-	4.86	-
	Middleton St. George	21-9	115	17.7	9.7	13.7	-	24.0	12	5.4	20	-	-	3.15	-	.83	28	17	13	0	0	0	0	4	2	0	0	5.46	-
	West Hartlepool	9 9	30	16.3	10.3	13.3	-	22.2	12	6.7	20	-	-	3.51	-	1.02	12	15	13	0	0	0	0	2	4	0	0	4.67	-
	Dishforth	21-9	105	18.9	10.7	14.8	-	26.0	12	5.5	4	-	-	4.03	228	.98	12	16	14	0	0	1	0	4	0	0	0	5.95	-
	Thirsk	9 9	111	19.1	9.7	14.4	-	25.6	12	5.0	19	-	-	4.98	-	1.88	12	16	15	0	0	1	0	4	0	0	1	-	-
	York	9 9	57	18.9	10.3	14.6	-0.1	25.0	12	6.1	4	15.1	11.9	4.59	250	.94	21	18	15	0	0	1	0	2	0	0	-	6.21	98
	Ampleforth	9 9	313	17.9	9.7	13.8	+0.2	24.4	12	5.0	4	-	-	2.88	135	.76	28	16	16	-	-	-	-	0	0	0	-	-	-
	Redcar	9 9	25	16.2	10.3	13.3	-	22.8	12	6.7	20	-	-	3.75	214	1.13	12	18	14	0	0	0	0	1	1	0	-	4.78	-
	Whitby	9 9	135	16.3	9.7	13.0	-	22.8	11	5.0	1	-	-	2.86	157	.97	28	16	9	0	0	0	0	1	3	0	-	5.10	84
Yorks., N. Riding	Scarborough	9 9	118	16.3	10.2	13.3	-0.7	20.0	12	7.2	4	14.3	12.1	3.37	198	1.27	28	16	12	0	0	0	0	1	1	0	0	5.73	89
	Silpho Moor	9 9	665	16.2	8.3	12.3	-	23.3	12	3.9	5	12.3	-	4.54	-	1.68	28	22	14	0	0	0	0	1	6	0	2	6.16	-
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Whitby C/Guard	21-9	200	15.3	9.7	12.5	-	21.5	11	5.8	5	-	-	2.46	-	.65	28	15	10	0	0	0	0	3	5	0	0	-	-
	High Mowthorpe	9 9	574	16.6	8.8	12.7	-	23.9	12	5.0	3	13.1	-	3.55	150	.95	28	19	16	0	0	0	0	1	0	0	1	6.83	-
	Hull	9 9	8	18.3	10.3	14.3	-0.4	26.7	12	6.7	4,5	14.5	10.3	4.05	230	2.00	28	17	16	0	0	0	0	2	0	0	0	6.52	104
	Leconfield	21-9	24	17.6	9.9	13.9	-	25.3	12	5.6	4	-	-	3.13	-	1.44	28	18	16	0	0	0	0	5	0	0	0	6.69	-
	Filey	9 9	122	15.4	9.6	12.5	-	21.7	12	6.1	5	-	-	3.65	-	1.33	28	16	12	0	0	0	0	2	0	0	0	5.54	-
	Bridlington	9 9	157	16.0	9.4	12.7	-	22.2	12	6.7	5	-	-	4.16	-	1.32	28	20	17	0	0	0	0	3	0	0	0	6.29	-
	Spurn Head	21-9	29	15.4	10.4	12.9	+1.0	21.5	12	8.2	5	-	-	2.81	-	1.56	28	17	11	0	0	0	0	6	0	0	-	6.44	98
Lincoln	Gainsborough	9 9	110	19.3	9.6	14.5	-	25.6	12	5.6	4,5	-	-	2.31	-	1.00	28	15	15	0	0	0	0	0	0	0	-	-	-
	Navenby	9 9	60	19.9	9.4	14.7	-	27.2	12	3.3	5	-	-	1.48	-	.27	25	17	12	0	0	0	0	5	0	0	0	-	-
	Waddington	21-9	224	19.0	9.8	14.4	+0.1	26.6	12	5.9	5	-	-	1.12	-	.19	28	16	11	0	0	0	0	5	0	0	0	6.88	-
	Lincoln	9 9	22	19.8	9.3	14.5	-	26.7	12	2.8	5	14.6	11.8	1.43	-	.34	25	16	10	0	0	0	0	0	0	0	0	6.90	-
	Cranwell	9 9	205	19.1	9.6	14.3	0.0	26.3	12	5.7	5	15.9	12.7	1.83	115	.59	13	17	12	0	0	0	0	2	0	0	0	6.94	105
	Cleethorpes	9 9	23	16.9	10.3	13.6	-0.6	23.9	12	3.3	25	-	-	3.06	190	1.87	28	14	10	0	0	0	0	1	0	0	0	6.86	101
	Manby	21-9	55	18.0	9.7	13.9	-	26.5	12	6.4	5	-	-	2.17	-	.91	28	14	10	0	0	0	0	3	0	0	0	7.23	-
	Skegness	9 9	15	17.2	10.7	13.9	-0.1	23.9	12	7.8	19,27	-	-	2.56	168	.76	28	13	8	0	0	0	0	1	0	0	0	6.46	95
	3 ENGLAND, E.																												
	Norfolk	Terrington	9 9	13	18.9	10.1	14.5	-	26.1	12	6.7	15	14.9	-	.96	64	.25	28	13	7	0	0	0	0	5	0	0	0	6.99
St. Clement		21-9	76	19.6	10.1	14.9	-	26.3	12	6.4	27	-	-	1.45	-	.40	28	13	7	0	0	0	0	7	0	0	0	-	-
Marham		9 9	80	20.5	9.2	14.9	-	26.7	9	3.9	9	14.2	11.4	1.83	-	.46	28	14	10	-	0	-	-	0	0	1	-	-	-
Santon Downham		9 9	80	20.5	9.2	14.9	-	26.7	9	3.9	9	14.2	11.4	1.83	-	.46	28	14	10	-	0	-	-	0	0	1	-	-	-
West Raynham		21-9	250	18.6	9.7	14.1	-	25.5	12	7.0	4,19	-	-	1.51	-	.49	28	13	8	0	0	0	0	6	0	0	0	7.25	-
Cromer		9 9	178	16.8	10.1	13.5	-0.8	21.7	12	7.8	5,12,19	-	-	2.75	172	1.13	28	11	10	-	0	-	-	0	0	0	-	6.37	94
Sprowston		9 9	93	18.8	9.6	14.2	-0.3	25.0	12	5.6	10	14.3	-	1.55	89	.62	28</												



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER June 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average		
				A Max.	B Min.		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount		Date	-0.1 in. (0.2mm.) or more	-0.4 in. (1.0mm.) or more														
				Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.												hr	%		
4 MIDLAND COUNTIES—cont.																															
Yorks., W. Riding—cont.	Huddersfield	9	9	325	18.8	10.0	14.4	+0.3	25.6	11	4.4	4	14.8	11.8	3.54	87	28	19	16	0	0	0	0	0	0	0	0	0	5.86	103	
	Oakes	21-9	761	18.4	9.3	13.9	+0.3	28.0	12	5.6	4	13.7	10.3	4.02	179	1.11	28	19	16	0	0	0	0	0	0	0	0	0	6.38	107	
	Bradford	9	9	439	17.9	10.2	14.1	+0.3	24.4	11	6.7	4	13.9	10.7	3.92	195	.98	28	19	17	0	0	0	0	0	0	0	0	6.03	103	
	Ilkley	9	9	315	18.7	10.4	14.5	+0.6	25.6	12	6.1	4	-	-	3.86	171	.67	28	17	15	0	0	0	0	0	0	0	0	6.00	99	
	Sheffield	9	9	429	19.3	10.3	14.8	+0.3	25.6	12	6.7	3	14.8	11.2	3.90	209	1.00	28	17	14	0	0	0	0	0	0	0	0	6.34	-	
	Wakefield	9	9	121	19.6	10.3	14.9	+0.2	26.7	12	6.1	4	12.9	10.9	3.47	213	1.14	28	19	14	0	0	0	0	0	0	0	0	6.33	104	
	Pontefract	9	9	255	18.8	10.1	14.5	+0.5	25.0	12	6.7	3,4	-	-	2.90	179	1.21	26	15	11	0	0	0	0	0	0	0	0	6.46	-	
	Bramham	9	9	177	18.7	9.4	14.1	-	25.0	12	4.4	4	-	-	3.97	178	.82	30	18	16	0	0	0	0	0	0	0	0	6.34	-	
	Cawood	9	9	20	18.1	9.7	14.4	-	25.6	12	5.0	4	15.3	12.3	3.11	170	.78	28	17	11	0	0	0	0	0	0	0	0	6.33	104	
	Askham Bryan	9	9	110	19.0	9.8	14.4	-	24.4	12	5.0	4	-	-	3.45	180	.80	28	16	16	0	0	0	0	0	0	0	0	6.33	104	
Derby	Buxton	9	9	1007	17.5	8.8	13.1	+0.5	24.5	11	5.0	5	14.5	11.8	4.78	151	.72	28	17	16	0	0	0	0	0	0	0	0	0	6.33	104
	Chapel en le Frith	9	9	732	18.0	9.5	13.7	-	24.4	11	5.0	2	-	-	4.07	-	.54	12	16	15	0	0	0	0	0	0	0	0	6.33	104	
	Mackworth	9	9	293	19.2	10.1	14.7	-	21.1	8, 11, 12	6.7	27	-	-	3.60	-	.67	12	17	16	0	0	0	0	0	0	0	0	6.33	104	
	Belper	9	9	203	20.0	9.8	14.9	+0.5	26.1	11	6.1	19	-	-	2.97	164	.49	12	17	14	0	0	0	0	0	0	0	0	6.33	104	
	Derby	9	9	159	20.0	10.7	15.3	-	26.1	11, 12	6.6	5	-	-	3.91	-	.69	12	16	15	0	0	0	0	0	0	0	0	6.33	104	
	Morley	9	9	350	19.1	9.8	14.5	-	25.6	11	6.1	5	-	-	3.79	157	.64	13	16	16	0	0	0	0	0	0	0	0	6.33	104	
	Chesterfield	9	9	298	19.1	9.8	14.5	-	25.6	11	6.1	5	-	-	3.79	157	.64	13	16	16	0	0	0	0	0	0	0	0	6.33	104	
	Sutton Bonington	9	9	157	18.1	9.7	14.4	0.0	25.0	12	5.0	5	13.8	11.8	2.39	165	.42	13	15	13	0	0	0	0	0	0	0	0	6.57	108	
	Watnall	21-9	385	19.6	9.8	14.7	-	26.1	8, 12	5.5	5	-	-	-	2.79	162	.43	12	15	15	0	0	0	0	0	0	0	0	6.36	-	
	Mansfield	9	9	362	18.9	9.8	14.3	0.0	25.0	11, 12	5.0	5	14.8	-	2.96	179	.57	30	16	12	0	0	0	0	0	0	0	0	6.36	-	
Leicester	Nottingham	9	9	192	19.2	9.8	14.5	-	25.6	12	6.1	5	-	-	2.52	168	.57	28	15	14	0	0	0	0	0	0	0	0	6.23	-	
	Warsop	9	9	150	19.3	8.9	14.1	-	25.6	12	3.3	5	-	-	2.52	168	.57	28	15	14	0	0	0	0	0	0	0	0	6.23	-	
	Finningley	21-9	34	19.7	10.3	15.0	-	26.9	12	6.1	4	-	-	-	3.13	-	.91	28	18	14	0	0	0	0	0	0	0	0	6.40	-	
	Newtown Linford	9	9	392	19.2	9.3	14.3	-	25.0	8	6.1	27	-	-	2.35	-	.54	30	18	16	0	0	0	0	0	0	0	0	7.07	-	
	Bugbrooke Mills	9	9	228	19.9	9.3	14.6	-	24.4	7, 9, 13	3.3	15	-	-	2.15	-	.59	24	16	11	0	0	0	0	0	0	0	0	7.19	-	
	Caldecott	9	9	175	20.2	9.1	14.7	-	26.7	12	5.0	10, 15	-	-	1.62	-	.31	25	15	11	0	0	0	0	0	0	0	0	6.69	-	
	Raunds	9	9	193	20.1	9.7	14.9	-	26.7	12	5.0	15	15.9	11.1	2.07	138	.50	28	16	11	0	0	0	0	0	0	0	0	6.24	-	
	Wittering	21-9	212	19.6	10.2	14.9	-	26.5	12	7.6	15	-	-	-	1.74	-	.33	27	15	12	0	0	0	0	0	0	0	0	7.15	-	
	Birmingham K.E.S.*	9	9	450	19.2	10.7	14.9	+0.3	25.0	8	7.2	5	11.9	10.2	3.29	173	.50	29	16	12	0	0	0	0	0	0	0	0	6.98	116	
	Edgbaston	21-9	536	19.2	10.7	14.9	+0.3	25.0	8	7.2	5	11.9	10.2	3.29	173	.50	29	16	12	0	0	0	0	0	0	0	0	0	6.98	116	
Oxford	Luddington	9	9	138	20.1	10.6	15.3	-	26.1	9	7.2	4, 5	-	-	2.49	158	.72	12	16	12	0	0	0	0	0	0	0	0	0	6.86	-
	Stratford on Avon	9	9	160	20.3	10.3	15.3	-	25.6	8, 9, 12	7.2	3, 5, 27	17.0	-	2.25	109	.65	27	15	10	0	0	0	0	0	0	0	0	0	7.11	-
	Elmdon	21-9	319	19.5	9.9	14.7	-	25.3	8	4.4	5	-	-	-	2.80	169	.76	27	14	10	0	0	0	0	0	0	0	0	7.43	-	
	Shipston on Stour	9	9	365	18.6	10.2	14.9	-	24.4	8, 9, 12	7.2	3, 4, 5	14.8	-	3.16	-	.80	12	15	12	0	0	0	0	0	0	0	0	7.16	-	
	Wellesbourne	9	9	153	19.7	10.1	14.9	-	25.6	8, 9	6.7	4	15.4	13.2	2.02	122	.40	12	14	10	0	0	0	0	0	0	0	0	7.00	-	
	Moreton Morrell	9	9	280	19.8	9.8	14.8	-	25.0	9, 11	5.0	3	-	-	2.26	-	.40	27	17	14	0	0	0	0	0	0	0	0	7.02	-	
	Rugby	9	9	385	19.6	10.1	14.9	+0.5	24.4	8, 9	6.7	4	13.0	1.65	-	.77	24	11	10	0	0	0	0	0	0	0	0	0	6.65	101	
	Oxford	9	9	208	19.9	11.0	15.5	+0.2	25.6	9	7.8	15	16.7	13.8	2.59	153	.52	13	17	10	0	0	0	0	0	0	0	0	6.65	101	
	Grendon Underwood	9	9	220	19.9	9.7	14.8	-	25.6	9	3.9	15	15.6	12.4	1.76	-	.52	29	14	10	0	0	0	0	0	0	0	0	6.63	-	
	Medmenham	9	9	98	20.0	9.2	14.6	-	26.1	9	3.9	15	-	-	3.38	-	1.07	30	15	12	-	-	-	-	-	-	-	6.62	-		
Stafford	Aylesbury	9	9	316	19.4	9.8	14.6	-	26.1	12	5.0	15	-	-	4.51	280	2.12	12	14	12	0	0	0	0	0	0	0	0	6.62	-	
	Keele	9	9	587	18.2	9.9	14.1	-	23.9	8, 9, 11	6.1	5	14.3	10.7	3.36	161	.63	12	16	16	0	0	0	0	0	0	0	0	6.60	-	
	Oaken	9	9	409	19.9	9.7	14.8	-	25.6	8, 11, 12	6.1	4	14.6	-	2.72	-	.82	12	15	10	-	-	-	-	-	-	-	6.60	-		
	Stone	9	9	350	19.1	9.8	14.5	-	26.1	7	2.8	5	-	-	3.50	-	.74	12	17	13	0	0	0	0	0	0	0	0	7.05	-	
	Penkridge	9	9	330	19.1	9.8	14.5	-	25.6	11	6.1	4, 27	-	-	3.63	-	.87	12	16	16	0	0	0	0	0	0	0	0	6.39	-	
	Onecote	9	9	1350	15.9	8.																									



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER June 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE						
			Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day		Precip'n				Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost			Grass min. below 0° C	Gale	Daily Mean	Percentage of Average	
			A Max.	B Min.		Maximum	Date	Minimum			Date	Amount	Date	0.1in. (0.2mm.) or more	0.1in. (1.0mm.) or more	Thunder heard	Fog at 9h.	Air Frost							Grass min. below 0° C	Gale					Daily Mean
			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.
5 ENGLAND, S.E.—cont.																															
Surrey																															
—cont.																															
Kent																															
Kew Observatory	21-9	18	20.0	11.9	15.9	0.0	25.6	7	8.4	15	15.8	12.9	1.93	112	.43	28	14	12	0	0	0	8	0	0	0	0	6.72	95			
Gatwick	21-9	192	19.5	9.9	14.7	-	25.7	9	4.7	27	-	-	2.23	-	.46	29	15	11	0	0	0	2	0	0	0	0	6.33	-			
Waddon	9 9	220	19.8	10.9	15.3	-0.2	26.1	7	6.7	15	-	-	1.76	110	.40	27	13	12	-	-	-	-	-	-	-	-	-	-	-		
Addington	9 9	474	19.2	10.3	14.7	-0.3	25.0	8.9	6.1	15	-	-	1.83	106	.40	27,29	14	11	-	-	-	-	0	0	-	-	-	-	-		
Bromley	9 9	213	19.9	10.9	15.4	-0.3	25.0	6.9, 12	5.0	3	-	-	2.33	147	.53	7	14	13	-	-	-	-	1	0	-	-	-	-	-		
Swanley	9 9	177	19.8	11.2	15.5	-	25.6	12	5.6	15	15.4	-	1.78	-	.28	27	14	12	0	0	0	2	0	0	0	0	5.92	-			
Dartford	9 9	17	19.9	10.9	15.4	-	25.6	12	7.8	15	-	-	2.43	166	.85	7	15	11	0	0	0	2	0	0	0	0	-	-	-		
Tunbridge Wells	9 9	351	18.9	9.7	14.3	-0.5	25.6	7	5.6	23	16.7	14.3	2.38	138	.46	27	12	11	0	0	0	3	0	0	0	0	6.47	86			
Goudhurst	9 9	280	19.0	9.7	14.3	-	25.6	7.9	7.2	6, 8, 12	-	-	3.42	193	.77	12	15	11	0	0	0	1	0	0	0	0	-	-	-		
East Malling	9 9	122	19.2	10.2	14.7	-0.1	24.4	8, 12	6.7	27	-	-	12.6	2.19	137	.46	12	13	12	0	0	0	2	0	0	0	0	6.28	86		
Gillingham	9 9	14	19.9	11.2	15.5	-	26.1	12	8.9	12	-	-	1.30	-	.39	12	14	11	0	0	0	0	1	0	-	0	6.23	-			
Sittingbourne	9 9	224	18.3	10.2	14.3	-	23.3	6	7.8	12	15.1	12.2	2.83	124	.80	12	12	11	0	0	0	3	0	0	0	0	6.70	-			
Isle of Grain	9 9	9	19.0	12.2	15.6	-	24.4	12	10.6	5, 15, 23	-	-	1.49	-	.60	12	15	9	-	-	-	-	0	0	-	-	6.36	-			
Faversham	9 9	157	18.4	10.3	14.3	-	23.9	6	7.8	6	15.3	12.6	3.05	-	.76	27	14	11	0	0	0	4	0	0	0	0	6.54	-			
Dungeness	21-9	10	16.2	11.2	13.7	-0.6	22.1	8	8.9	15	-	-	2.30	176	.57	17	19	9	0	0	0	2	2	0	-	0	-	-	-		
Wye	9 9	185	18.5	10.8	14.7	-0.1	23.9	7.9	7.8	23	-	-	3.30	205	.55	17	14	12	0	0	0	2	0	0	0	0	6.16	82			
Whitstable	9 9	9	18.0	11.3	14.7	-	23.3	12	9.4	6, 19, 23	-	-	2.75	212	.95	28	13	12	0	0	0	4	0	0	-	0	6.74	-			
Folkestone	9 9	128	17.4	11.3	14.3	-	22.8	9	8.9	1, 19, 23	-	-	12.5	2.85	204	.54	28	14	11	0	0	0	2	1	0	0	6.77	-			
Elmstone	9 9	28	19.4	10.5	14.9	-	24.4	1, 12	7.8	4, 6, 23	-	-	2.26	-	.56	28	14	12	-	-	-	-	0	0	-	-	-	-	-		
Herne Bay	9 9	21	18.4	11.8	15.1	-	24.4	12	9.4	19, 23, 27	-	-	2.62	196	.77	28	15	9	0	0	0	2	1	0	-	0	5.85	-			
Dover	9 9	19	17.3	11.8	14.5	-0.4	23.3	9	9.4	19	15.6	13.7	2.89	179	.67	17	15	11	0	0	0	3	0	0	0	0	6.50	-			
Dover R.M.S.*	9 9	402	15.9	10.3	13.1	-	21.7	9	8.3	23, 27	-	-	2.97	172	.68	17	16	15	-	-	-	-	3	0	-	-	-	-	-		
Deal	21-9	18	16.7	-	-	-	19.7	6	-	-	-	-	2.39	-	.51	13	14	10	0	0	0	3	2	0	0	-	-	-	-		
Manston	21-9	145	17.9	10.6	14.3	-	23.1	12	8.1	19, 21, 24	-	-	2.20	-	.57	28	15	10	0	0	0	4	1	0	0	-	-	-	-		
Ramsgate	9 9	80	16.8	11.7	14.3	-	19.4	5	9.4	19, 23	-	-	2.01	141	.36	13	13	11	0	0	0	2	1	0	-	1	6.38	86			
Margate	9 9	51	16.7	11.7	14.2	+1.0	22.8	12	9.4	19	15.4	12.7	2.39	193	.82	28	13	10	0	0	0	1	1	0	0	0	6.09	76			
Thorney Island	21-9	10	19.0	11.3	15.1	-	26.8	10	7.6	27	-	-	2.23	157	.56	17	13	8	0	0	0	3	0	0	0	0	6.40	-			
Haslemere	9 9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bognor Regis	9 9	24	17.5	11.8	14.7	-0.2	24.4	1, 10	8.3	15	-	-	13.6	2.38	157	.56	17	13	10	0	0	0	1	0	0	0	6.83	88			
Fernhurst	9 9	188	19.4	10.4	14.9	-	26.7	9	5.6	27	-	-	2.79	-	.74	5	15	11	0	0	0	2	-	0	0	0	6.23	-			
Littlehampton	9 9	15	18.7	11.2	14.9	0.0	26.7	10	7.2	15, 23, 27	-	-	14.1	1.76	111	.53	17	14	8	0	0	0	0	0	0	-	7.13	89			
Rustington	9 9	10	18.6	11.0	14.8	-	25.6	1, 2	5.6	27	-	-	12.4	1.90	-	.55	17	15	10	-	-	-	-	0	0	-	6.41	-			
Worthing	9 9	25	18.3	12.2	15.3	+0.1	25.6	1, 10	8.9	15, 23	15.8	13.1	1.91	125	.53	17	14	10	0	0	0	1	0	0	0	0	6.82	84			
Brighton	9 9	32	17.6	12.2	14.9	-	25.6	1	8.9	15	-	-	13.9	2.03	132	.67	17	13	11	0	0	0	1	1	0	0	6.54	83			
East Grinstead	9 9	400	19.3	9.8	14.5	-	25.6	7.9	6.1	27	-	-	12.7	2.52	-	.50	27	11	11	0	0	0	1	0	0	0	-	-	-		
Seaford	9 9	45	17.6	11.2	14.4	-	24.4	8	7.8	12, 15	-	-	3.18	194	.95	17	12	12	-	-	-	-	1	0	-	-	6.58	82			
Eastbourne	9 9	23	17.4	11.9	14.7	-0.2	24.4	8	8.9	15	16.3	13.6	3.43	210	.99	17	15	13	0	0	0	1	1	0	2	7.38	89				
Eastbourne C/Guard	21-9	17	18.0	11.3	14.7	-	24.7	8, 10	7.5	12	-	-	3.55	-	.96	17	16	13	0	0	0	1	0	0	0	-	-	-	-		
Bexhill	9 9	12	17.3	12.0	14.7	-0.2	23.9	8	8.9	15	16.3	-	3.11	205	.77	17	15	12	0	0	0	1	1	0	0	0	6.58	83			
Bodiam	9 9	73	19.0	10.3	14.7	-	25.6	9	6.7	23, 27	15.9	12.4	3.24	-	.82	17	13	10	-	-	-	-	0	0	-	-	6.62	-			
Hastings	9 9	149	17.4	11.6	14.5	-0.5	23.9	10	8.9	15, 23, 24	16.6	13.8	2.85	185	.87	17	15	13	0	0	0	1	2	0	0	0	6.61	82			
Berkshire																															



\* Plant Breeding Station.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER June 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER												BRIGHT SUNSHINE		
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Rainfall			Weather		Bright Sunshine														
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day	Precip'n	Snow or Sleet	Hail	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C	Gale	Daily Mean	Per-centage of Average					
				Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	
8b ENGLAND, S.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%			
Somerset	Long Ashton ...	9 9	162	19.6	10.9	15.3	+0.4	26.7	9	8.3	3.5	16.2	-	3.00	141	.63	30	19	17	0	0	0	0	7	0	0	0	6.79	100	
—cont.	Wincanton ...	9 9	375	19.1	10.4	14.7	-	25.6	8	7.8	19.27	-	-	2.95	-	.64	29	16	11	0	0	0	0	4	0	0	0	-	-	
	Bath City Boys' School	9 9	388	18.8	10.8	14.8	-	25.6	9	7.8	3.5	-	-	4.42	-	.77	13	20	16	0	0	0	0	1	0	0	0	(6.25)	-	
Dorset	Bath ...	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Lyme Regis ...	9 9	200	17.9	13.9	14.4	-	25.6	10	7.2	27	-	-	2.19	-	.46	19	15	12	0	0	0	0	1	0	0	0	5.54	-	
	Portland Bill ...	21-9	35	-	11.8	-	-	-	-	7.8	12	-	-	2.29	172	.63	19	15	9	0	0	0	0	0	2	0	0	-	-	
	Weymouth ...	9 9	16	18.6	11.8	15.2	0.0	24.4	10	6.1	16	-	-	2.77	191	.64	19	17	11	-	0	-	-	-	1	0	-	6.52	83	
	Wimfrith ...	9 9	85	18.6	10.5	14.5	-	25.6	1.10	6.1	27	-	-	3.03	-	.61	13	17	12	-	0	-	-	-	0	0	-	-	-	
Devon	Shaftesbury ...	9 9	680	17.8	10.8	14.3	+0.3	25.6	8	6.7	23	-	-	3.12	167	.56	12	16	13	-	0	-	-	-	0	0	-	-	-	
	Swanage ...	9 9	37	17.7	11.6	14.7	-	25.0	8	9.4	23.25.27	-	13.7	2.47	-	.53	17	17	10	0	0	0	0	2	0	0	0	6.50	81	
	Poole ...	9 9	18	19.7	10.6	15.1	-	27.8	1	7.2	27	-	-	3.99	-	.97	28	16	13	0	0	0	0	0	0	0	-	6.26	82	
	Clawton ...	9 9	412	18.3	9.9	14.1	-	26.1	10	5.0	7.15.16	-	-	3.84	-	.73	19	19	14	0	0	0	0	1	0	0	-	-		
	Hartland Point ...	21-9	298	15.8	11.7	13.7	-	24.8	1	8.2	8	-	-	3.18	-	.84	17	13	11	0	0	0	0	0	4	0	0	6.65	89	
	Mount Batten ...	21-9	87	17.4	11.5	14.5	0.0	24.8	10	7.5	7	-	-	2.58	128	.88	19	13	9	0	0	0	0	1	0	0	0	6.81	92	
	Plymouth, The Hoe ...	9 9	119	17.9	11.7	14.8	-0.2	25.0	10	7.2	7	15.4	13.1	2.58	129	.88	19	14	9	0	0	0	0	0	1	0	0	6.65	90	
	Tavistock ...	9 9	457	18.8	10.5	14.7	+0.4	25.0	9.10	6.1	7	-	12.3	3.87	-	.82	17	18	13	0	0	0	0	0	0	6	0	-		
	Chivenor ...	21-9	20	19.1	11.9	15.5	-	26.6	1	7.3	15	-	-	2.15	-	.49	30	13	7	0	0	0	0	2	0	0	0	6.76	-	
	Ilfracombe ...	9 9	25	17.1	12.3	14.7	0.0	23.9	1	10.0	5	16.5	14.2	3.36	157	.89	30	15	14	0	0	0	0	0	0	0	0	7.08	93	
Cornwall	Totnes ...	9 9	120	18.7	10.5	14.6	-	24.4	10	6.7	7.12	15.8	12.2	2.65	117	.58	19	15	11	0	0	0	0	0	0	0	0	6.24	-	
	Slapton ...	9 9	104	17.4	10.9	14.1	-	21.1	7.8.13	3.9	3	-	-	4.19	-	1.17	13	15	11	0	0	1	0	1	1	0	0	-	-	
	Newton Abbot ...	9 9	272	18.7	13.9	14.8	+0.1	23.9	10	6.1	23	-	-	2.24	118	.39	30	16	11	0	0	0	0	0	0	0	0	6.32	92	
	Paignton ...	9 9	8	18.7	11.7	15.4	-	22.8	7	8.9	19.23	-	-	1.78	90	.29	19.29	14	13	0	0	0	0	0	0	0	-	6.07	82	
	Torquay ...	9 9	26	18.8	12.1	15.5	+0.5	24.4	10	8.9	27.29	-	14.2	1.77	100	.29	17	15	8	0	0	0	0	0	0	0	0	6.70	87	
	Teignmouth ...	9 9	20	18.5	12.2	15.3	+0.1	23.3	10.11	9.4	23.27	-	-	1.56	93	.46	29	14	8	0	0	0	0	0	0	0	0	6.28	84	
	Starcross ...	9 9	29	-	11.2	-	-	-	-	7.2	23.27	15.9	-	1.07	60	.33	19	14	8	0	0	0	0	0	0	0	-	6.22	-	
	Exeter, Southam ...	9 9	160	19.5	10.5	15.0	-	25.0	1.10	6.1	23	-	-	1.50	-	.64	29	14	7	0	0	0	0	0	1	0	-	-		
	Exmouth ...	9 9	195	18.3	11.4	14.9	+0.5	24.4	10	8.3	23	-	-	1.63	91	.47	29	14	8	0	0	0	0	0	0	0	-	6.24	87	
	Exeter ...	21-9	106	19.6	11.3	15.5	-	25.6	10	7.2	27	-	-	1.57	92	.47	29	11	11	0	0	0	0	0	0	0	0	6.40	-	
	Sidmouth ...	9 9	25	18.2	10.9	14.5	0.0	25.0	10	7.2	23	-	-	2.55	-	.60	19.29	13	12	-	0	-	-	-	0	0	-	6.07	85	
	St. Mary's, Scilly ...	21-9	158	16.3	11.6	13.9	-0.4	19.3	10	9.6	8	-	-	1.73	99	.52	17	15	11	0	0	0	0	3	0	-	-	-		
	Penzance ...	9 9	62	17.6	11.4	14.5	-0.4	22.2	1	7.8	8	-	-	2.58	132	.73	19	16	13	0	0	0	0	1	1	0	0	6.63	90	
	NORTHERN IRELAND	Gulval ...	9 9	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Culdrose ...	9 9	268	15.4	11.0	13.7	-	21.7	8.10	8.3	7	-	-	2.59	-	.68	19	13	13	0	0	0	0	2	1	0	0	6.80	-
Rosewarne ...		9 9	250	17.2	11.1	14.1	-	23.3	10	7.2	7.8	15.5	13.5	3.07	168	.60	19	17	11	0	0	0	0	1	0	0	2	6.57	-	
Lizard ...		9 9	240	16.1	11.1	13.6	-	20.3	14.15	8.3	7	-	-	2.11	129	.50	19	16	13	0	0	0	0	0	-	0	-	6.98	-	
Falmouth ...		9 9	167	17.1	11.6	14.3	-0.4	21.1	15	8.3	23	-	-	2.83	143	.70	19	15	12	0	0	0	0	1	0	0	0	6.54	87	
Newquay ...		9 9	176	17.4	11.5	14.5	+0.3	24.4	9.10	7.2	7	-	-	3.00	169	.66	19	14	12	0	0	0	1	-	0	-	6.50	89		
St. Mawgan ...		21-9	337	17.4	11.3	14.3	-	24.1	1	7.5	8	-	-	3.45	-	.69	19	15	11	0	0	0	0	2	0	0	0	6.81	-	
St. Austell ...		9 9	310	18.3	11.4	14.9	-	26.1	10	8.3	7	-	-	2.80	121	.89	19	15	13	0	0	0	0	1	0	0	0	-	-	
Fowey ...		9 9	51	18.3	11.8	15.1	+0.4	24.4	1	8.3	7	-	-	2.45	-	.75	19	16	13	0	0	0	0	1	0	0	-	-		
Bude ...		9 9	50	17.9	11.2	14.5	+0.3	25.6	1.9.10	5.6	15	14.9	-	2.36	132	.45	19.29	11	10	-	0	-	-	-	-	-	-	6.38	89	
Ellbridge ...	9 9	190	16.6	10.6	13.6	-0.9	25.0	10	5.6	7	-	-	3.28	150	.83	19	14	11	0	0	0	0	0	0	0	0	6.59	92		
Loughmore Forest		9 9	572	17.3	8.2	12.7	-	25.0	9.11	2.8	15	-	-	4.15	-	1.45	17	16	15	0	0	0	0	0	2	0	0	0	-	-
Derry	Ballykelly ...	21-9	3	18.1	9.8	13.9	+0.3	25.4	10	6.0	15	-	-	2.59	117	.98	17	18	16	0	0	0	0	1	0	0	0	6.48	114	
	Derrynoyd Forest	9 9	292	17.9	8.7	13.3	-	25.6	11	5.0	15	-	-	3.51	-	.86	17	18	16	0	0	0	0	2	0	0	2	0	-	
	Somerset Forest	9 9	142	18.1	9.1	13.6	-	25.6	9.10	5.6	15	-	-	4.55	-	1.59	17	17	14	0	0	0	0	1	0	0	0	-	-	
	Garvaghy Forest	9 9	292	17.7	8.6	13.1	-	25.6	11	4.4	15	-	-	4.01	-	.82	17	18	16	0	0	0	0	1	0	0	0	-	-	



1963

[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS

June

1963

DISTRICT, COUNTY AND PLACE			Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																				
					At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS							FORCE (0-12)					DIRECTION																																														
												0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,080 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.W.	W.	N.W.																																
																																0	1	2	3	4								5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,080 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	0	1	2	3	4	5	6	7	8	9	10	11	12				
																																						0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,080 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	0	1	2	3	4	5	6	7	8	9	10	11	12					
2 ENGLAND, N.E.																																																																											
Northumberland	Acklington	H	3	151	1011.9	-	9.9	0.4	11.7	95	5.9	2	5	3	3	13	4	0	3	1	2	0	4	8	3	5	4	0	1	7	21	1	9	4	0	0	3	7	5	1	0	0																																	
			9	151	1012.2	-	13.2	1.4	12.7	85	6.2	1	2	4	11	10	2	0	1	1	0	1	4	7	5	5	6	0	2	14	14	0	5	9	2	3	3	3	5	0	0																																		
			15	151	1012.0	-	14.4	2.0	12.9	81	6.0	1	2	6	11	10	0	0	0	0	0	1	4	6	3	8	0	2	16	12	0	2	8	7	4	0	6	3	0	0																																			
			21	151	1012.5	-	11.2	0.7	12.1	91	5.9	0	6	4	6	12	2	0	2	1	0	2	8	5	4	3	5	0	0	8	21	1	9	4	0	3	2	7	4	0	0																																		
			3	130	1012.1	-	10.8	0.6	12.0	92	6.0	3	3	3	5	12	4	1	2	1	0	0	3	4	17	2	0	1	0	11	16	2	11	1	2	0	5	1	8	0	0																																		
	Tynemouth	H	9	130	1012.3	-2.9	12.3	1.3	12.2	85	6.5	2	1	4	6	14	3	1	2	0	0	3	3	7	9	5	0	0	2	13	13	2	8	3	4	2	3	3	5	0	0																																		
			15	130	1012.3	-	13.3	1.6	12.3	82	6.3	1	2	4	11	9	3	1	1	1	0	3	2	8	7	7	0	0	1	17	11	1	6	5	4	4	3	0	7	0																																			
			21	130	1012.3	-	11.9	1.2	12.0	87	6.5	1	2	5	5	12	5	2	3	0	1	1	3	9	3	8	0	0	1	19	1	10	2	2	0	7	0	7	1	0																																			
			3	118	1012.2	-	10.7	0.8	11.7	90	6.2	1	4	3	7	13	2	0	2	1	0	5	6	4	5	5	2	0	0	4	21	5	10	3	0	0	5	2	0	0																																			
			9	118	1012.3	-	13.7	1.9	12.3	79	6.1	1	4	2	11	12	0	0	1	0	1	3	4	8	3	6	4	0	0	12	15	3	6	7	0	0	6	4	0	0																																			
	Middleton St. George	H	15	118	1011.9	-	16.4	3.3	12.5	67	5.6	2	4	5	9	10	0	0	0	0	0	6	3	4	7	0	0	0	16	14	0	7	8	2	2	1	7	3	0	0																																			
			21	118	1012.4	-	12.7	1.5	12.1	82	5.8	0	7	3	6	13	1	0	0	1	4	2	6	6	2	6	3	0	0	5	25	0	10	5	0	0	4	6	3	2																																			
			3	131	1012.1	-	10.8	0.7	11.9	91	5.5	3	4	4	7	11	1	0	1	1	2	1	7	9	4	2	3	0	0	11	17	2	13	1	1	1	4	3	4	1																																			
			9	131	1012.2	-	14.3	2.1	12.6	77	5.6	0	6	4	12	8	0	0	0	0	1	6	9	5	3	6	0	0	15	15	0	9	2	4	3	3	4	5	0																																				
			15	131	1011.4	-	17.5	3.8	12.9	66	5.4	0	7	3	13	7	0	0	0	0	1	0	12	2	5	10	0	0	13	12	0	4	3	8	0	1	3	9	2	0																																			
	Dishforth ...	H	21	131	1012.5	-	13.2	1.7	12.4	81	5.3	0	8	3	10	9	0	0	0	0	0	4	2	10	3	3	8	1	0	4	25	0	8	3	2	5	2	7	0	0																																			
			3	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-																																				
			9	210	1012.0	-	12.5	1.2	12.5	87	6.5	2	2	2	7	12	5	1	2	0	2	0	1	8	10	5	1	0	0	14	15	1	6	3	6	1	4	2	5	2																																			
			15	210	1011.9	-	13.8	1.6	13.1	94	6.4	0	3	3	12	9	3	2	0	0	1	0	2	9	7	9	0	0	0	12	18	0	5	4	6	5	1	3	4	2																																			
			21	210	1011.9	-	12.3	1.2	12.3	86	6.3	0	3	3	11	7	6	1	5	0	0	1	9	11	3	0	0	0	1	9	15	5	3	3	1	3	2	7	3	1																																			
	Leconfield	H	3	28	1012.3	-	10.5	0.7	11.6	91	4.7	4	6	3	9	8	0	0	0	1	2	2	3	7	12	2	1	0	0	9	15	6	7	2	0	4	5	3	1	0																																			
			9	28	1012.5	-	14.4	1.9	13.0	79	5.6	3	5	2	9	11	0	0	0	0	0	2	9	11	3	5	0	0	1	17	11	1	1	6	6	0	5	4	7	0																																			
			15	28	1012.2	-	16.3	2.8	13.4	73	5.1	1	6	5	11	7	0	0	0	0	0	1	6	11	5	7	0	0	1	19	9	1	1	6	8	2	1	3	8	0																																			
			21	28	1012.7	-	12.3	0.9	12.5	87	5.7	0	5	5	12	8	0	0	0	0	1	5	11	8	2	3	0	0	1	3	24	2	5	6	5	1	2	4	5	0																																			
			3	54	1012.1	-	11.5	0.8	12.3	91	5.1	3	4	6	9	8	0	0	1	0	2	0	3	22	2	0	0	0	0	10	20	0	5	3	5	3	3	1	10	0																																			
	Spurn Head	H	9	54	1012.4	-3.4	12.8	1.1	12.8	87	5.7	3	2	4	9	12	0	0	0	0	0	4	6	16	4	0	0	0	0	16	12	2	4	4	6	1	5	0	7	1																																			
			15	54	1012.2	-	13.9	1.6	13.1	83	5.6	3	3	3	16	4	1	0	1	0	1	2	3	18	5	0	0	0	1	12	16	1	7	1	6	5	2	1	7	0																																			
			21	54	1012.2	-	12.3	1.0	12.7	89	5.8	2	0	8	11	8	1	0	0	1	2	0	4	21	2	0	0	0	1	11	18	0	5	5	4	3	5	1	7	0																																			
			3	227	1012.5	-	10.5	0.7	11.7	91	4.8	5	5	3	4	12	1	0	0	1	0	1	5	10	9	2	2	0	0	8	21	1	9	4	2	0	3	6	4	1																																			
			9	227	1012.5	-	14.5	2.2	12.6	77	5.4	3	5	3	9	10	0	0	0	0	0	2	6	11	10	1	0	0	3	18	11	1	3	7	3	0	2	10	3	1																																			
	Waddington	H	15	227	1011.8	-	17.6	3.9	12.8	64	5.4	2	5	3	15	5	0	0	0	0	0	3	11	13	3	0	0	3	17	10	0	2	5	7	1	2	7	6	0																																				
			21	227	1012.6	-	12.7	1.4	12.4	84	5.5	2	3	7	10	8	0	0	0	0	1	2	6	14	7	0	0	0	9	19	2	1	9	2	4	3	4	4	1																																				
			3	47	1012.4	-	10.4	0.4	11.3	94	5.0	4	4	5	8	8	1	0	0	1	1	3	6	12	6	1	0	0	0	8	19	3	6	3	2	2	4	5	3	2																																			
			9	47	1012.6	-	14.5	1.8	13.2	80	5.7	1	6	1	15	7	0	0	0	0	0	10	13	6	1	0	0	0	17	12	1	4	5	0	6	2	6	1																																					
			15	47	1012.2	-	16.3	2.5	13.8	75	5.4	2	4	2	18	4	0	0	0	0	1	1	8	12	8	0	0	0	1	19	10	0	3	6	6	3	2	5	4	1																																			
	Manby ...	H	21	47	1012.7	-	11.8	0.7	12.8	92	5.2	1	7	6	6	9	1	0	0	1	1	2	15	9	2	0	0	0	1	4	23	2	4	3	6	3	5	2	3	2																																			
			3 ENGLAND, E.																																																																								
			Norfolk	Marham	H	3	89	1012.5	-	10.8	0.6	12.0	93	5.1	5	5	1	8	9	2	0	2	0	0	5	11	8	3	1	0	0	9	20	1	6	4	4	1	5	8	0	1																																	
						9	89	1012.7	-	15.1	2.3	13.1	77	5.3	4	5	1	9	11	0	0	0	0	0	0	10	7	11	1	0	2	13	14	1	7	3	2	1	7	5	3	1																																	
						15	89	1012.1	-	18.4	4.0	13.3	64	5.3	2	5	3	15	4	0	0	0	0	0	0	6	10	11	3	0	0	1	19	10	0	6	4	3	1	5	6	4																																	
21	89	1012.7				-	13.4	1.6	12.7	83	5.8	2	2	6	10	10	0	0	0	0	0	0	1	12	9	6	2	0	0	12	18	0	5	7	4	2	5	5	2	0																																			
3	263	1012.3				-	10.3	0.4	11.9	94	5.0	5	5	3	5	8	4	0	0	4	0	0	4	7	11	4	0	0	0	13	16	1	7	3	2	3	9	1	1																																				
	West Raynham	H	9	263	1012																																																																						



DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)		VISIBILITY										WIND. NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
										0	1	2	3	4	5	6	7	8	9	10-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
																														10	11	12	13	14									15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS June 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																				
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS							FORCE (0-12)				DIRECTION															
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-5 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force				N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
																														6.	4.	3.	2.								
																														Speed in knots	11	1	0								
22 to 33	11 to 21	1 to 10	0																																						

7a ENGLAND, N.W.		G.M.T.	ft.	mb.	mb.	°C.	°C.	mb.	%																														
Cumberland	Carlisle	H	3	92	1012.5	-	-	10.7	0.7	11.8	91	5.8	2	2	6	3	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			9	92	1012.5	-	-	14.4	2.2	12.6	75	5.5	2	5	1	6	16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			15	92	1012.2	-	-	16.9	3.5	12.7	67	6.0	0	5	4	2	19	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Lancashire	Squires Gate	H	21	92	1012.6	-	-	13.1	1.6	12.3	82	5.7	0	7	4	2	17	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			3	35	1011.9	-	-	11.3	0.8	12.1	90	5.3	2	5	5	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			9	35	1011.9	-	-	15.4	2.3	13.3	77	5.2	3	6	2	9	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Speke		H	15	35	1011.6	-	-	17.7	3.3	13.9	70	5.6	0	6	5	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			21	35	1012.0	-	-	13.7	1.4	13.2	84	5.5	0	6	5	12	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			3	85	1012.2	-	-	12.2	1.3	12.0	84	4.8	6	2	4	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
Cheshire	Ringway	H	9	85	1012.2	-	-	15.1	2.6	12.5	73	5.3	6	2	3	9	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			15	85	1011.9	-	-	18.3	4.5	12.3	61	5.5	0	6	7	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			21	85	1012.2	-	-	14.9	2.5	12.5	74	5.3	1	7	5	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Anglesey	Valley	H	3	251	1011.9	-	-	11.6	1.5	11.2	82	5.2	1	7	3	9	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			9	251	1011.8	-	-	15.2	3.1	11.7	69	5.3	4	2	4	11	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			15	251	1011.2	-	-	18.1	5.0	11.0	57	5.4	0	7	5	9	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
7b NORTH WALES			21	251	1011.9	-	-	14.6	2.9	11.6	70	5.6	1	5	4	12	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			3	29	1011.8	-	-	11.3	0.6	12.4	92	4.8	4	6	3	9	7	1	0	1	2	1	2	6	13	3	2	0	1	17	8	4	2	7	3	0	6	3	2
			9	29	1011.9	-4.2	-	13.9	1.6	13.0	83	5.0	3	6	4	9	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
8a SOUTH WALES			15	29	1011.6	-	-	15.9	2.5	13.5	77	4.8	1	8	5	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			21	29	1011.9	-	-	13.0	1.1	13.1	88	5.5	2	4	6	5	11	2	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
			3	382	1011.9	-	-	12.0	0.9	12.5	89	4.9	2	8	2	9	6	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Cardigan	Aberporth	H	9	382	1012.1	-	-	13.6	1.7	12.7	82	5.3	1	7	4	8	7	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			15	382	1011.6	-	-	15.5	2.5	13.2	76	5.1	0	8	5	11	5	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			21	382	1012.2	-	-	13.1	1.4	12.7	85	5.4	1	6	5	9	7	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Glamorgan	Mumbles Head	H	3	123	-	-	-	13.3	1.1	13.4	88	5.6	1	6	2	6	13	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			9	123	-	-	-	14.3	1.6	13.5	83	4.9	4	5	5	6	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			15	123	-	-	-	16.0	2.5	13.7	77	5.2	0	9	5	9	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Rhoose		H	21	123	-	-	-	14.6	1.6	13.7	84	5.6	2	7	7	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			3	225	1012.2	-	-	12.4	0.8	13.1	91	5.9	3	2	5	5	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			9	225	1012.4	-	-	14.9	1.6	13.6	80	5.2	4	3	5	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
8b ENGLAND, S.W.			15	225	1012.1	-	-	17.4	3.2	13.7	71	5.1	0	7	6	13	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			21	225	1012.5	-	-	14.1	1.5	13.5	84	5.5	1	6	3	11	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			3	35	1012.3	-	-	12.6	0.8	13.2	90	5.2	2	5	4	8	8	3	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Dorset	Portland Bill	H	9	35	1012.6	-	-	13.8	1.5	13.6	86	5.9	2	1	8	3	14	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			15	35	1012.6	-	-	14.5	1.5	13.8	84	5.8	1	5	5	4	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			21	35	1012.8	-	-	13.4	1.2	13.3	87	5.7	1	3	7	7	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Devon	Hartland Pt.	H	3	306	1011.6	-	-	12.6	0.9	13.1	90	5.2	3	5	4	8	8	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			9	306	1011.6	-	-	13.5	1.3	13.3	86	5.3	3	3	6	6	6	4	0	1	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			15	306	1011.8	-	-	14.7	1.6	13.8	83	5.4	1	4	10	6	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Mount Batten		H	21	306	1012.1	-	-	13.5	1.1	13.5	89	5.5	0	7	6	6	8	3	0	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			3	100	1012.7	-	-	12.4	0.8	13.0	90	4.9	1	10	3	6	8	2	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
			9	100	1012.8	-4.9	-	14.8	1.6	14.1	84	5.1	3	6	5	8	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Chivenor		H	15	100	1012.9	-	-	16.4	2.4	14.1	77	5.1	0	9	4	9	7	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			21	100	1013.4	-	-	13.6	1.2	13.5	87	5.3	1	9	1	7	11	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0			
			3	23	1012.4	-	-	12.7	0.9	13.1	89	5.6	2	5	2	12	8	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Exeter		H	9	2																																			



TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, June

1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	852	23	78	18	474.6	30	436	22	78	18	265.3	30	938	23	120	18	538.5	30
Eskdalemuir Observatory ...	794	3	147	29	421.3	30	344	30	136	7	250.0	30	868	3	164	29	464.7	30
Cambridge ... ..	800	2	137	28	502.6	30	416	21	135	26	259.8	30	-	-	-	-	-	-
Kingsway ... ..	810	2	146	13	476.7	30	341	27	132	13	236.7	30	898	10	165	13	527.6	30
Kew Observatory ... ..	792	2	147	13	473.9	30	387	21	142	14	253.9	30	889	2	171	14	543.4	30
Aberporth ... ..	843	22	77	29	546.3	30	441	8	77	29	295.2	30	-	-	-	-	-	-

TABLE VIII.—NUMBER OF DAYS IN June 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES BETWEEN GIVEN LIMITS.

STATION	MAXIMUM TEMPERATURE °C.								MINIMUM TEMPERATURE °C.								STATION	MAXIMUM TEMPERATURE °C.								MINIMUM TEMPERATURE °C.								
	0° or less	0° 1' to 5°	5° 1' to 10°	10° 1' to 15°	15° 1' to 20°	20° 1' to 25°	25° 1' to 30°	Above 30°	-15° or less	-14° 9' to -10°	-9° 9' to -5°	-4° 9' to 0°	0° 1' to 5°	5° 1' to 10°	10° 1' to 15°	Above 15°		0° or less	0° 1' to 5°	5° 1' to 10°	10° 1' to 15°	15° 1' to 20°	20° 1' to 25°	25° 1' to 30°	Above 30°	-15° or less	-14° 9' to -10°	-9° 9' to -5°	-4° 9' to 0°	0° 1' to 5°	5° 1' to 10°	10° 1' to 15°	Above 15°	
Lerwick Observatory ... ..	0	0	0	26	4	0	0	0	0	0	0	0	1	27	2	0	Edgbaston ... ..	0	0	0	3	16	11	0	0	0	0	0	0	0	0	10	20	0
Stornoway ... ..	0	0	0	17	10	3	0	0	0	0	0	0	0	25	5	0	Kew Observatory ... ..	0	0	0	0	15	13	2	0	0	0	0	0	0	0	3	26	1
Craibstone ... ..	0	0	0	11	19	0	0	0	0	0	0	0	2	27	1	0	Hastings ... ..	0	0	0	9	14	7	0	0	0	0	0	0	0	4	26	0	
Rothsay ... ..	0	0	0	8	12	9	1	0	0	0	0	0	14	16	0	Southampton ... ..	0	0	0	1	16	9	4	0	0	0	0	0	0	0	7	23	0	
Renfrew ... ..	0	0	0	6	14	9	1	0	0	0	0	0	10	20	0	Stonyhurst ... ..	0	0	0	7	13	9	1	0	0	0	0	0	0	0	15	15	0	
Eskdalemuir Observatory ... ..	0	0	0	9	16	5	0	0	0	0	0	2	23	5	0	Bidston ... ..	0	0	0	8	13	8	1	0	0	0	0	0	0	5	25	0		
Douglas ... ..	0	0	0	11	14	5	0	0	0	0	0	0	17	13	0	Valley ... ..	0	0	0	11	13	6	0	0	0	0	0	0	0	12	18	0		
Cockle Park ... ..	0	0	0	10	18	2	0	0	0	0	0	2	24	4	0	Falmouth ... ..	0	0	0	4	24	2	0	0	0	0	0	0	0	7	23	0		
Gorleston ... ..	0	0	0	9	20	1	0	0	0	0	0	0	9	21	0	Aldergrove ... ..	0	0	0	6	19	5	0	0	0	0	0	0	0	18	12	0		
Cambridge ... ..	0	0	0	1	12	14	3	0	0	0	0	0	14	16	0	Armagh ... ..	0	0	0	4	18	7	1	0	0	0	0	0	0	22	8	0		

TABLE III—ADDITIONS AND CORRECTIONS

[illegible]

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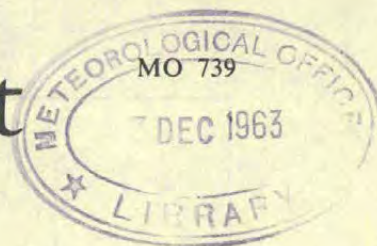
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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



Volume 80 Number 7

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### July 1963 — *Mostly cool and dry but warm towards the end.*

Weather was mainly cyclonic until the 19th with a shallow depression over the south-west during the first week after which a succession of troughs moved across the country. The remainder of the month was predominantly anticyclonic apart from a short break around the 24th.

During the first five days a shallow depression centred off southern Ireland gave frequent showers and widespread thunderstorms with heavy rain at times. Local falls of an inch or more were recorded in Norfolk on the 2nd and in Cornwall on the 3rd and 4th, and there was flooding at Kilmarnock on the 5th after a violent thunderstorm.

On the 6th a deepening depression moved north-east across southern England. This was the wettest day of the month, many districts having long periods of heavy rain with falls exceeding an inch over wide areas. The depression became centred over southern Scandinavia on the 7th and for the next few days pressure remained low in the region of the Baltic with a northerly airstream covering the British Isles. Weak fronts moving southwards in the airstream maintained rather cool weather with occasional slight rain, but there were also good sunny periods. Rain was rather more widespread on the 10th as the fronts became slow-moving.

During the next three days pressure was fairly uniform over the British Isles and weather generally quiet and rather cool with variable cloud and scattered thundery showers. Clear overnight skies led to the formation of patches of early morning fog over south-east England on the 13th.

The 14th to the 19th was an unsettled period with a series of troughs and weak ridges crossing the country. A deep depression moved north-east between Scotland and Iceland on the 14th and 15th; rain was widespread and prolonged on both days and heavy at times on the 15th as an associated wave disturbance moved north-east across the country. The 17th and 19th were also dull and rather wet, but each was preceded by a warm sunny day.

The weather pattern changed on the 20th as an anticyclone developed over the British Isles. It became sunny and warm in all areas except in coastal districts of the English Channel; many midland and northern areas recorded around 15 hours of sunshine and afternoon temperatures exceeded 21°C at a number of places. The fine warm weather continued for another two days as the anticyclone drifted slowly eastwards; but the spell was temporarily broken by a disturbance moving north-east across the country giving widespread rain on the 23rd and 24th. The sunny weather returned on the 25th as another anticyclone moved towards southern Ireland. Weather became progressively warmer in all areas except in the extreme north and by the 30th afternoon temperatures of 29°C were reported in districts as far apart as south-east England and eastern Scotland. During the last four days of the month many places had practically unbroken sunshine with daily totals of 15 hours or more in parts of northern England and Scotland.

**Pressure and Wind** — Mean pressure was above the average everywhere, the excess at 9 hr ranging from 3.8 mb at Dyce and Stornoway to 1.8 mb at Scilly. Surface wind was mainly between east and south-east at first, becoming mainly north to north-west on the 6th-10th, after which variable winds preceded and followed south-westerlies on

the 14th-19th. Winds freshened from the north-west on the 24th but became mainly southerly from the 26th until the end of the month. Gale force was reached in Scotland on 4 days and in England and Wales on the 14th, 15th and 20th. Gusts of 51 kt were recorded at Lerwick and Moor House on the 14th and 20th respectively.

**Temperature** — Mean temperature was everywhere below the average the deficit being 1.1°C over England and Wales and 1.0°C over Scotland and Northern Ireland. Day temperatures were below the average until the 19th, especially during the second week when they were about 5°C below the average in parts of south-east England and the Midlands. They rose above the average about the 21st, but the warmest day in most places was the 30th when afternoon temperatures exceeded 27°C. Temperature over grass fell to -2.2°C at Benbecula on the 11th and at Auchterhouse on the 25th.

Extremes included: — (England and Wales) 28.9°C at Wisley on the 30th, Littlehampton on the 22nd and at Ceinws on the 29th, -1.1°C at Santon Downham on the 21st; (Scotland) 28.9°C at Gordon Castle on the 30th; 0.6°C at Strachan on the 11th and at Cannich on the 18th; (Northern Ireland) 25.8°C at Ballykelly on the 30th, 1.7°C at Loughgall and at Knockmany Forest on the 13th.

**Precipitation** — The general rainfall expressed as a percentage of the 1916-50 average was 67 for England and Wales, 70 for Scotland and 72 for Northern Ireland. Less than 25 per cent of the average was recorded in a small area along the north coast of the Wirral and North Wales, but more than the average amount fell in west Somerset, north Norfolk, and in isolated areas in the Pennines. Moderate to large deficits were recorded over most of eastern Scotland and smaller deficits in the west. Some areas of central and south-west Scotland had more than average rainfall. The period 26th-31st was dry everywhere.

Thunder was heard in Scotland on 14 days mostly during the first half of the month, and in England and Wales on the 1st-8th, 10th, 12th, 13th and 15th (12 days). Thunderstorms were widespread on the 2nd, 3rd and 4th.

Snow and sleet showers fell over high ground in Scotland on the 9th, 10th and 25th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 101 in England and Wales, 114 in Scotland and 118 in Northern Ireland. In Scotland sunshine totals were below the average only in eastern districts and near the Moray Firth. In all districts of England and Wales sunshine was within 5 per cent of the average, being slightly below in the north-east and south-west and average or above in other districts.

**Fog** — In Scotland early morning fog occurred at one place or another on 17 days; in England and Wales it was recorded at one place or another on the 1st-6th, 10th, 14th, 15th, 17th-24th and 31st (18 days) and was fairly widespread in the north-east on the 2nd and the south-west on the 19th.

**Miscellaneous Phenomena** — The aurora was not seen during the month.

F42A



TABLE I—DISTRICT VALUES— July 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	%		%
Eastern	27.8	0.6	-0.5	-1.3	-0.9	—	—	78	-2	128
1 SCOTLAND, E.	28.9	0.6	-1.4	-1.1	-1.2	—	—	65	-1	99
2 ENGLAND, N.E.	27.2	1.1	-1.5	-1.4	-1.4	-1.4	-0.8	49	0	97
3 ENGLAND, E.	27.5	-1.1	-1.5	-1.4	-1.4	-0.9	-0.5	72	-2	104
4 MIDLAND COUNTIES	28.3	1.7	-0.7	-1.1	-0.9	-0.6	-0.4	85	-1	100

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	%		%
Western	28.9	3.3	-1.2	-1.0	-1.1	-0.9	-0.9	58	-3	105
6 SCOTLAND, W.	26.1	1.7	-1.0	-1.0	-1.0	-1.0	-1.3	81	-1	114
7 ENGLAND, N.W. (and N. Wales)	28.9	0.6	-0.5	-1.0	-0.7	-1.5	-1.1	47	-2	106
8 ENGLAND, S.W. (and S. Wales)	27.5	3.9	-1.0	-0.9	-1.0	-0.8	-0.5	84	0	95
NORTHERN IRELAND	25.8	1.7	-0.5	-1.4	-1.0	-	-	72	-1	118

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— July 1963 (1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities							
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust				
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Day and Time			
		ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	knots	°	knots	day hr.	knots	day	h m		
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	20	1	7	58	381	270	34	0	12.0	250	36	20	01	51	20	0040
	Orkney	Kirkwall	134	50	33	-	0	4	14	329	337	64	0	13.3	290	28	20	04	45	20	0140
	Caithness	Dounreay	110	39	30	-	0	3	11	244	426	0	63	9.8	250	26	19	17	42	19	1625
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	-	0	10	91	422	169	62	0	13.7	260	33	19	16	47	19	1500
	Duirinish	Benbecula	125	65	55	-	0	5	13	273	358	95	0	9.3	190	26	15	07	40	15	0255
	Inverness	Lossiemouth	69	51	35	-	0	7	44	409	248	43	0	11.9	140	30	14	09	47	14	0805
1	Moray	Dyce	101	80	60	-	0	1	4	147	440	152	1	7.0	240	25	19	19	47	19	1915
	Aberdeen	Auchterhouse	225	40	40	-	0	1	1	80	379	284	0	5.4	170	22	14	14	31	14	1345
	Angus	Bell Rock Lighthouse	822	62	50	-	0	1	1	172	361	194	16	7.0	-	24	20	02	43	20	0125
	Perth	Rannoch	128	131	124	-	0	14	60	409	210	65	0	12.8	240	30	19	23	37	14	1920
	Fife	Leuchars	1006	56	57	-	0	0	0	252	407	85	0	8.6	250	20	20	02	31	20	0110
	Midlothian	Turnhouse	78	40	40	-	0	2	2	261	362	119	0	8.6	240	23	20	01	33	24	1635
	Argyll	Edinburgh, Blackford Hill	137	40	33	-	0	6	21	266	364	92	1	9.5	180	27	15	01	45	15	0015
6a	Bute	Tiree	496	50	34	-	0	10	36	373	214	121	0	11.3	150	32	14	09	48	14	0905
	Renfrew	Millport	89	60	47	-	0	2	3	136	312	272	21	6.3	050	25	2	10	38	1	2135
	Lanark	Paisley	188	81	31	-	0	1	1	162	457	124	0	7.4	180	22	15	02	38	15	0235
	Ayr	Renfrew	71	41	39	-	0	0	0	178	423	143	0	7.2	240	19	15	09	32	15	0930
	Dumfries	Lowther Hill	2412	43	33	24	1	11	38	303	293	109	0	10.7	310	35	24	16	47	14	0810
	Wigtown	Prestwick Airport	68	33	33	-	0	0	0	210	449	85	0	8.3	150	20	14	09	34	14	0855
		Eskdalemuir Observatory	825	50	35	-	0	2	3	89	346	306	0	5.3	200	24	14	15	42	14	1515
		West Freugh	83	33	33	-	0	2	9	190	389	156	0	7.7	200	26	14	11	43	14	1110
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	-	0	5	27	293	343	81	0	10.1	190	31	14	11	41	14	0940
		Point of Ayre	64	33	33	-	0	2	7	382	315	40	0	10.5	190	25	14	13	39	14	1245
2	Durham	Durham	389	53	33	-	0	0	0	103	348	293	0	5.3	270	20	24	17	39	15	1230
		South Shields	73	57	44	-	0	0	0	146	380	218	0	6.5	290	18	24	16	30	24	1635
	Lincoln	Cranwell	288	47	47	-	0	1	1	187	442	114	0	7.6	290	22	24	18	40	24	1700
3	Norfolk	Gorleston	45	33	33	-	0	0	0	172	537	33	2	8.4	180	20	14	15	30	24	1430
	Suffolk	Mildenhall	98	83	60	-	0	0	0	43	348	353	0	4.2	200	15	24	14	29	24	1335
	Bedford	Cardington	226	133	133	-	0	2	10	224	427	83	0	8.7	210	25	14	17	37	14	1650
	Hertford	Garston	307	50	33	-	0	0	0	13	518	213	0	4.8	230	15	24	14	29	14	1420
		Rothamsted	461	41	33	-	0	0	0	4	341	399	0	3.5	210	11	14	15	31	14	1445
	Essex	Stansted	358	31	31	-	0	0	0	192	501	50	1	8.4	200	20	14	16	32	24	1315
		Coryton	66	57	48	-	0	0	0	67	546	124	7	6.7	230	18	24	14	38	24	1320
		Shoeburyness	118	106	91	-	0	3	21	373	312	38	0	11.0	220	30	24	14	45	24	1340
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	29	350	345	20	4.1	180	15	14	19	33	14	1050
	Warwick	Edgbaston	643	118	73	-	0	0	0	16	534	194	0	4.9	180	16	14	17	31	14	1820
		Elmdon	362	30	31	-	0	0	0	144	420	180	0	6.9	190	20	14	17	34	7	1805
	Stafford	Keele	706	50	33	-	0	0	0	40	377	327	0	4.5	170	19	14	15	37	14	1430
	Gloucester	Avonmouth	92	61	33	-	0	0	0	85	547	112	0	6.9	220	16	24	14	34	24	1310
5	London	Kingsway	208	143	41	-	0	0	0	187	520	36	0	8.5	200	22	24	14	33	24	1340
	Middlesex	London(Heathrow)Airport	115	33	33	-	0	1	1	70	444	230	0	5.4	230	20	24	13	34	14	1705
		Hampton	139	101	100	-	0	0	0	59	427	258	0	5.5	220	19	24	13	44	24	1150
	Surrey	Kew Observatory	92	75	50	-	0	0	0	104	366	274	0	5.8	230	20	24	13	39	24	1145
		Gatwick	232	38	33	-	0	0	0	29	226	455	34	3.1	250	20	24	14	38	24	1410
	Kent	Isle of Grain	48	40	33	-	0	0	0	145	412	187	0	6.9	040	17	28	14	33	24	1205
		Dover	68	38	62	-	0	0	0	101	394	249	0	6.1	200	18	15	13	35	24	1230
	Sussex	Thorney Island	75	65	42	-	0	0	0	197	392	155	0	7.6	220	21	9	15	30	9	1425
	Hampshire	Hurn	86	53	46	-	0	0	0	362	344	34	0	10.7	230	23	24	09	30	15	2115
		Calshot	50	41	33	-	0	2	4	54	396	294	0	4.9	200	14	14	17	32	14	1645
		S. Farnborough	313	69	35	-	0	0	0	55	291	398	0	4.0	210	19	24	12	31	24	1155
	Berkshire	Abingdon	295	40	40	-	0	0	0	41	393	310	0	4.6	220	15	24	12	31	25	1105
	Wiltshire	Larkhill	491	51	36	-	0	0	0	54	345	345	0	4.8	230	18	14	16	32	15	1435
		Boscombe Down	425	55	55	-	0	0	0	97	342	305	0	5.5	210	19	14	23	33	14	2300
7a	Cumberland	Porton	406	44	44	-	0	0	0	190	262	292	0	6.2	200	20	15	01	32	14	1805
		Carlisle	137	42	30	-	0	0	0	206	450	87	0	8.5	170	22	14	12	32	14	1135
		Sellafield	83	39	35	-	0	1	1	225	396	123	0	8.1	220	21	14	23	37	25	1335
		Spadeadam	959	51	40	-	0	0	0	292	304	74	18	11.3	220	34	15	02	51	14	1925
	Westmorland	Moor House	1960	50	45	15	1	10	55	161	403	157	23	7.4	270	21	9	10	29	9	1030
	Lancashire	Southport	59	41	33	-	0	0	0	178	382	171	7	7.5	300	23	24	18	33	14	1100
		Fleetwood	112	50	31	-	0	3	6	174	480	86	0	8.0	190	23	14	15	35	14	1450
		Speke	84	41	33	-	0	1	4	105	466	173	0	6.3	190	17	14	18	39	14	1745
	Cheshire	Manchester W/Centre	268	147	55	-	0	0	0	187	443	105	9	-	250	20	9	08	36	15	2055
		Bidston Observatory	262	64	39	-	0	0	0	99	422	223	0	5.9	180	18	14	13	32	14	1205
		Ringway	261	33	33	-	0	0	0	205	393	112	0	9.1	190	29	14	13	38	14	1400
7b	Anglesey	Valley	80	53	40	-	0	4	34	205	393	112	0	9.1	190	26	14	08	40	14	1140
8a	Cardigan	Aberporth	483	41	41	-	0	2	12	271	335	126	0	9.1	190	26	14	13	32	14	1415
	Glamorgan	Port Talbot	91	40	35	-	0	0	0	221	376	147	0	8.1	220	19	17	15	29	17	1415
		Rhosee	257	37	32	-	0	1	1	236	456	51	0	8.8	260	22	24	13	32	24	1240
8b	Devon	Plymouth Hoe	191	88	65	-	0	1	8	197	361	178	0	7.6	-	26	14	16	31	14	1610
	Cornwall	St. Mary's, Scilly	230	65	57	-	0	1	1	289	362	92	0	9.2	200	22	14	13	34	14	0940
		The Lizard	315	75	60	-	0	3	19	329	341	55	0	10.3	210	27	14	13	36	14	1520
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	-	0	0	0	98	390	256	0	5.6	160	19	14	06	35	14	0930
	Antrim	Aldergrove	281	65	55	-	0	0	0	409	276	59	0	10.1	170	21	14	08	38	24	1515
CHANNEL ISLES																					
		Jersey Airport	359	86	50	-	0	0	0	448	271	25	0	11.4	270	21	10	17	31	28	2135

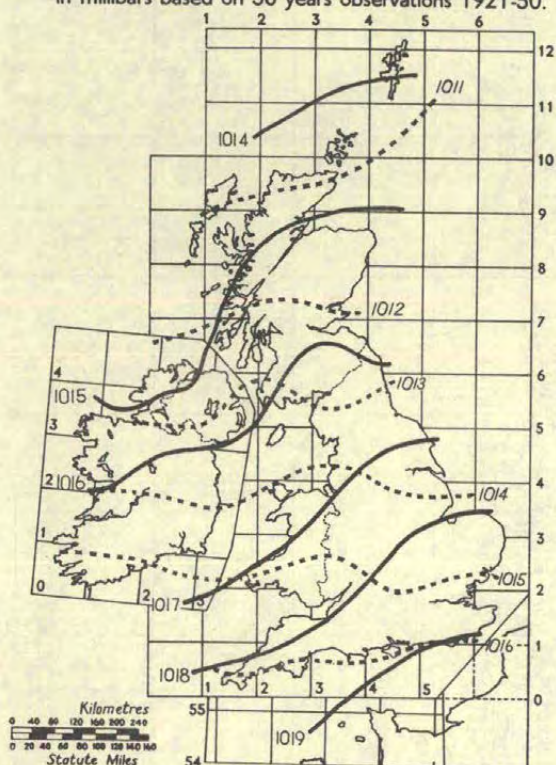


# MONTHLY WEATHER CHARTS

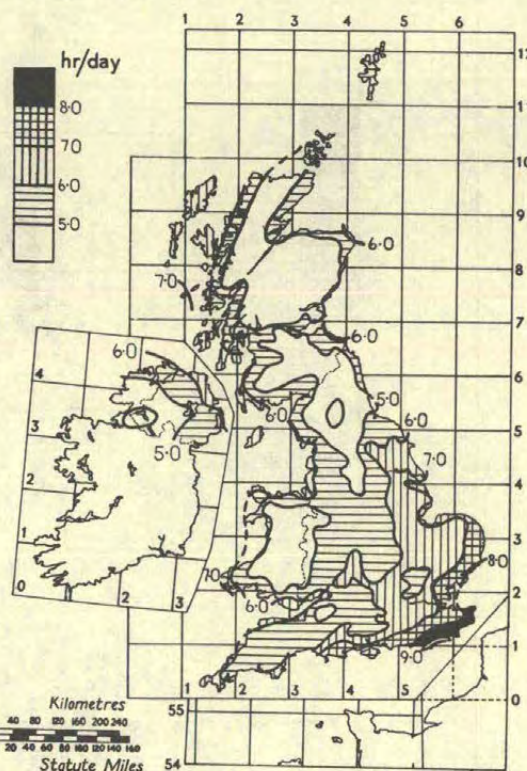
## JULY 1963

### MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

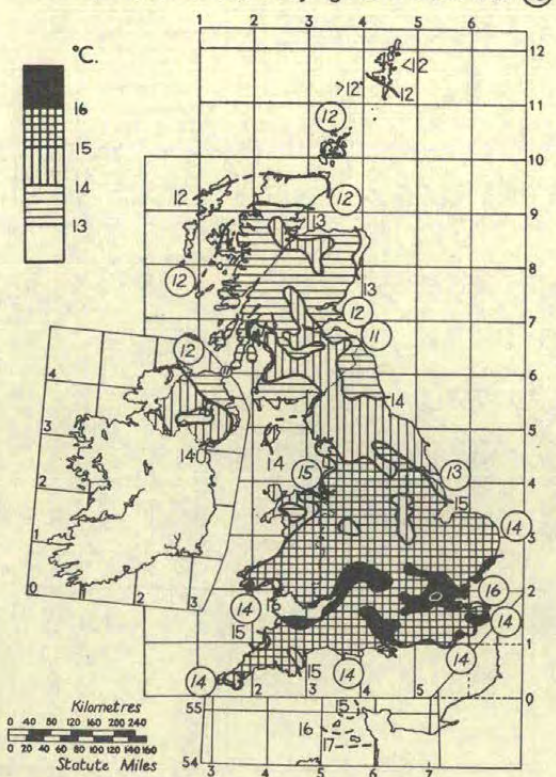


### BRIGHT SUNSHINE

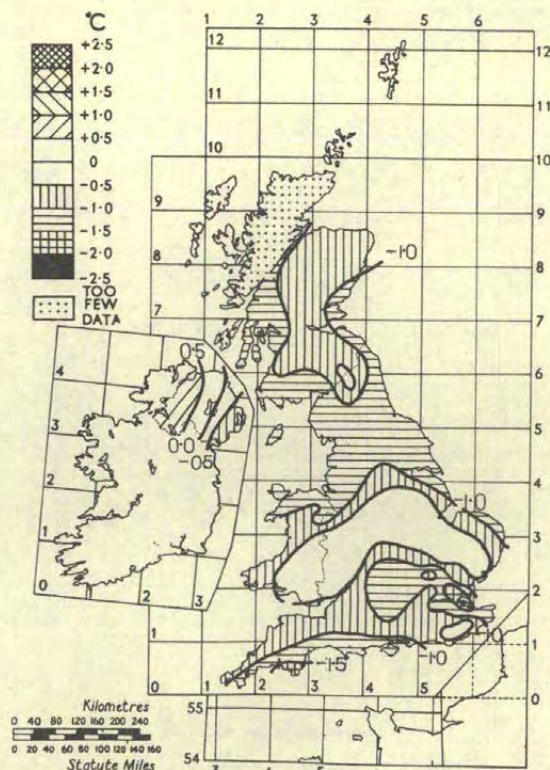


### MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus (10)



### ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

JULY 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

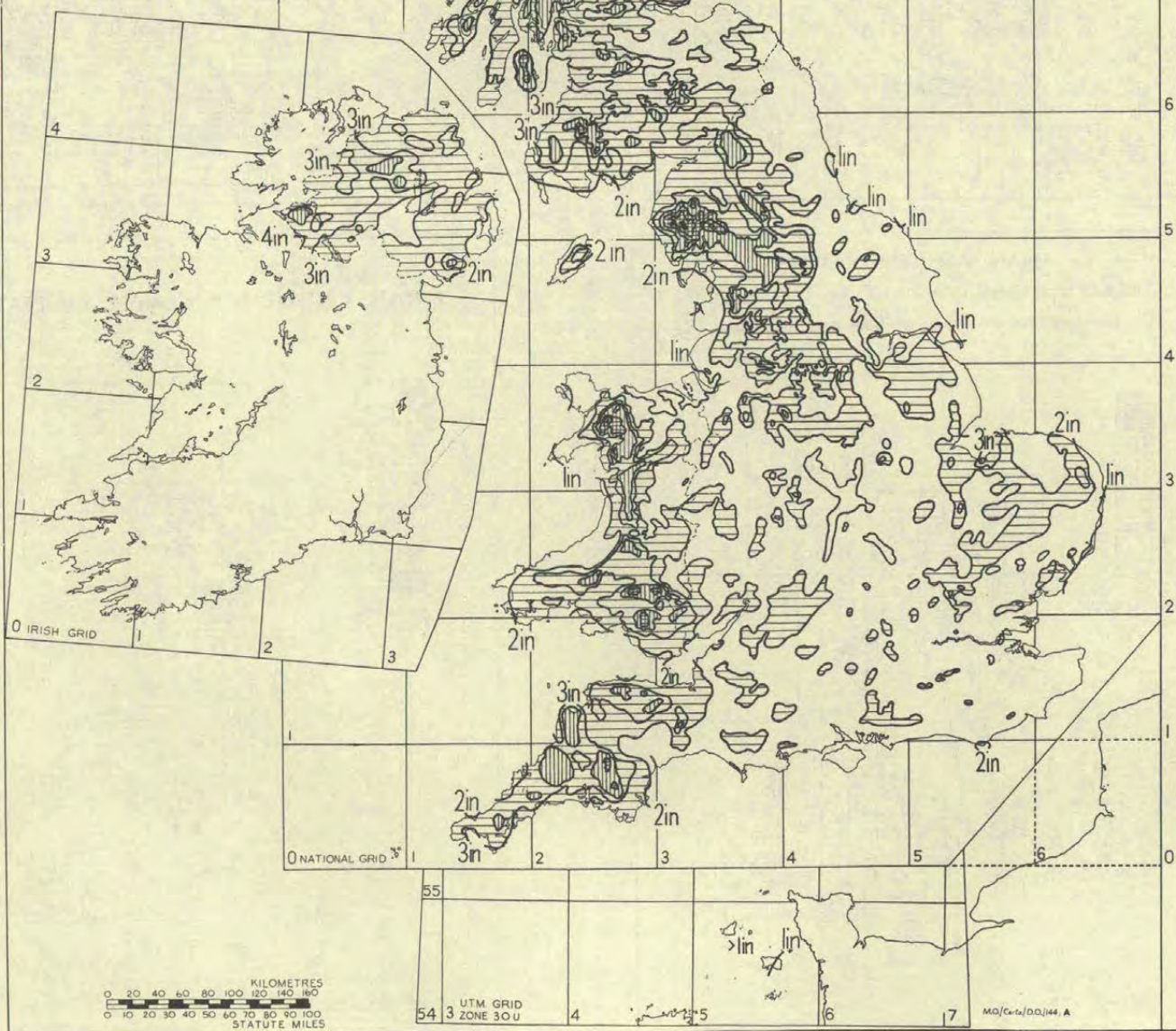
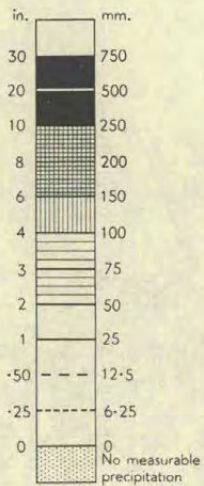




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE					
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h	Air Frost	Grass min below 0° C	Gale	Daily Mean	Percentage of Average			
			A Max.	B Min.		Mean of A and B	Maximum	Date	Minimum		Date	in.			%	Amount												Date	0.1in. (0.2mm.) or more	0.4in. (1.0mm.) or more
			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%	
0 SCOTLAND, N.																														
Zetland	Hamnavoe	9 9	70	14.2	9.9	12.1	-	18.9	31	5.6	13	-	-	1.77	-	.67	23	12	10	0	0	0	0	0	0	0	0	6.04	-	
	Lerwick Obs'y.	21-9	269	13.6	8.3	10.9	-1.1	17.5	28	4.0	13	-	-	2.18	86	.80	23	15	11	0	0	0	0	0	0	0	0	2	5.63	139
	Baltasound	9 9	78	14.7	8.0	11.3	-	19.4	31	2.8	17	10.7	-	2.18	82	.55	18,23	14	10	0	0	0	0	0	0	0	0	0	5.38	-
Orkney	Sule Skerry	9 9	43	13.8	10.0	11.9	-	20.5	30	6.5	11	-	-	1.50	-	.27	23	16	9	0	0	0	0	0	0	0	0	-	-	
	Stenness	9 9	75	15.5	9.0	12.3	-	21.7	30	3.9	11	11.7	-	1.29	-	.49	23	16	7	0	0	0	0	0	0	0	0	4.65	-	
	Costa	9 9	115	15.1	9.1	12.1	-	22.2	30	5.0	11	-	-	1.30	-	.30	23	17	11	0	0	0	0	0	0	0	0	2	5.52	-
	Kirkwall	21-9	84	14.5	8.7	11.6	-	20.3	28	3.4	11	-	-	1.01	38	.37	23	14	8	0	0	1	0	0	0	0	0	4.96	139	
Caithness	Dounreay	9 9	70	14.7	9.1	11.9	-	22.2	1	3.9	14	-	-	4.66	-	1.03	19	19	15	0	0	0	0	0	0	0	1	-	-	
	Wick	21-9	119	14.9	8.7	11.8	-1.1	19.0	21,30	2.0	12	-	-	1.50	58	.37	23	15	10	0	0	0	0	0	2	0	2	5.24	116	
Sutherland	Cape Wrath	21-9	367	13.1	9.5	11.3	-0.9	22.8	30	7.0	10	-	-	2.42	68	.48	23	14	11	0	0	0	0	0	4	0	0	-	-	
	Achany	9 9	280																											
	Strathy	9 9	120	16.2	8.7	12.5	-0.7	26.7	30	2.2	12	-	-	1.72	54	.39	8	17	11	0	0	0	0	0	0	0	0	4.72	117	
Ross & Cromarty	Stornoway	21-9	11	15.1	9.0	12.1	-1.2	21.4	30	2.5	12	-	-	2.60	84	.37	16,21	16	13	0	0	0	0	0	0	0	3	0	5.81	140
	Balmacara	9 9	2	17.1	10.3	13.7	-	23.3	30	6.1	18	-	-	3.85	-	.83	23	22	14	-	0	-	-	-	0	-	-	-	-	
	Poolewe	9 9	20	15.8	10.2	13.5	-	25.6	30	3.9	11	-	-	2.94	-	.60	24	13	11	0	-	0	0	0	0	0	0	0	6.15	- S
	Inverpolly	9 9	45	16.8	9.3	13.1	-	26.7	30	2.8	11	14.3	-	2.87	-	.48	8	13	12	0	0	0	0	0	0	0	0	3	-	-
	Achnashellach	9 9	220	17.6	9.0	13.3	-0.4	26.1	30	3.3	18	-	-	4.51	78	.83	23	20	17	0	0	0	0	0	0	0	0	-	-	
	Kinlochewe	9 9	76	17.9	9.3	13.6	-	27.8	30	4.4	18	13.3	-	3.51	-	.74	16	18	15	0	0	0	0	0	0	0	0	5.15	- S	
	Blackbridge	9 9	690	17.4	8.1	12.7	-	26.1	30	5.5	15,21,27	-	-	2.08	-	.55	23	18	13	-	-	-	-	1	0	0	0	4.29	-	
	Fortrose	9 9	15	16.7	10.8	13.7	-0.5	24.4	30	7.8	11	-	-	2.29	84	.58	23	18	15	-	0	-	-	1	0	-	-	4.73	104	
Inverness	Tarbatness	21-9	60	16.5	10.0	13.3	-	27.0	28	6.5	18	-	-	1.19	-	.37	23	12	7	0	0	0	0	0	0	2	0	0	-	-
	Benbecula	21-9	19	15.5	10.0	12.7	-0.9	21.5	29	4.1	11	-	-	2.47	68	.47	21	18	12	0	0	0	0	0	0	0	2	0	6.83	-
	Isle of Rhum	9 9	15	17.4	9.4	13.4	-	23.3	30	3.9	11	15.4	12.5	5.78	-	1.15	16	16	13	0	0	0	0	0	0	0	0	5	0	-
	Prabost	9 9	220	16.3	9.1	12.7	-	23.9	30	5.6	11	-	-	3.38	-	.91	16	21	16	0	0	0	0	0	0	0	1	0	6.43	-
	Duntulm	9 9	294	15.3	9.6	12.5	-0.4	22.8	30	5.6	13	-	-	2.74	72	.51	23	19	14	0	0	0	0	0	0	0	0	0	6.63	154 S
	Onich	9 9	48	17.1	9.5	13.3	-0.5	23.9	31	4.4	18	-	-	4.49	76	1.27	23	18	15	0	0	0	0	0	0	0	1	0	5.02	141 S
	Fort William	9 9	27	17.6	9.9	13.7	-	24.4	31	6.1	29	14.4	13.3	3.09	-	.93	23	19	13	0	0	0	0	0	0	0	0	0	4.50	-
	Fort Augustus	9 9	70	16.9	9.8	13.3	-1.0	26.1	30	3.9	18	-	-	2.63	-	.64	23	17	15	0	0	0	0	0	0	0	0	0	4.35	- S
	Cannich	9 9	350	17.7	7.4	12.5	-	25.6	31	0.6	18	-	-	2.57	77	.73	23	19	12	0	0	0	0	0	0	0	4	0	-	-
	Inverness	9 9	13	17.8	10.6	14.2	-	26.7	30	7.8	14	-	-	1.62	-	.53	23	16	10	0	0	0	0	0	0	0	0	0	5.10	-
	Achnagoichan	9 9	1000	16.4	7.4	11.9	-	23.9	30	2.8	18	11.7	-	2.96	-	.94	23	20	14	-	-	-	-	0	-	0	-	-	-	
	Glenmore Lodge	9 9	1120	16.2	6.4	11.3	-	24.5	30	1.5	18	-	-	2.89	-	.59	23	16	10	0	0	1	1	0	0	0	2	0	5.39	- S
1 SCOTLAND, E.																														
Nairn	Nairn	9 9	20	17.4	8.7	13.1	-1.3	27.2	30	3.9	18	-	-	1.99	72	.60	23	19	11	0	0	0	0	0	0	0	1	0	5.34	113
Moray	Grantown-on-Spey	9 9	720																											
	Forres	9 9	155	17.4	9.2	13.3	-	26.7	30	3.9	18	14.6	12.1	1.86	65	.54	23	15	11	0	0	0	0	0	0	0	1	0	4.71	98
	Kinloss	21-9	15	17.3	9.5	13.4	-	27.1	30	4.4	18	13.3	-	1.58	-	.54	23	15	10	0	0	0	0	0	0	0	0	0	5.29	-
	Elgin	9 9	92	17.6	9.8	13.7	-	27.8	30	5.6	13,14,18	-	-	1.79	-	.50	23	14	11	0	0	0	0	0	0	0	0	0	5.85	-
	Lossiemouth	9 9	21	17.0	9.2	13.1	-1.2	27.2	30	4.4	18	-	-	1.53	-	.49	23	15	10	0	0	0	0	0	0	0	0	0	-	-
	Gordon Castle	9 9	104	18.0	9.4	13.7	-0.9	28.9	30	5.5	20	-	-	1.71	56	.43	23	13	9	0	0	0	0	0	0	0	0	0	4.58	99
Banff	Banff	9 9	80	16.6	9.9	13.3	-	24.4	30	6.7	14	-	-	1.45	-	.34	23	15	9	0	0	0	0	0	0	0	0	0	5.24	-
Aberdeen	Braemar	9 9	1113	16.1	7.7	11.9	-1.2	23.3	30	3.3	18	-	-	1.90	64	.39	4	13	12	-	0	-	-	0	0	0	-	0	4.98	- S
	Balmoral	9 9	927	16.0	6.9	11.5	-1.7	23.3	30	1.7	18	-	-	2.14	71	.67	4	20	12	0	0	0	0	0	0	0	0	0	-	-
	Dinnet	9 9	580	16.9	8.2	12.5	-	23.9	30	3.9	18	13.2	-	2.39	-	.57	4	19	11	0	0	0	0	0	0	0	0	0	-	-
	Huntly	9 9	405	16.9	8.8	12.9	-	25.5	30	4.6	14,16	-	-	1.78	-	.28	17	15	11	0	0	0	0	0	0	0	0	0	-	-
	Fyvie Castle	9 9	218	16.9	8.8	12.9	-	23.9	30	4.4	14,16	-	-	1.80	-	.50	17	19	13	0	0	0	0	0	0	0	0	0	5.58	-
	C																													



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS										EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE	
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall	Percentage of Average	Most in a day			Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average			
			A Max.	B Min.		Maximum	Date	Minimum	Date			Amount	Date	0.1 in. (0.2 mm.) or more	0.1 in. (0.2 mm.) or more															
			Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%		
1 SCOTLAND, E.—cont.																														
Midlothian																														
Balerno	9 9	700	17.4	8.1	12.7	-	23.9	30	5.0	24	-	-	1.76	-	.48	11	14	10	0	0	0	0	6	0	-	0	4.88	96		
Turnhouse	21-9	114	17.3	9.2	13.3	-1.5	26.1	30	5.0	21	-	-	1.27	44	.46	2	14	10	0	0	1	0	1	0	0	0	5.13	-		
Edinburgh—E. Craigs	9 9	200	17.2	9.6	13.4	-	25.6	30	6.1	14	-	-	1.30	-	.48	2	14	10	0	0	0	0	0	0	0	0	4.68	-		
Davidson's Mains	9 9	200	17.4	9.9	13.7	-1.8	26.7	30	6.7	25	14.1	-	1.61	-	.46	2	15	10	0	0	1	0	4	0	0	0	4.82	- S		
Penicuik	9 9	620	17.2	8.6	12.9	-	25.6	30	4.4	12	14.1	-	2.19	-	.58	2	18	11	0	0	0	0	1	4	0	0	4.96	-		
Bush House	9 9	605	16.7	8.9	12.8	-	24.4	30	6.1	11,14,27	13.7	11.7	2.39	-	.62	12	17	11	0	0	0	0	5	0	0	0	5.36	-		
Edinburgh—Blackford Hill	9 9	441	17.3	10.4	13.9	-1.0	25.6	30	7.2	25	-	-	1.28	42	.37	2	11	9	0	0	0	0	3	0	0	0	4.98	95		
Liberton	9 9	200																												
Royal Bot. Gdns.	9 9	74	17.2	10.1	13.7	-1.5	25.6	30	6.7	14	14.2	-	1.20	-	.48	2	11	8	0	0	0	0	2	0	0	0	5.20	96		
E. Lothian																														
Haddington	9 9	162	18.0	9.8	13.9	-	25.6	30	5.0	27	-	-	1.21	-	.41	11	11	6	0	0	0	0	2	0	0	0	5.49	-		
North Berwick	9 9	152	16.9	10.0	13.5	-1.3	26.1	30	6.7	15,27	-	-	1.54	57	.44	2	15	9	0	0	0	0	2	0	-	0	5.30	98		
Dunbar	9 9	75	16.9	10.5	13.7	-0.9	26.1	30	7.8	17,25	-	-	1.16	-	.44	2	15	8	0	0	0	0	0	0	0	0	6.10	106		
Berwick																														
Mertoun	9 9	225	18.3	8.6	13.5	-	25.6	30	3.3	14,27	-	-	1.72	-	.52	11	17	9	-	-	-	-	-	2	-	-	4.95	-		
Lauder	9 9	600	17.5	8.1	12.8	-	24.4	30	2.2	14	-	-	1.54	-	.48	11	15	10	0	0	0	0	1	0	1	0	5.25	-		
Marchmont	9 9	498	17.1	9.2	13.1	-1.4	25.6	30	5.6	17,25	-	-	2.22	76	.52	12	18	12	0	0	0	0	3	0	-	0	4.88	98 S		
St. Abb's Head	9 9	245	15.6	9.9	12.7	-	23.6	21	7.1	14	-	-	1.48	-	.39	13	14	10	0	0	0	0	5	0	0	0	-	-		
Peebles																														
Stanhope Farm	9 9	741	17.0	8.5	12.7	-	23.3	30	3.9	27	-	-	1.88	-	.43	11	17	13	0	0	0	0	0	0	0	0	-	-		
Blyth Bridge	9 9	830	16.3	8.6	12.5	-	23.3	30	5.6	12,25,27	-	-	1.31	-	.19	4,23	14	10	0	0	0	0	1	0	0	0	4.86	-		
West Linton	9 9	800	17.0	7.3	12.1	-	23.9	31	2.8	27	13.3	11.4	1.63	-	.28	23	20	10	0	0	0	0	1	0	0	0	-	-		
Glenfret	9 9	580	17.9	8.6	13.3	-	25.0	30	3.3	27	-	-	1.12	-	.26	11	13	11	0	0	0	0	0	0	0	0	-	-		
Selkirk	9 9	600	17.7	8.2	12.9	-	24.4	30,31	3.9	14,27	-	-	1.24	-	.21	1	14	10	0	0	1	0	3	3	0	-	-	-		
Roxburgh																														
Wauchope	9 9	560	17.9	8.4	13.1	-	25.6	30	3.9	27,28	-	-	1.99	-	.60	8	16	13	-	0	-	-	-	0	0	-	-	-		
Sourhope	9 9	900	17.4	9.0	13.2	-	26.7	30	4.4	25	-	-	1.04	-	.30	12	14	7	-	0	-	-	-	0	0	-	4.36	-		
6a SCOTLAND, W.																														
Argyll																														
Tiree	21-9	29	15.6	10.3	12.9	-0.8	13.8	2	6.7	18	-	-	2.42	71	.54	23	17	11	0	0	0	0	1	0	0	0	7.16	137		
Rhuvaal	21-9	65	15.8	10.5	13.1	-	21.9	31	7.3	12	-	-	2.29	-	1.04	23	14	13	0	0	0	0	0	0	0	0	-	-		
Colonsay	9 9	87	16.9	9.6	13.3	-0.5	22.8	31	4.4	12	-	-	2.54	65	1.03	23	17	10	0	0	0	0	1	0	0	-	-	-		
Tobermory	9 9	270	16.9	9.6	13.3	-	22.8	30,31	5.0	17	-	-	4.36	-	.98	23	16	16	-	-	-	-	-	-	-	-	-	-		
Campbeltown	9 9	10	16.4	10.2	13.3	-	21.7	30	6.7	11,18	-	-	2.23	-	.44	23	15	9	-	0	-	-	-	1	0	-	6.44	-		
Achaglachgach	9 9	40	17.3	9.0	13.1	-	22.8	31	3.3	18	-	-	3.51	-	.83	23	21	18	0	0	0	0	2	0	0	0	-	-		
Oban	9 9	229	16.7	9.6	13.2	-	23.9	30,31	6.7	12,18,25	-	-	3.51	82	1.15	23	18	15	0	0	0	0	1	0	0	0	-	-		
Lephimore	9 9	30	18.1	9.7	13.9	-	23.3	31	5.6	18	-	-	3.21	-	.67	23	20	18	0	0	0	0	1	1	0	0	5.32	-		
Glenbranter	9 9	120	17.5	8.9	13.2	-1.0	23.9	30,31	3.9	18	-	-	4.56	74	1.01	6	19	15	-	0	-	-	-	0	0	-	-	-		
Benmore																														
Forestry Sch.	9 9	46	17.6	8.9	13.3	-1.1	23.9	31	4.4	21	14.1	12.6	5.13	80	1.26	23	21	18	0	0	0	0	1	0	0	0	-	-		
Younger Bot. Gdns.	9 9	40	17.3	9.7	13.5	-	23.9	30,31	6.1	18,21	-	-	5.11	-	1.19	23	20	18	0	0	0	0	1	1	0	0	0	-	-	
Bute																														
Rothsay	9 9	150	16.9	10.6	13.7	-0.7	23.9	31	7.8	25,26	14.4	12.6	4.60	108	.77	23	18	15	0	0	0	0	3	0	0	0	5.62	112		
Millport	9 9	16	16.1	11.1	13.6	-	23.3	1	7.2	28	-	-	3.98	107	.64	29	22	14	0	0	0	0	0	0	0	-	-	-		
Dunbarton																														
Helensburgh	9 9	293	17.4	9.6	13.5	-1.2	23.9	30	6.1	18,25	-	-	3.10	74	.74	23	20	15	0	0	0	0	0	0	0	-	-	-		
Cumbernauld	9 9	310	17.8	9.0	13.4	-	26.1	30	5.6	25,26	-	-	2.72	-	.72	23	19	17	0	0	0	0	0	2	0	0	-	-		
Stirling																														
Earls Hill	9 9	1100	14.7	7.9	11.3	-	22.0	30	5.0	13,17,26	-	-	3.95	-	1.00	23	21	17	-	-	-	-	7	0	0	-	4.95	-		
Stirling	9 9	151	17.9	10.4	14.1	-1.3	26.1	30	7.2	25	15.9	11.8	2.37	75	.84	23	18	10	0	0	0	0	0	0	0	0	5.28	-		
Falkirk	9 9	100	17.8	9.6	13.7	-1.7	26.1	30	6.1	22	-	-	1.97	-	.45	23														



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of		Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n											Daily Mean	Percentage of Average			
			A Max.	B Min.		Maximum	Date	Minimum	Date	1 ft.	4 ft.					Amount	Date	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.			Air Frost	Grass min. below 0° C.	Gale
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%		
2 ENGLAND, N.E.—cont.																														
Northumbria	Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Corbridge	9 9	160	18.8	8.8	13.8	-	25.6	30	2.8	14	-	1.64	-	.31	10	14	10	0	0	0	0	2	2	0	0	0	0	0	0
Durham	Berwick-on-Tweed	9 9	76	15.8	9.9	12.9	-1.6	22.2	21	6.7	11,25	-	1.05	43	.19	11	18	8	0	0	0	0	0	4	0	0	0	5.22	96	
	Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Cockle Park	9 9	326	16.8	8.9	12.9	-1.6	22.8	23	4.4	19	13.5	1.90	66	.27	14	17	12	0	0	0	0	2	4	0	0	0	3.90	74	
	Acklington	21-9	138	16.8	8.9	12.9	-	21.6	23	4.1	29	-	1.38	-	.21	1	14	11	0	0	0	0	1	2	0	0	0	4.83	-	
	Tynemouth	21-9	95	15.9	10.7	13.3	-1.8	23.2	23	7.7	14	-	1.01	34	.20	25	17	9	0	0	0	0	1	4	0	0	0	5.28	-	
	Chopwellwood	9 9	446	18.3	9.2	13.7	-1.3	25.6	30	4.4	14	-	1.73	57	.29	10	16	12	0	0	0	0	0	0	0	0	0	-	-	
	Ushaw College	9 9	594	18.2	9.2	13.7	-1.3	25.6	30	5.6	14	-	1.40	48	.38	4	13	9	0	0	0	0	2	10	0	0	0	5.05	98	
	Houghall	9 9	123	18.8	8.8	13.8	-1.4	25.6	30	2.2	14	-	1.42	49	.49	4	15	8	0	0	0	0	1	0	0	0	0	4.84	94	
	Durham	9 9	336	18.6	9.8	14.2	-1.1	25.0	30	5.0	14	14.5	1.30	47	.33	4	15	9	0	0	0	0	-	-	0	0	0	4.70	-	
	Gateshead	9 9	509	17.8	10.2	14.0	-	25.0	30,31	7.8	14,26,27	-	1.46	-	.44	4	14	9	0	0	0	0	-	3	0	0	0	4.70	-	
	Middleton St. George	21-9	115	19.3	9.7	14.5	-	26.2	30	5.6	27	-	1.26	-	.26	15	15	8	0	0	0	0	3	1	0	0	0	5.50	-	
Yorkshire	West Hartlepool	9 9	30	17.9	10.4	14.1	-	23.9	21	6.7	14	-	1.59	-	.61	15	15	11	0	0	0	0	2	2	0	0	0	4.42	-	
	Dishforth	21-9	105	20.2	9.9	15.1	-	27.1	30	5.1	14	-	1.83	74	.78	2	17	8	0	0	0	0	5	0	0	0	0	6.07	-	
	Thirsk	9 9	111	13.8	14.2	17.0	-	26.1	30	4.4	14	-	.98	-	.44	2	13	9	0	0	0	0	3	0	0	0	0	-	-	
	York	9 9	57	20.0	10.8	15.4	-1.2	26.7	30	7.8	13,14,26	15.8	1.01	41	.17	15	16	9	0	0	0	0	3	0	0	0	0	6.13	109	
	Ampleforth	9 9	313	18.6	9.2	13.9	-1.6	24.4	30	6.1	13,21,27	-	2.58	88	1.18	6	15	12	-	-	-	-	-	0	0	0	0	-	-	
	Redcar	9 9	25	18.4	10.6	14.5	-	25.0	23,30	6.7	14	-	1.02	41	.23	4	19	10	0	0	0	0	0	0	0	0	0	5.72	-	
	Whitby	9 9	135	17.7	10.1	13.9	-	23.9	23	5.6	14	-	1.13	45	.33	3	15	8	0	0	0	0	0	2	0	0	0	5.31	97	
	Scarborough	9 9	118	17.4	10.9	14.1	-1.9	23.3	23	8.3	13,14,26	15.2	1.01	41	.19	10	13	11	0	0	0	0	0	5	0	0	0	5.82	101	
	Silpho Moor	9 9	665	17.3	8.8	13.1	-	23.3	23	6.1	14,29	13.3	1.39	-	.63	11	17	9	0	0	0	0	0	4	0	0	0	6.12	-	
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Yorkshire	Whitby C/Guard	21-9	200	16.8	10.0	13.4	-	23.3	23	5.5	14	-	1.06	-	.35	23	14	9	0	0	0	0	2	5	0	0	0	-	-	
	High Mowthorpe	9 9	574	17.9	9.1	13.5	-	23.3	22	5.6	26,27	14.8	1.11	38	.24	4	13	13	0	0	0	0	0	0	0	0	0	6.07	107	
	Hull	9 9	8	19.3	10.6	15.0	-1.8	26.1	23	6.7	27	15.5	1.80	75	.47	1	13	10	0	0	0	0	0	0	0	0	0	6.44	-	
	Leconfield	21-9	24	19.0	9.6	14.3	-	25.0	23	4.6	28	-	1.89	-	.56	4	12	12	0	0	0	0	5	1	0	0	0	5.96	-	
	Filey	9 9	122	16.6	9.7	13.1	-	21.7	23	5.6	14	-	1.20	-	.35	10	13	7	0	0	0	0	1	1	0	0	0	5.96	-	
	Bridlington	9 9	157	16.8	9.6	13.2	-	21.7	22	5.6	26	-	1.31	-	.32	10	13	7	0	0	0	0	1	1	0	0	0	6.41	-	
	Spurn Head	21-9	29	17.5	11.9	14.7	-1.5	24.0	15	9.0	22	-	1.01	-	.43	6	7	6	0	0	0	0	2	1	0	0	0	6.34	135	
	Gainsborough	9 9	110	20.2	10.1	15.1	-	26.1	23	5.6	26	-	2.21	-	.40	10	11	11	0	0	0	0	0	0	0	0	0	-	-	
	Navenby	9 9	60	20.4	9.3	14.9	-	27.2	30	3.9	28,29	-	1.79	-	.90	6	13	10	0	0	0	0	0	0	0	0	0	-	-	
	Waddington	21-9	224	19.6	10.4	15.0	-1.3	25.6	23,30	6.4	27	-	3.36	-	1.53	6	13	12	0	0	0	0	5	0	0	0	0	6.50	-	
Lincoln	Lincoln	9 9	22	20.6	9.5	15.1	-	26.7	23,30	4.4	11,27	16.2	2.61	-	.62	6	15	11	0	0	0	0	3	0	0	0	0	6.43	-	
	Cranwell	9 9	205	20.0	10.0	15.0	-1.3	26.5	22	5.9	27	16.3	1.20	48	.43	6	11	8	0	0	0	0	1	0	0	0	0	6.42	107.5	
	Cleethorpes	9 9	23	18.6	11.2	14.9	-1.4	25.6	24	7.8	21,27	-	1.94	86	.62	6	10	7	0	0	0	0	2	0	0	0	0	7.10	115	
	Manby	21-9	55	19.4	9.9	14.7	-	25.3	22	5.0	27	-	1.86	-	.48	6	12	7	0	0	0	0	4	0	0	0	0	6.90	-	
	Skegness	9 9	15	18.5	11.9	15.2	-1.0	24.4	24	6.7	11	-	1.84	83	.52	1	9	6	0	0	0	0	1	1	0	0	0	6.58	109	
3 ENGLAND, E.																														
Norfolk	Terrington	9 9	13	20.0	10.0	15.0	-	26.7	30	4.4	28	15.4	3.04	142	.73	3	10	8	0	0	0	0	4	0	0	0	0	6.88	-	
	St. Clement	21-9	76	20.2	10.4	15.3	-	26.2	30	5.9	26	-	1.85	-	.50	6	11	7	0	0	0	0	6	0	0	0	0	-	-	
	Marham	9 9	80	20.7	7.2	14.0	-	26.7	30	-1.1	21	15.7	2.00	-	.81	6	12	9	0	0	0	0	-	0	1	5	-	-	-	
	Santon Downham	21-9	250	19.4	10.0	14.7	-	25.2	23	3.9	27	-	1.93	-	.55	6	13	10	0	0	0	0	3	0	0	0	0	7.12	-	
	West Raynham	9 9	178	18.4	11.5	15.0	-1.4	25.0	23	8.9	14	-	2.91	110	.76	2	13	8	0	0	0	0	-	0	0	0	0	7.78	124	
	Cromer	9 9	93	19.9	9.9	14.9	-1.7	25.6	23	2.8	27	15.6	1.67	65	1.06	6	9	5	0	0	0	0	2	0	0	0	0	6.55	107.5	
	Sproston	9 9	89	19.3	10.9	15.1	-	24.4	23	6.1	27	-	3.05	122	1.21	6	9	6	0	0	0	0	3	0	0	0	0	7.23	-	
	Burlingham	21-9	12	18.0	12.6	15.3	-1.0	22.1	24	8.0	27	15.5	1.92	83	1.65	6	6	4	0	0	0	0	1	0	0	0	0	7.35	139	
	Gorleston	9 9	15	20.7	10.8	15.7	-	27.2	30	4.6	28	-	1.61	67	.94	6	11	7	0	0	0	0	4	0	0	0	0	6.59	107	
	Mildenhall	21-9	15	20.7	10.8	15.7	-	27.2	30	4.6	28	-	1.61	67	.94	6	11	7	0	0	0	0	4	0	0	0	0	6.59	107	
Suffolk	East Bergholt	9 9	14	20.6	10.0	15.3	-	26.1	22	3.3	27	-	2.58	-	1.07	2	13	8												



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				Means of		Mean Temperature of Air & Soil	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost			Grass min below 0° C	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date		-0.01 in. (0.2mm) or more	-0.01 in. (0.2mm) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				Max.	Min.			°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.		in.	%	in.	in.								in.	in.					in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n	Snow or Sleet	Number of days						Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				A	B		Maximum	Date	Minimum	Date		1 ft.	4 ft.		Amount	Date			Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +			Grass min below 0° C	Gale																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				°C.	°C.		°C.	°C.	°C.	°C.		°C.	°C.		in.	%			in.													hr	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
5	ENGLAND, S.E.—cont.	G.M.T.	ft.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										</



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE		
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost t	Grass min below 0° C	Gale	Daily Mean	Percentage of Average		
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.																Amount	Date
				Max.	Min.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%
7a ENGLAND, N.W.—cont.																														
Westmorland	Great Dun Fell	21-9	2780	12.0	6.2	9.1	-	20.0	30	3.0	12	-	-	-	-	-	-	-	-	-	-	-	-	-	17	0	-	3.83	-	
—cont.	Moor House	9 9	1825	14.7	6.6	10.7	-	22.2	30	1.1	14	11.2	-	3.83	-	.70	2	21	16	-	-	-	-	-	2	0	4	-	-	
Lancashire	Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Squires Gate	21-9	33	18.8	10.8	14.8	-	26.2	30	4.0	27	-	-	1.50	52	.31	5	13	9	0	0	0	4	0	0	0	0	6.37	107	
	Urswick	9 9	130	19.2	10.1	14.7	-	27.2	30	5.6	14	-	-	1.68	-	.31	17	17	11	0	0	0	3	1	0	0	-	-	-	
	Southport	9 9	16	18.4	10.2	14.3	-	26.7	30	4.4	27	16.2	11.9	1.16	-	.27	14	11	7	-	-	-	-	0	0	0	-	6.33	-	
	Poulton-le-Fylde	9 9	38	18.7	10.9	14.8	-	26.7	30	6.1	27	-	-	1.75	-	.40	17	15	10	0	0	1	0	3	0	0	-	-	-	
	Grizedale	9 9	300	18.3	7.7	13.0	-	25.6	30	2.2	14	14.4	-	3.49	-	.69	14	18	16	0	0	0	1	1	0	3	0	-	-	
	Speke	21-9	80	19.4	11.8	15.6	-	27.2	30	9.0	27	-	-	.99	34	.20	2	15	11	0	0	0	5	1	0	0	-	5.65	-	
	Kirkham	9 9	78	18.9	10.3	14.6	-	26.7	30	4.4	27	-	-	1.87	55	.57	14	11	9	0	0	1	0	3	0	0	-	5.91	-	
	Garstang	9 9	68	18.4	10.8	14.6	-	25.6	30	5.6	27	-	-	1.54	-	.29	2	14	8	-	-	-	-	0	0	0	-	5.90	-	
	Morecambe	9 9	24	18.7	11.9	15.3	-0.7	26.1	30	8.3	27	-	-	2.20	68	.58	5	18	12	0	0	0	0	0	0	-	5.97	105		
	Preston	9 9	108	18.9	10.8	14.9	-	26.7	30	6.1	14	-	-	2.15	60	.65	15	17	8	0	0	0	5	0	0	0	-	-	-	
	Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stonyhurst	9 9	377	18.7	10.3	14.5	-0.7	26.7	30	6.1	14, 27	-	-	1.85	46	.50	15	14	10	-	0	-	-	-	0	0	-	5.21	103	
	Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	5.52	-		
	Helmshore	9 9	854	17.6	9.9	13.7	-	25.0	30	6.7	13, 14	13.6	-	-	-	1.22	6	-	-	-	-	-	-	0	0	0	-	5.36	-	
	Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Burnley	9 9	655	-	9.4	-	-	-	-	5.6	11, 14	13.6	11.6	1.79	-	.67	1	12	10	0	0	0	0	1	0	0	0	4.91	-	
	Nelson	9 9	540	18.2	9.8	14.0	-	26.7	30	5.6	14	14.7	11.7	2.59	71	.74	1	17	13	-	0	-	-	-	0	0	-	5.22	-	
	Rochdale	9 9	362	18.8	9.8	14.3	-	26.1	30	4.4	14	-	-	1.94	-	.50	5	19	11	0	0	0	0	4	0	0	-	5.32	-	
Cheshire	West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bidston Obs'y. §	9 9	198	18.7	11.8	15.3	-0.4	26.7	30	8.9	14	-	-	.64	23	.10	2, 19	12	9	-	-	-	-	1	0	0	-	6.41	112	
	Winnington	9 9	65	19.7	11.8	15.7	-	27.2	30	6.1	13	-	-	1.42	52	.50	6	17	11	0	0	0	5	0	0	0	-	-	-	
	Knutsford	9 9	212	19.7	10.4	15.1	-	27.2	30	6.1	13	16.4	14.3	1.73	-	.36	6	16	12	-	-	-	-	-	0	0	-	-	-	
	Ringway §	21-9	248	19.2	11.2	15.2	-0.7	26.9	30	6.6	13	-	-	2.29	74	1.30	6	14	9	0	0	0	5	0	0	0	-	5.70	111	
	Macclesfield	9 9	500	19.0	11.0	15.0	-0.7	27.2	30	7.8	13	-	-	2.34	64	.82	6	19	3	0	0	0	13	0	0	-	-	-	-	
7b NORTH WALES																														
Flint	Rhyl	9 9	31	18.9	11.3	15.1	-0.7	27.2	30	6.1	27	-	-	.81	39	.30	3	14	6	0	0	0	0	2	0	0	0	5.87	102	
	Prestatyn	9 9	12	-	-	-	-	-	-	-	-	-	-	.56	24	.13	19	16	5	0	0	0	0	3	0	-	-	0	5.37	99
	Hawarden Bridge	9 9	17	19.9	10.4	15.1	-1.2	26.7	30	5.0	27	-	-	.90	36	.26	12	12	8	0	0	0	0	0	0	0	-	-	-	
Anglesey	Valley	21-9	26	17.4	11.0	14.2	-0.9	23.7	30	7.2	13	-	-	.81	32	.13	23	14	9	0	0	0	2	0	0	0	-	5.84	97	
Denbigh	Alwen	9 9	1100	16.8	6.7	11.7	-	24.4	30	1.1	11, 27	-	-	2.14	-	.60	6	17	10	-	-	-	-	-	0	3	-	-	-	
	Ruthin	9 9	248	18.8	9.1	13.9	-	25.6	30	0.6	12	-	-	.89	-	.13	6	13	9	-	-	-	-	0	0	-	-	-	-	
	Loggerheads	9 9	690	17.9	8.7	13.3	-	25.6	30	3.9	13, 27	14.4	12.8	1.32	-	.20	17	19	11	0	0	0	2	1	0	0	-	-	-	
	Bwlchwyn	9 9	1267	16.4	8.4	12.4	-	23.3	30	4.4	6	12.3	-	1.34	-	.23	14	18	11	0	0	0	1	1	0	2	-	-	-	
	Wrexham	9 9	275	19.6	10.0	14.8	-	26.7	30	4.1	14	14.7	12.9	1.22	-	.56	6	12	8	0	0	0	2	0	0	2	-	-	-	
Caernarvon	Bardsey Island	21-9	60	16.4	11.7	14.1	-	22.4	30	10.3	13	-	-	.97	-	.20	14	11	8	-	-	-	-	2	0	0	-	-	-	
	Botwnnog	9 9	112	18.1	10.8	14.5	-	24.4	30	7.8	13	16.3	13.8	1.01	-	.22	17	14	6	0	0	0	0	2	0	-	5.72	-		
	Bryn Adda	9 9	275	18.2	10.8	14.5	-	25.0	30	6.7	13	-	-	2.45	-	.48	2	19	15	0	0	0	1	0	0	0	-	4.86	-	
	Cwm Dyli	9 9	324	17.9	10.6	14.3	-	25.6	30	6.1	13	14.7	-	6.90	-	1.96	14	21	18	-	-	-	-	1	0	-	-	-	-	
	Aber	9 9	60	18.3	11.2	14.7	-0.9	23.9	31	7.2	13	-	-	1.59	52	.26	4	18	12	0	0	0	2	0	0	0	-	4.97	91	
	Llandudno §	9 9	13	18.1	11.8	14.9	-1.0	24.4	30, 31	7.2	13	-	-	.92	44	.14	3	16	11	0	0	0	0	1	0	-	5.73	98		
Merioneth	Llyn Stwlan	9 9	1656	13.9	8.8	11.3	-	20.6	30, 31	5.6	13	-	-	7.59	-	2.63	17	20	16	-	-	-	-	-	0	-	-	-	-	
	Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Blaenau Ffestiniog	9 9	750	17.9	10.6	14.7	-	24.4	30, 31	7.8	13, 26	-	-	4.92	-	1.54	17	19	16	0	0	0	0	5	0	-	3.81	-	S	
	Corwen	9 9																												



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER July 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE					
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average	Most in a day		Precip'n			Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average		
			A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date		0.1 in. (0.2mm.) or more	0.1 in. (1.0mm.) or more															
			Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.		Max.	Min.	Max.	Min.	Max.											Min.	Max.
8b ENGLAND, S.W.—cont.																																
Somerset	Long Ashton	9 9	162	20.0	11.5	15.7	-0.7	27.2	30	7.2	27	16.9	-	1.48	47	.30	6	16	11	0	0	0	0	0	0	0	0	0	0	0	6.06	100
—cont.	Wincanton	9 9	375	19.6	10.6	15.1	-	26.7	30	6.1	26	-	-	2.29	-	.94	2	15	10	0	0	0	0	0	0	0	0	0	0	-	-	
	Bath City Boys' School	9 9	388	19.3	11.2	15.3	-	26.7	30	4.4	27	-	-	1.63	-	.52	6	11	8	0	0	0	0	0	0	0	0	0	0	4.89	-	
	Bath	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Dorset	Lyme Regis	9 9	200	18.6	11.2	14.9	-	25.0	22	7.2	27	-	-	1.70	-	.46	2	12	8	0	0	0	0	0	2	0	0	0	5.14	- 5		
	Portland Bill	21-9	35	17.2	12.6	14.9	-0.8	23.2	22	10.8	26	-	-	1.21	64	.34	6	9	7	0	0	0	0	1	0	-	-	-	-	-		
	Weymouth	9 9	16	19.3	12.7	16.0	-0.8	25.6	22	9.4	26	-	-	1.44	67	.51	6	9	8	-	-	-	-	1	0	-	-	7.38	106			
	Winfrith	9 9	85	19.0	10.7	14.9	-	26.1	30	5.0	27	-	-	1.46	-	.37	6	8	7	-	-	-	-	0	0	-	-	-	-	-		
	Shaftesbury	9 9	680	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Swanage	9 9	37	18.7	12.3	15.5	-	25.0	22	8.3	27,30	-	15.2	1.61	-	.80	6	8	7	0	-	0	0	0	0	0	0	0	7.94	110		
	Poole	9 9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Devon	Clawton	9 9	412	18.9	9.6	14.3	-	26.7	30	3.9	26	-	-	4.18	-	1.08	3	18	15	0	0	0	0	1	0	0	-	0	-	-		
	Hartland Point	21-9	298	16.9	12.5	14.7	-	25.0	30	10.2	2	-	-	3.81	-	.96	2	16	13	0	0	0	0	1	3	0	0	2	6.17	99		
	Mount Batten	21-9	87	18.1	11.7	14.9	-1.1	24.6	30	7.5	27	-	-	1.71	66	.30	4	12	11	0	0	0	0	0	2	0	0	0	6.25	98		
	Plymouth, The Hoe	9 9	119	18.6	12.2	15.4	-0.9	24.4	30	8.3	27	16.2	14.3	1.88	73	.39	4	14	11	0	0	0	0	0	2	0	0	0	5.97	94		
	Tavistock	9 9	457	18.7	10.7	14.7	-1.0	26.7	30	6.1	26	-	13.2	4.04	-	.94	14	17	13	0	-	0	0	0	0	0	5	0	-	-		
	Chivenor	21-9	20	19.5	11.9	15.7	-	27.5	30	7.6	26	-	-	3.40	-	.83	4	16	12	0	0	0	0	3	0	0	0	6.11	-			
	Ilfracombe	9 9	25	17.8	13.2	15.5	-0.8	25.0	30	11.7	1, 14, 27	17.2	15.2	2.81	94	.69	15	16	12	0	0	0	0	0	0	0	0	6.42	101			
	Totnes	9 9	120	19.3	9.9	14.6	-	25.0	22	4.4	27	16.6	13.7	2.77	92	.76	14	14	12	0	0	0	0	0	0	0	0	5.90	-			
	Slapton	9 9	104	18.4	11.4	14.9	-	23.9	22	7.8	26	-	-	-	-	-	-	-	-	-	-	-	0	2	0	0	0	-	-			
	Newton Abbot	9 9	272	19.2	10.7	14.9	-1.3	23.9	22	6.7	27	-	-	2.69	103	.62	14	14	11	0	0	0	0	0	0	0	0	5.73	96			
	Paignton	9 9	8	19.3	11.6	15.5	-	23.9	23	8.3	27	-	-	1.85	78	.39	5	14	12	0	0	0	0	0	0	0	-	6.50	100			
	Torquay	9 9	26	19.2	12.2	15.7	-0.9	24.4	22	8.9	7, 26, 27	-	15.3	1.99	93	.36	14	15	9	0	0	0	0	0	0	0	0	6.42	94			
	Teignmouth	9 9	20	19.1	12.1	15.6	-1.3	24.4	22	8.3	27	-	-	1.78	82	.28	14	14	11	0	-	0	0	0	0	0	0	7.00	105			
	Starcross	9 9	29	-	11.1	-	-	-	-	6.7	27	16.4	-	1.61	60	.26	5	12	8	0	0	0	0	0	0	0	0	6.07	-			
	Exeter, Southam	9 9	160	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Exmouth	9 9	195	18.3	11.6	14.9	-1.1	23.9	22	7.2	28	-	-	1.44	61	.27	5	13	9	0	0	0	0	1	0	-	0	6.08	95			
	Exeter	21-9	106	19.6	11.0	15.3	-	24.8	30	6.3	27	-	-	1.24	50	.31	5	13	9	0	0	0	0	1	0	0	0	5.71	-			
	Sidmouth	9 9	25	17.9	11.4	14.7	-1.4	23.3	22	7.8	9, 28	-	-	1.46	-	.35	2	11	8	-	-	-	-	0	0	0	-	6.41	104			
Cornwall	St. Mary's, Scilly	21-9	158	17.6	12.3	14.9	-1.1	22.2	30	10.3	3	-	-	2.46	111	.54	3	15	11	0	0	0	0	1	5	0	-	6.15	92			
	Penzance	9 9	62	18.3	11.6	14.9	-1.5	22.8	22	8.9	17, 27	-	-	2.32	85	.48	14	12	9	0	0	0	0	0	0	0	0	6.74	102			
	Gulval	9 9	50	18.3	11.7	15.0	-1.2	23.9	22	8.9	17	-	-	2.47	94	.49	14	14	10	0	-	-	-	0	0	0	-	6.37	97			
	Culdrose	9 9	268	17.0	10.9	13.9	-	22.2	22	8.3	9	-	-	3.58	-	1.14	3	11	9	0	0	0	0	1	2	0	0	6.07	-			
	Rosewarne	9 9	250	17.6	11.4	14.5	-	25.0	30	8.3	26, 28	16.1	14.4	3.56	140	.88	2	15	11	0	0	0	0	1	2	0	0	6.38	-			
	Lizard	9 9	240	17.0	11.5	14.3	-	22.4	22	9.2	25	-	-	2.55	119	.91	2	13	10	0	-	0	0	1	-	0	-	6.66	-			
	Falmouth	9 9	167	17.8	11.6	14.7	-1.6	22.2	22	8.9	27	-	-	3.71	133	1.15	3	13	11	0	0	0	0	1	0	0	0	6.01	92			
	Newquay	9 9	176	18.2	11.7	14.9	-0.9	25.6	30	7.8	26, 27	-	-	2.92	111	.95	3	15	11	0	-	0	0	0	-	0	-	6.35	100			
	St. Mawgan	21-9	337	17.8	11.9	14.9	-	24.5	30	9.3	28	-	-	3.21	-	.70	1	15	12	0	0	0	0	2	1	0	0	6.47	-			
	St. Austell	9 9	310	18.4	11.6	15.0	-	22.8	22	8.9	17	-	-	3.07	91	.66	4	14	14	0	0	0	0	0	0	0	-	-	-	-		
	Fowey	9 9	51	18.7	12.1	15.4	-0.9	23.9	22	8.9	26	-	-	2.40	-	.62	4	13	10	0	0	0	0	0	0	0	-	-	-	-		
	Bude	9 9	50	18.4	11.1	14.7	-1.0	26.7	30	6.1	26	15.7	-	2.57	96	.75	3	17	15	-	-	-	-	-	-	-	-	5.63	95			
	Ellbridge	9 9	190	-	10.7	-	-	-	-	6.7	26	-	-	2.89	97	.54	14	15	12	0	0	0	0	0	1	0	0	0	5.57	90		
NORTHERN IRELAND																																
Londonderry	Loughmore Forest	9 9	572	16.9	8.9	12.9	-	24.4	30	2.8	18, 20	-	-	2.56	-	.50	23	21	16	0	0	0	0	1	0	0	3	0	-	-		
	Ballykelly	21-9	3	17.9	10.3	14.1	-0.5	25.8	30	4.6	13	-	-	2.03	65	.50	15	18	9	0	0	0	0	1	0	0	0	5.23	119			
	Derrynoyd Forest	9 9	292	17.6	9.2	13.4	-	24.4	30	3.9	13	-	-	3.20	-	.63	2	17	9	0	0	0	0	3	0	0	2	0	-	-		
	Somerset Forest	9 9	142	17.6	9.5	13.5	-	23.9	30	3.9	13	-	-	2.77	-	.59	5	20	14	0	0	0	0	0	1	0	0	-	-	-		
	Garvagh Forest	9 9	292	17.5	9.1	13.3	-	23.9	30	2.8	13	-	-	2.84</																		



TABLE IV—SUMMARY OF OBSERVATIONS AT FIXED HOURS

July

1963

DISTRICT, COUNTY AND PLACE			Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE			MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS										FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
												0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	210-430 yd.	430-1,000 yd.	1,000-2,100 yd.	2,100-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS July 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	NO. OF OBSERVATIONS					NUMBER OF OBSERVATIONS										FORCE (0-12)				DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
											0	1	3	6	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-8 mi.	7-12 mi.	13-24 mi.	25 mi. or over	34 or more	Beaufort Force				N	N.E.	E	S.E.	S	S.W.	W	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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		G.M.T.	ft.	mb.	mb.	°C.	°C.	mb.	%						0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-8 mi.	7-12 mi.	13-24 mi.	25 mi. or over	34 or more	Beaufort Force				N	N.E.	E	S.E.	S	S.W.	W	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS July 1963

[illegible]

H See Notes on Tables in the Introduction

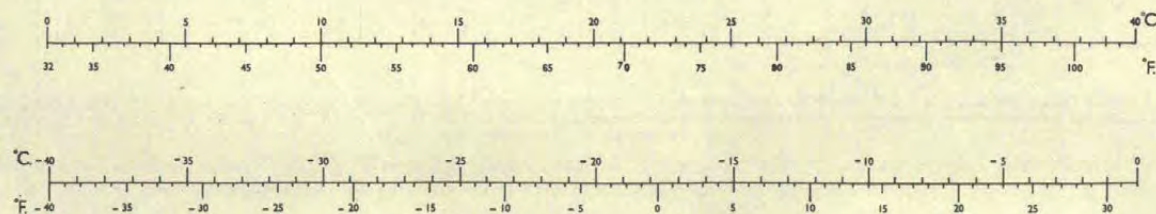




TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, July 1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	787	16	187	8	492.1	31	399	6	180	19	283.8	31	872	16	244	23	560.1	31
Eskdalemuir Observatory ...	724	20	134	14	407.8	31	386	18	131	14	255.8	31	839	20	151	14	450.5	31
Cambridge ...	744	21	194	6	468.9	31	387	5	118	20	266.3	31	-	-	-	-	-	-
Kingsway ...	747	27	113	18	458.9	31	341	9	101	18	245.6	31	848	28	123	18	502.9	31
Kew Observatory ...	704	28	134	18	450.8	31	376	1	131	18	270.8	31	810	28	161	18	524.6	31
Aberporth ...																		

TABLE VIII—NUMBER OF DAYS IN July 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C										STATION	MAXIMUM TEMPERATURE °C																					
	MINIMUM TEMPERATURE °C											MINIMUM TEMPERATURE °C																					
	0·0° or less	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	15·1° to 20·0°	20·1° to 25·0°	25·1° to 30·0°	Above 30·0°	-15·0° or less	-14·9° to -10·0°		-9·9° to -5·0°	-4·9° to 0·0°	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	Above 15·0°																
Lerwick Observatory	0	0	0	26	5	0	0	0	0	0	0	2	23	6	0	Edgbaston	0	0	0	1	19	10	1	0	0	0	0	0	9	21	1		
Stornoway	0	0	0	19	11	1	0	0	0	0	0	0	4	15	12	0	Kew Observatory	0	0	0	0	17	10	4	0	0	0	0	0	5	22	4	
Craibstone	0	0	0	12	18	1	0	0	0	0	0	0	3	17	11	0	Hastings	0	0	0	1	23	6	1	0	0	0	0	0	2	29	0	
Rothsay	0	0	0	10	16	5	0	0	0	0	0	0	0	9	22	0	Southampton	0	0	0	0	18	10	3	0	0	0	0	0	7	24	0	
Renfrew	0	0	0	4	22	5	0	0	0	0	0	0	0	16	15	0	Stonyhurst	0	0	0	4	19	7	1	0	0	0	0	0	14	17	0	
Eskdalemuir Observatory	0	0	0	6	20	5	0	0	0	0	0	0	0	4	19	8	0	Bidston	0	0	0	5	17	8	1	0	0	0	0	0	4	26	1
Douglas	0	0	0	8	21	2	0	0	0	0	0	0	0	11	20	0	Valley	0	0	0	4	22	5	0	0	0	0	0	0	8	23	0	
Cockle Park	0	0	0	11	15	5	0	0	0	0	0	0	2	19	10	0	Falmouth	0	0	0	0	30	1	0	0	0	0	0	0	3	28	0	
Gorleston	0	0	0	0	26	5	0	0	0	0	0	0	0	4	23	4	Aldergrove	0	0	0	3	23	5	0	0	0	0	0	1	10	20	0	
Cambridge	0	0	0	0	17	14	0	0	0	0	0	0	1	14	15	1	Armagh	0	0	0	0	26	5	0	0	0	0	0	2	12	17	0	

TABLE II—ADDITIONS AND CORRECTIONS

MONTH	STATION	Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Highest Velocities				
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots		4 to 10 knots		Less than 4 knots		Highest Hourly Wind			Highest Gust	
		ft.	ft.	ft.	Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Mean Hourly Wind Speed	Veer from N.	Speed	Hour ended at	Speed	Day and Time
1962						hr.		hr.	hr.	hr.	hr.	hr.	hr.	knots		knots	day hr.	knots	day h.m.
October	Paisley	188	81	31	-	0	4	9	167	446	122	0	7.7	240	28	18	11	55	30 1020
November	Calshot	50	41	33	-			49	269										
1963																			
January	Fleetwood	112	50	31	-	0	3	12	202	368	155	7	8.1	080	28	20	02	54	20 0120
March	Paisley	188	81	31	-	0	4	13	170	359	202	0	7.5	180	28	5	18	48	5 1710
April	Paisley	188	81	31	-	0	4	15	255	307	143	0	8.8	220	25	12	14	47	12 1350
May	Paisley	188	81	31	-	0	4	15	317	360	52	0	10.3	170	24	12	13	47	12 1225
May	Valley	80	53	40	-														

TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, — ADDITIONS AND CORRECTIONS

STATION & MONTH	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Eskdalemuir																		
September 1958			79	29			153	5										
October 1958							389	29										
May 1959																		
June 1959																		
May 1962	755	31															463.2	
October 1962											83.0							

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



Volume 80 Number 8

Published by HER MAJESTY'S STATIONERY OFFICE

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### August 1963 — *Cool and dull, wet in the east.*

Unsettled cyclonic weather obtained throughout the month.

The warm sunny weather at the end of July, with afternoon temperatures reaching 24°C or more over much of the country, lasted only over the first day of August. Early on the 2nd shallow disturbances moving northwards from France brought occasional rain to southern England and thunderstorms to the Channel Islands. Heavy thundery rain moved northward, more than an inch being recorded in many southern and midland districts on the 3rd and also in midland and north-eastern districts on the 4th, as a depression from France moved northwards over the North Sea. An improvement spread to southern England on the 5th (Bank Holiday Monday), when many places along the south coast recorded more than 10 hours of sunshine, but prolonged and heavy rain continued with falls exceeding 2 inches in parts of north-east England and south-east Scotland.

The next six days were changeable with troughs and ridges, associated with the passage of depressions further north, crossing the country from the west. Frontal rain reached western Scotland late on the 6th spreading to all districts the next day. Brighter weather with scattered showers in a cool north-westerly airstream followed the rain which cleared the extreme south-east of England early on the 8th. It remained rather cool on the 9th in a weak ridge, but was generally fine with more than 12 hours of sunshine in parts of southern England. A depression from the Atlantic moved rapidly across northern districts on the 10th. Rain reached western districts the previous evening, spread to the whole country during the night and persisted in parts of the north and south-east for much of the 10th, although sunnier weather and scattered showers reached many central and western districts by mid-day.

From the 11th to the 15th a complex low pressure system extended from Scandinavia to the north of the British Isles and a cool airstream from high latitudes brought showers with fair periods to most of England and Wales, but in Scotland weather was mostly cloudy with occasional rain.

On the morning of the 16th a vigorous and deepening depression moved from south-west Ireland to North Wales bringing widespread rain which became heavy and prolonged in parts of northern England and Scotland where there were falls exceeding 2 inches locally. The depression moved southwards that night and weather became showery from the west on the 17th as the depression moved along the English Channel; there were frequent thunderstorms in east and south-east England.

The 18th was a generally dry and sunny day apart from some occasional rain in some eastern districts, but frontal rain reached south-west England that night and the next two days were generally wet as a small depression moved eastward along the English Channel; there were frequent thunderstorms in south-east England on the 20th (as on the 17th) as the depression approached.

A rather cloudy day on the 21st was followed by a night of widespread rain as fronts, associated with a low pressure system to the south of Iceland, crossed the country. Occasional rain or drizzle in the north and east continued during the morning of the 22nd but gave place to scattered showers during the afternoon. The 23rd was a showery day with good sunny periods but rain reached Northern Ireland and western Scotland late that evening spreading to all districts during the night with heavy falls in places. There were good sunny periods with scattered showers on the 24th behind the trough but the 25th was a wet day,

with heavy rain at times in the west, as a deep depression approached Scotland from the Atlantic. The rain cleared most of the country the next morning and the 26th and 27th were showery days each with 10 hours of sunshine locally. There were long sunny periods also during the next two days as a ridge of high pressure moved over the country to the North Sea. On the 30th and 31st a deep depression moved slowly south-east across Ireland to northern France and rain was widespread and persistent during the last 48 hours of the month.

**Pressure and Wind** — Mean pressure was everywhere considerably below the average, the deficit at 9 hr ranging from 4.1 mb at Stornoway to 6.9 mb at Tynemouth. Surface winds were light and variable at first becoming predominantly from between west and north-west on the 6th-22nd and from between west and south-west during the remainder of the month. Wind reached gale force on 5 days in Scotland and on the 10th, 15th-18th, 23rd, 27th and 30th (11 days) in England and Wales. Gales were rather widespread in the south on the 17th; a gust of 55 kt was recorded at Jersey on that day.

**Temperature** — Mean temperature was below the 1931-60 average the deficit being 1.7°C in England and Wales and 1.3°C in Scotland and Northern Ireland. Maximum day temperatures were above average at first but below average daily almost everywhere from about the 3rd of the month.

Extremes included: (England and Wales) 26.7°C at Oaken on the 1st, -0.6°C at Moor House on the 29th; (Scotland) 26.1°C at Ardtalnaig on the 1st, -1.7°C at Balmoral on the 29th; (Northern Ireland) 22.8°C at Armagh on the 1st and at Armagh and Loughgall on the 4th, 2.8°C at Loughmore Forest and Knockmany Forest on the 15th.

**Rainfall** — The general precipitation expressed as a percentage of the 1916-50 average was 128 over England and Wales, 125 over Scotland and 99 over Northern Ireland. Rainfall was less than the average in western districts of Scotland north of the Clyde and in western counties of England from Westmorland to Hereford and Gloucester and over most of Wales except around Snowdonia and in the extreme south. It was more than twice the average in parts of eastern Scotland and in parts of Northumberland, Yorkshire, Lincolnshire, East Anglia and the Isle of Wight. At Gordon Castle and Montrose it was the wettest August since 1866 and 1877 respectively.

Thunder was heard in Scotland on 11 days and in England and Wales 20 days; thunderstorms being widespread in east and south-east England on the 17th, 20th and 27th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 75 over England and Wales, 71 over Scotland and 77 over Northern Ireland. Only in the Shetlands did sunshine totals almost reach the average; in most areas of Scotland large deficits were recorded. At Fortrose with only half the average amount of sunshine, it was the dullest August since 1910. In England and Wales totals varied from 92 per cent of the local average at Ventnor Park to 58 per cent at Sprowston.

**Fog** — Fog was observed at 9 hr at one place or another in Scotland on 15 days and in England and Wales on 20 days.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 4 nights.

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TABLE I—DISTRICT VALUES— August 1963 (1908, revised 1928, 1941 and 1956)

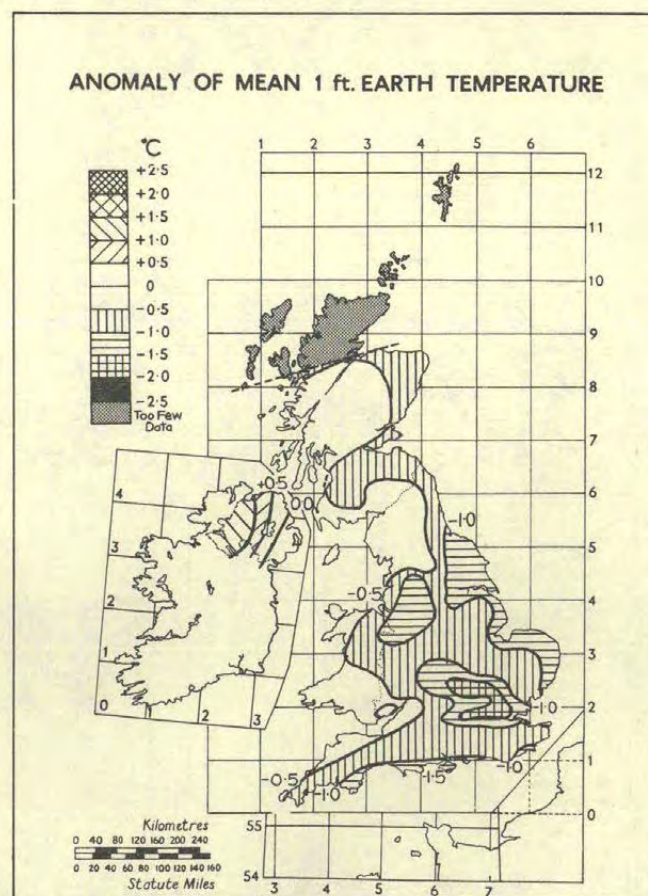
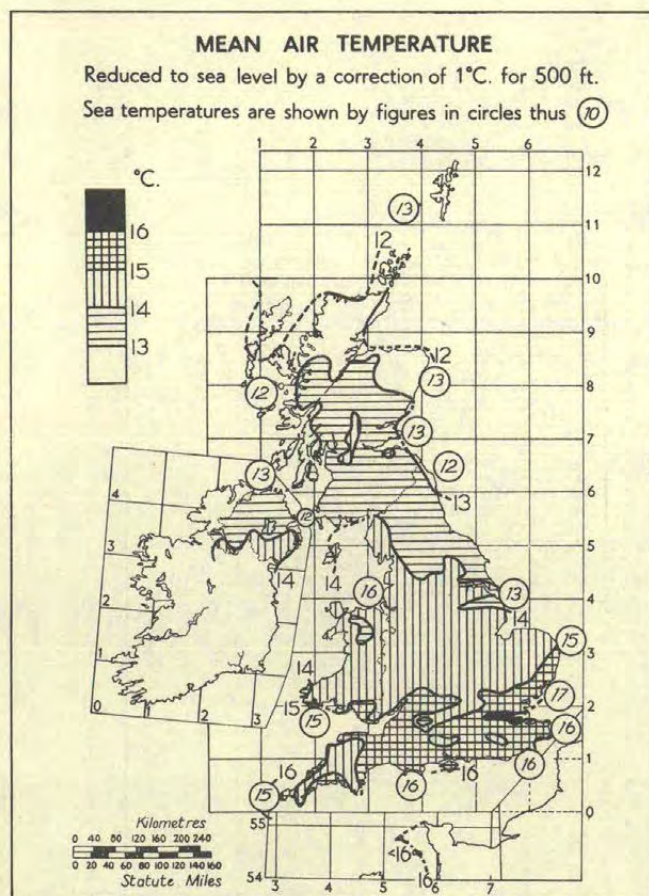
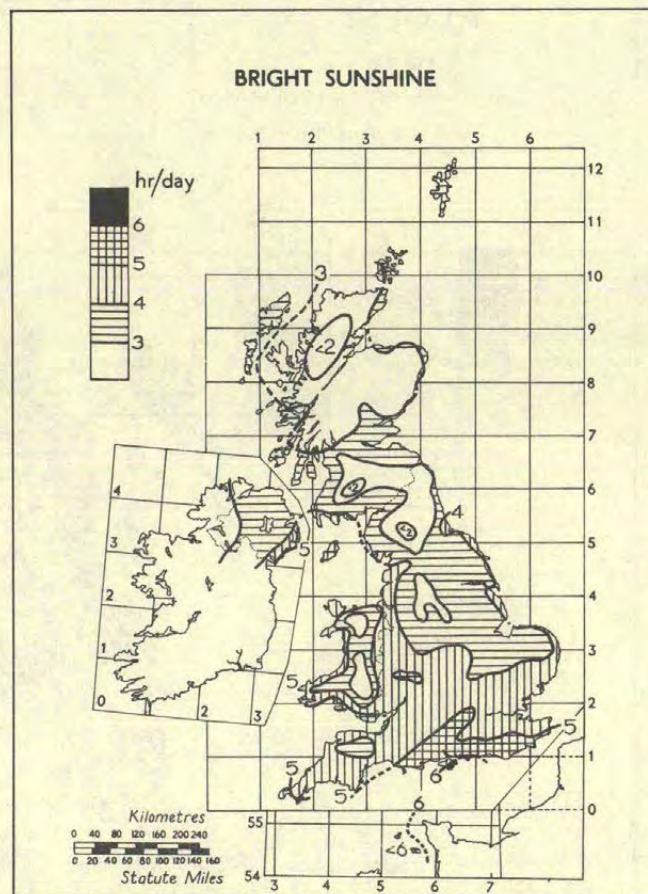
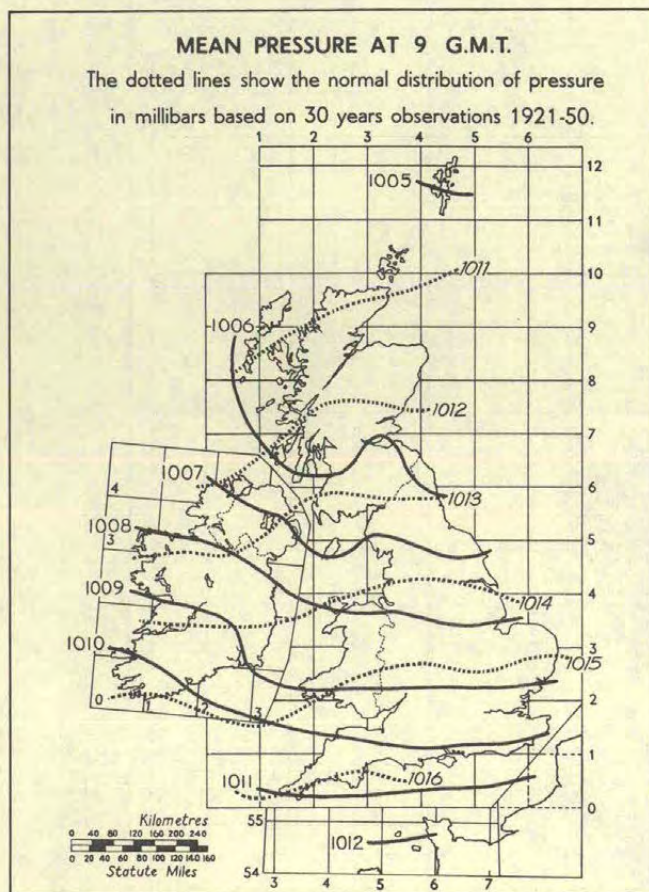
DISTRICTS	AIR TEMPERATURE						EARTH TEMPERATURE		RAINFALL		SUNSHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average		
			Max.	Min.	Mean							
0 SCOTLAND, N.	23.9	0.0	-1.3	-0.8	-1.1	—	—	124	0	76		
Eastern												
1 SCOTLAND, E.	26.1	-1.7	-2.0	-0.9	-1.5	—	—	189	+6	63		
2 ENGLAND, N.E.	25.5	0.6	-2.4	-1.3	-1.9	-1.3	-0.6	165	+7	73		
3 ENGLAND, E.	25.0	2.8	-2.1	-1.5	-1.7	-1.3	-0.5	165	+8	68		
4 MIDLAND COUNTIES	26.7	2.2	-2.5	-1.2	-1.9	-0.8	-0.3	110	+5	73		
5 ENGLAND, S.E.	26.1	3.4	-2.2	-0.8	-1.5	-1.3	-0.7	127	+6	81		
Western												
6 SCOTLAND, W.	25.0	1.1	-1.7	-0.9	-1.3	-0.3	-0.8	101	+3	74		
7 ENGLAND, N.W. (and N. Wales)	25.6	-0.6	-2.3	-0.7	-1.5	-1.2	-0.7	102	+4	77		
8 ENGLAND, S.W. (and S. Wales)	26.1	3.9	-2.1	-0.7	-1.4	-0.4	-0.1	103	+4	77		
NORTHERN IRELAND	22.8	2.8	-1.6	-0.8	-1.3	-	-	99	+2	77		

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— August 1963 (1914)

DISTRICT, COUNTY AND PLACE			Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities						
			Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust			
						Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Day and Time		
																			hr.	hr.	hr.
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	-	0	2	6	232	407	99	0	8.8	290	24	9	20	36	27	1220
	Orkney	Kirkwall	134	50	33	-	0	2	12	264	354	114	0	9.1	130	26	30	13	37	30	1200
	Caithness	Dounreay	110	39	30	-	0	3	31	266	415	0	32	10.2	150	32	30	13	46	30	1210
Ross & Cromarty	Stornoway (Coastguard)	120	40	36	-	0	8	37	263	242	202	0	9.1	190	30	6	23	42	6	2240	
	Duirinish	125	65	55	-	0	1	1	205	392	146	0	7.8	180	24	6	24	37	6	2300	
	Benbecula	69	51	35	30	3	19	174	421	121	25	0	16.1	140	36	30	04	51	30	0305	
1	Moray	Lossiemouth	101	80	60	-	0	3	12	152	323	252	0	6.7	280	25	9	06	45	30	1320
	Aberdeen	Dyce	225	40	40	-	0	1	3	163	322	256	0	6.4	290	22	9	10	35	9	1000
	Angus	Auchterhouse	822	62	50	-	0	2	7	120	325	278	14	6.1	080	25	31	09	42	31	0840
Perth	Bell Rock Lighthouse	128	131	124	-	0	11	81	275	239	149	0	11.0	120	33	30	13	43	30	1205	
	Rannoch	1006	56	57	-	0	5	13	347	240	128	16	10.0	040	26	31	23	39	31	2220	
	Fife	Leuchars	78	40	40	-	0	2	8	192	455	89	0	8.2	070	25	31	13	37	31	0735
Midlothian	Turnhouse	137	40	33	-	0	0	0	221	386	137	0	7.9	240	21	26	14	38	26	1230	
	Edinburgh, Blackford Hill	496	50	34	-	0	4	17	296	335	92	4	9.8	190	25	26	13	45	26	1220	
	Argyll	Tiree	89	60	47	-	0	14	93	366	167	118	0	12.5	150	33	30	03	49	30	0255
Bute	Millport	50	34	34	-	0	1	4	124	269	329	18	5.7	200	23	26	11	34	31	1415	
	Paisley	188	81	31	-	0	0	0	134	419	191	0	6.7	290	20	8	18	42	26	1125	
	Renfrew	71	41	33	-	0	2	5	151	461	127	0	7.2	220	26	26	12	46	26	1210	
Lanark	Lowther Hill	2412	43	33	26	1	14	75	284	225	159	0	10.9	240	35	26	10	48	26	0835	
	Ayr	Prestwick Airport	68	33	33	-	0	2	2	211	431	100	0	8.3	210	23	26	12	39	26	1135
	Dumfries	Eskdalemuir Observatory	825	50	35	-	0	2	10	90	339	305	0	5.7	230	26	26	13	44	26	1205
Wigtown	West Freugh	83	33	33	-	0	6	14	281	331	118	0	9.4	220	25	26	11	38	26	0810	
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	113	64	39	-	0	13	90	426	181	47	0	13.7	220	31	26	10	44	16	1925
	Point of Ayre	64	33	33	-	0	9	67	388	251	38	0	12.7	230	29	26	11	45	26	1025	
	Durham	Durham	389	53	33	-	0	2	3	175	316	187	63	5.0	210	24	26	14	46	26	1320
2	South Shields	73	57	44	-	0	1	2	192	309	241	0	6.9	110	22	16	18	32	24	1425	
	Lincoln	Cranwell	288	47	47	-	0	3	11	243	411	79	0	9.2	230	25	26	16	48	26	1555
	Norfolk	Gorleston	45	33	33	-	0	1	6	160	533	27	18	8.5	180	26	16	15	37	16	1510
Suffolk	Mildenhall	98	83	60	-	0	0	0	89	373	282	0	5.7	210	21	26	14	41	26	1645	
	Bedford	Cardington	226	133	133	-	0	7	29	367	320	28	0	11.4	230	28	26	16	41	26	1855
	Hertford	Garston	307	50	33	-	0	0	0	76	523	145	0	6.0	260	17	10	15	33	24	0505
Essex	Rothamsted	461	41	33	-	0	0	0	45	433	266	0	5.0	320	14	18	10	31	18	0945	
	Stansted	358	31	31	-	0	1	3	247	445	49	0	9.1	310	22	18	10	36	18	0420	
	Croyton	66	57	48	-	0	0	0	149	531	64	0	7.7	260	18	24	13	38	24	1320	
4	Yorks, W.R.	Shoeburyness	118	106	91	16, 24	5	7	65	439	218	11	6	13.4	170	36	16	15	49	16	1415
	Warwick	Sheffield	533	83	35	-	0	1	5	98	391	246	4	6.0	220	25	26	14	50	26	1050
	Edgbaston	643	118	73	-	0	0	0	68	613	63	0	6.4	270	16	24	15	32	26	1055	
Stafford	Elmdon	362	30	31	-	0	1	4	268	408	64	0	9.3	270	24	24	12	37	26	1630	
	Keele	706	50	33	-	0	0	0	88	409	247	0	5.9	190	19	16	17	39	16	1615	
	Gloucester	Avonmouth	92	61	33	-	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
5	London	Kingsway	208	143	41	-	0	0	0	201	478	65	0	8.3	250	18	24	14	37	24	1025
	Middlesex	London(Heathrow) Airport	115	33	33	-	0	1	1	218	454	71	0	8.5	230	22	26	16	33	26	1555
	Hampton	139	101	100	-	0	0	0	181	441	122	0	7.5	260	20	24	13	37	24	1810	
Surrey	Kew Observatory	92	75	50	-	0	0	0	102	451	191	0	6.4	210	19	26	16	40	24	1150	
	Gatwick	232	38	33	-	0	3	8	173	398	165	0	7.5	230	24	26	16	41	26	1530	
	Kent	Isle of Grain	48	40	33	-	0	0	0	184	306	237	17	6.9	240	21	24	13	38	24	1300
Sussex	Dover	68	38	62	-	0	2	4	271	353	116	0	9.0	180	24	16	18	43	24	1005	
	Thorney Island	75	65	42	-	0	1	5	262	329	148	0	8.5	180	25	16	12	40	16	1110	
	Hampshire	Hurn	86	53	46	-	0	2	7	285	377	75	0	9.7	180	24	16	11	39	16	1015
Calshot	S. Farnborough	50	41	33	-	0	4	19	464	261	0	0	12.4	190	26	16	11	35	17	0835	
	Abingdon	313	69	35	-	0	0	0	144	387	213	0	6.4	230	19	26	12	33	24	0830	
	Wiltshire	Larkhill	295	40	40	-	0	2	3	200	342	199	0	7.4	230	24	26	14	38	26	1320
Berkshire	Boscombe Down	491	51	36	-	0	0	0	181	411	152	0	7.3	270	21	24	12	38	24	1135	
	Porton	425	55	55	-	0	0	0	178	332	234	0	6.9	260	20	26	14	36	26	1125	
	Cumberland	Carlisle	406	44	44	-	0	1	1	210	343	190	0	7.7	220	22	26	16	35	25	1850
Westmorland	Sellafield	137	42	30	-	0	1	9	189	303	243	0	6.9	210	26	26	11	46	26	1035	
	Spadeadam	83	39	35	-	0	5	16	299	353	73	3	9.9	220	27	26	12	37	26	1145	
	Lancashire	Moor House	959	51	40	-	0	2	16	220	422	86	0	9.1	240	32	26	13	51	26	1225
Fleetwood	Southport	1960	50	45	26	3	13	86	345	251	59	0	12.8	230	36	26	08	52	26	0620	
	Fleetwood	59	41	33	-	0	7	54	306	279	105	0	10.9	270	28	26	21	47	26	1845	
	Cheshire	Speke	112	50	31	-	0	10	81	306	266	91	0	11.7	300	30	21	09	45	24	0700
Anglesey	Manchester W/Centre	84	41	33	-	0	5	25	313	342	64	0	10.4	230	28	26	17	47	26	1650	
	Bidston Observatory	268	147	55	-	0	1	4	200	436	104	0	8.0	210	23	26	15	48	26	1210	
	Cardigan	262	64	39	-	0	6	36	310	335	61	2	-	250	25	27	01	47	26	1545	
8a	Valley	261	33	33	-	0	0	0	242	405	97	0	8.4	230	20	26	11	37	24	1355	
	Glamorgan	80	53	40	-	0	9	75	387	230	52	0	12.7	210	32	26	14	43	24	0605	
	Cardigan	Aberporth	483	41	41	16	2	12	82	417	178	65	0	13.5	280	35	16	15	48	16	1530
8b	Devon	Port Talbot	91	40	35	-	0	9	45	397	249	53	0	12.0	080	26	17	03	44	17	0225
	Cornwall	Rhoose	257	37	32	-	0	10	78	379	274	13	0	13.0	260	32	26	17	47	16	1255
	St. Mary's, Scilly	191	88	65	-	0	5	24	294	309	117	0	10.1	-	30	16	07	39	1	1240	
The Lizard	Jersey Airport	230	65	57	17	6	9	90	453	132	63	0	14.2	320	38	17	05	48	17	0910	
	Jersey Airport	315	75	60	17	5	12	69	446	176	48	0	13.7	310	38	17	07	52	17	0710	
	Jersey Airport	315	75	60	17	5	12	69	446	176	48	0	13.7	310	38	17	07	52	17	0710	
NORTHERN IRELAND																					
Londonerry	Ballykelly	52	50	35	-	0	2	4	220	349	178	0	7.6	240	23	26	11	43	26	1040	
	Antrim	281	65	55	-	0	2	5	420	242	70	0	11.1	250	24	26	15	38	8	1410	
	Jersey Airport	359	86	50	17	7	10	109	468	147	13	0	15.5	280	39	17	09	55	17	0900	



# MONTHLY WEATHER CHARTS AUGUST 1963





# RAINFALL AUGUST 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

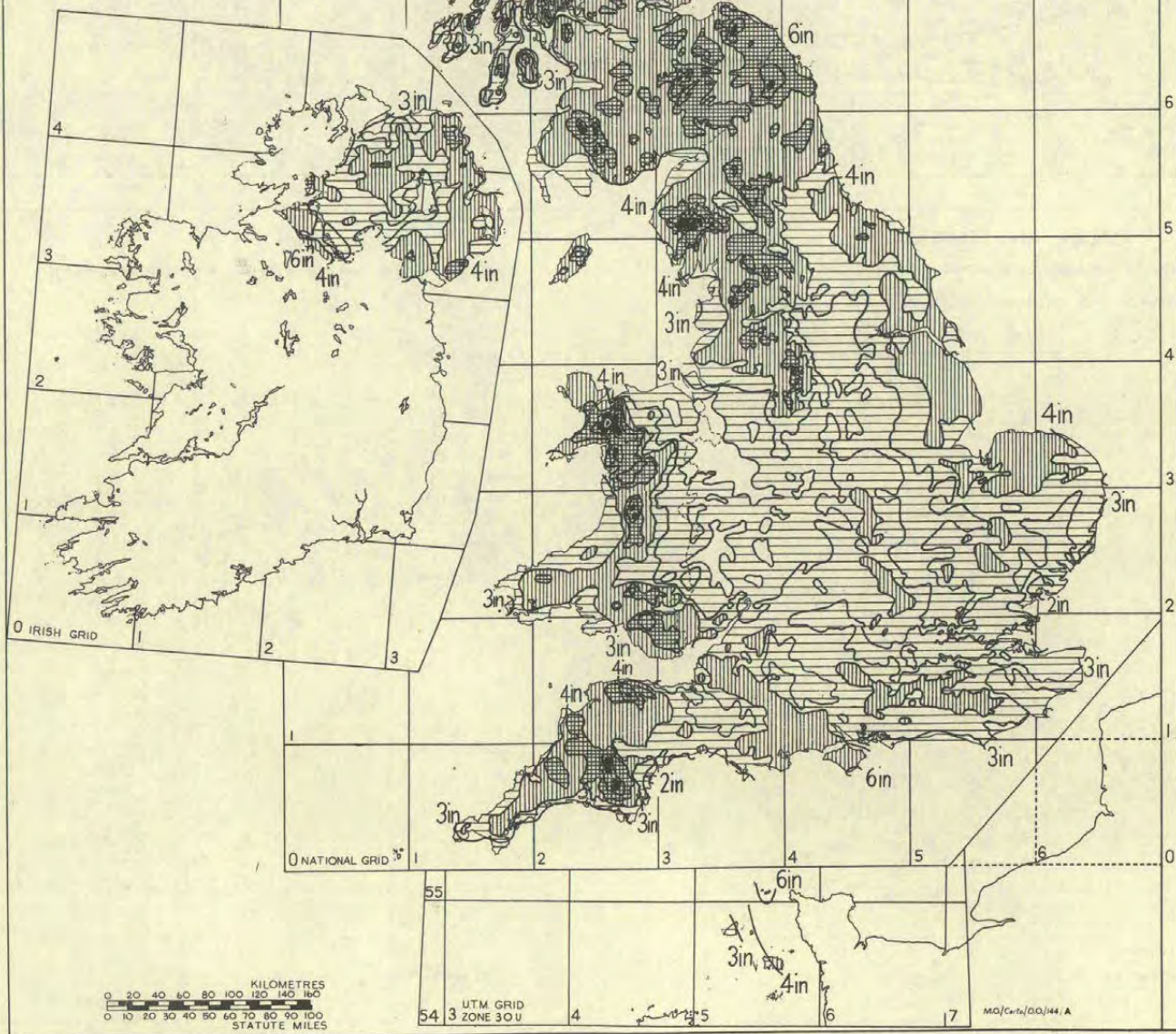
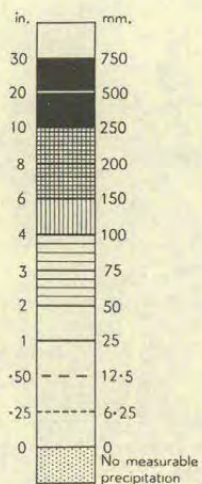




TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE			
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum			1 ft.	4 ft.	Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C	Gale	Daily Mean	Per-centage of Average		
			A	B			Maximum	Date	Minimum					Date	Amount	Date	-0.1in. (0.2mm.) or more												-0.04in. (1.0mm.) or more	
			Max.	Min.			°C.	°C.	°C.					°C.	°C.	°C.	in.												%	in.
0 SCOTLAND, N.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.		°C.		°C.	°C.	in.	%	in.												hr	%		
Zetland																														
Hamnavoe	9 9	70	15.2	10.0	12.6	-	20.6	1	5.6	14, 17	-	-	1.44	-	.26	25	16	14	0	0	0	0	1	1	0	0	0	4.34	-	
Lerwick Obs'y.	21-9	269	14.3	9.5	11.9	-0.2	19.6	2	5.1	15	-	-	1.73	63	.28	15	16	12	0	0	0	0	1	3	0	0	0	3.69	97	
Baltsound	9 9	78	14.6	9.6	12.1	-	21.1	1	3.9	15	11.2	-	2.89	100	.54	15	18	14	0	0	0	0	1	0	0	0	0	3.45	-	
Orkney																														
Sule Skerry	9 9	43	13.4	10.2	11.8	-	17.8	1	7.5	14	-	-	3.72	-	1.00	5	18	15	0	0	0	0	0	1	0	0	0	-	-	
Stenness	9 9	75	14.9	9.3	12.1	-	21.1	1	2.8	14	12.2	-	3.71	-	.60	15	22	14	0	0	0	0	1	0	0	1	1	2.89	-	
Costa	9 9	115	14.3	9.6	11.9	-	20.0	1	6.1	14	-	-	4.04	-	.59	15	22	18	0	0	0	0	1	3	0	0	1	3.06	-	
Kirkwall	21-9	84	14.2	9.4	11.8	-	19.5	1	4.6	14	-	-	4.24	148	.71	15	21	15	0	0	0	0	0	2	0	0	0	3.19	77	
Caithness																														
Dounreay	9 9	70	14.7	9.1	11.9	-	22.2	1	3.9	14	-	-	4.66	-	1.03	19	19	15	0	0	0	0	0	1	0	0	1	-	-	
Wick	21-9	119	13.9	9.2	11.5	-1.2	17.9	7	3.5	14	-	-	5.33	203	1.00	4	20	12	0	0	0	0	0	0	0	2	0	3.30	71	
Sutherland																														
Cape Wrath	21-9	367	12.9	9.6	11.3	-1.4	17.5	1	7.0	15, 16	-	-	4.06	101	.73	19	16	15	0	0	0	0	0	0	6	0	0	-	-	
Achany	9 9	280																												
Strathay	9 9	120	14.9	8.7	11.8	-1.1	23.9	1	3.3	14	-	-	4.73	133	.82	19	18	17	0	0	0	0	0	0	0	0	0	2.45	63	
Ross & Cromarty																														
Stornoway	21-9	11	14.5	9.0	11.7	-1.6	17.7	1	2.6	14	-	-	2.37	71	.46	25	16	12	0	0	0	0	0	0	0	0	0	3.51	84	
Balmacara	9 9	2	16.2	10.3	13.3	-	21.1	1	6.7	17	-	-	4.21	-	.65	5, 7	19	13	0	0	0	0	0	0	0	0	0	-	-	
Poolewe	9 9	20	15.2	9.7	12.5	-	20.0	3	4.4	17	-	-	4.67	-	1.23	5	19	17	0	0	0	0	0	3	0	0	0	2.76	- S	
Inverpoll	9 9	45	14.9	8.9	11.9	-	18.3	3, 4	3.3	17	13.6	-	4.57	-	.81	5	19	17	0	0	0	0	0	0	0	0	1	0	-	
Achnashellach	9 9	220	15.8	8.7	12.3	-1.2	22.8	1	4.4	30	-	-	4.39	67	.62	7	25	19	0	0	0	0	0	0	0	0	0	-	-	
Kinlochewe	9 9	76	15.9	9.3	12.6	-	22.2	3	3.3	17	13.6	-	4.97	-	.84	5	21	18	0	0	0	0	0	1	0	0	0	1.62	- S	
Blackbridge	9 9	690																												
Fortrose	9 9	15	15.0	10.9	12.9	-1.3	17.8	7	7.8	28, 29	-	-	5.56	216	.89	20	23	18	0	0	0	0	0	1	0	0	0	2.15	50	
Inverness																														
Tarbatness	21-9	60	14.6	9.4	12.0	-	19.0	7	5.0	28	-	-	5.84	-	1.21	5	19	14	0	0	0	0	0	0	0	0	0	-	-	
Benbecula	21-9	19	14.4	10.0	12.2	-1.5	17.0	31	6.2	14	-	-	3.05	80	.57	6	16	14	0	0	0	0	0	0	0	1	2	3.10	-	
Isle of Rhum	9 9	15	15.7	9.3	12.5	-	21.1	1	5.0	14, 18, 28	15.1	13.2	7.21	-	1.42	6	14	13	0	0	0	0	0	0	0	0	3	2	-	
Prabost	9 9	220	14.6	9.0	11.8	-	18.9	1, 4	4.4	14, 18	-	-	3.99	-	.61	20	21	14	0	0	0	0	0	0	0	0	3	0	2.60	-
Duntulm	9 9	294	13.8	9.3	11.5	-1.7	17.2	1, 4	6.1	14	-	-	3.17	72	.52	20	20	16	0	0	0	0	0	1	0	0	0	2.73	65	
Onich	9 9	48	15.8	9.6	12.7	-1.2	22.2	1	5.6	15	-	-	4.49	68	.81	6	21	16	0	0	0	0	0	1	0	1	0	2.91	78 S	
Fort William	9 9	27	16.3	10.3	13.3	-	22.8	1	5.0	29	14.7	14.2	2.92	-	.40	7	19	14	0	0	0	0	0	0	0	0	0	2.51	-	
Fort Augustus	9 9	70	15.8	10.1	12.9	-1.3	20.6	3	3.9	29	-	-	2.63	-	.56	5	21	15	0	0	0	0	0	0	0	0	0	2.79	-	
Cannich	9 9	350	16.2	8.2	12.2	-	23.9	1	0.0	29	-	-	3.89	111	.66	5	25	19	0	0	0	0	1	0	0	3	0	-	-	
Inverness	9 9	13	16.2	9.9	13.1	-	21.1	1	5.0	29	-	-	4.84	-	.60	12	22	17	0	0	0	0	0	0	0	0	0	2.37	-	
Achnagoichan	9 9	1000	15.1	7.4	11.3	-	24.4	1	2.8	19, 20	11.9	-	6.56	-	1.04	31	25	23	-	-	-	-	0	0	0	0	-	-	-	
Glenmore Lodge	9 9	1120																												
1 SCOTLAND, E.																														
Nairn	9 9	20	15.8	8.9	12.3	-1.8	24.4	6	1.7	29	-	-	5.96	215	1.20	5	27	20	0	0	0	0	0	0	0	1	0	2.34	54	
Moray																														
Grantown-on-Spey	9 9	720																												
Forres	9 9	155	15.5	9.3	12.4	-	20.6	1, 7	3.9	28	14.6	13.2	6.53	241	1.14	5	25	19	0	0	0	0	0	0	0	0	0	2.53	-	
Kinloss	21-9	15	15.5	9.5	12.5	-	21.0	7	4.0	29	13.7	-	6.20	-	1.18	19	24	16	0	0	0	0	0	0	0	0	0	2.55	-	
Elgin	9 9	92	15.9	9.7	12.8	-	21.1	1, 7	4.4	29	-	-	7.04	-	1.38	5	22	18	0	0	0	0	0	0	0	0	0	3.02	-	
Lossiemouth	9 9	21	15.2	9.2	12.2	-1.7	21.1	7	2.8	29	-	-	6.84	-	1.43	5	19	15	0	0	0	0	0	0	0	0	0	-	-	
Gordon Castle	9 9	104	15.9	9.3	12.6	-1.7	22.2	3	5.0	5, 29	-	-	7.45	240	1.74	4	22	18	0	0	0	0	0	0	0	0	0	2.60	57	
Banff																														
Banff	9 9	80	15.0	10.0	12.5	-	20.0	3	4.4	29	-	-	8.42	-	1.87	4	21	14	0	0	0	0	1	0	0	0	0	2.67	-	
Aberdeen																														



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE	
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day		Precip'n		Snow or Sleet	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min below 0° C	Gale	Daily Mean	Percentage of Average		
				A Max.	B Min.		Maximum	Date	Minimum			Date	Amount	Date	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more													
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%	
1 SCOTLAND, E.—cont.																													
Midlothian	Balerno ...	9 9	700	15.6	8.7	12.1	-	21.7	1	2.2	29	-	-	6.13	-	1.81	15	17	14	0	0	0	1	6	0	0	3.39	76	
	Turnhouse ...	21-9	114	16.6	9.6	13.1	-1.2	21.6	1	2.1	29	-	-	4.27	138	.74	16	21	13	0	0	0	1	0	0	0	3.41	-	
	Edinburgh—E. Craigs	9 9	200	16.3	9.8	13.1	-	21.7	1	3.3	29	-	-	4.46	-	.92	16	19	15	0	0	0	1	0	0	1	3.42	-	
	Davidson's Mains	9 9	200	16.6	13.1	13.3	-1.2	22.8	1	5.0	28, 29	14.6	-	4.29	-	.87	4	21	14	0	0	0	1	0	0	0	3.55	- 5	
	Penicuik ...	9 9	620	15.0	8.8	12.4	-	22.2	1	2.8	29	14.4	-	5.44	-	1.84	16	20	17	0	0	0	1	2	0	0	3.43	-	
	Bush House ...	9 9	605	15.3	9.2	12.3	-	20.6	1	2.2	29	14.2	13.1	6.14	-	1.93	16	19	17	0	0	0	0	0	0	0	3.36	-	
	Edinburgh—																												
	Blackford Hill §§	9 9	441	16.4	10.2	13.3	-1.2	22.2	1	5.0	29	-	-	5.13	163	1.44	16	22	15	0	0	0	1	0	0	0	3.51	76	
	Liberton ...	9 9	200																										
	Royal Bot. Gdns.	9 9	74	15.4	10.1	13.3	-1.4	21.1	1	3.9	29	14.7	-	4.56	-	.88	4	21	13	0	0	0	1	0	0	0	3.51	75	
E. Lothian	Haddington ...	9 9	162	15.5	9.7	13.1	-	21.7	2	1.7	29	-	-	5.78	-	1.57	16	22	16	0	0	0	2	0	0	0	3.24	-	
	North Berwick ...	9 9	152	16.4	9.7	13.1	-1.4	20.0	1, 2	4.4	28, 29	-	-	6.87	225	1.67	4	25	22	0	0	0	0	0	0	0	3.33	71	
	Dunbar ...	9 9	75	15.7	10.4	13.1	-1.2	19.4	25	5.0	29	-	-	6.20	-	1.84	4	22	16	0	0	0	0	0	0	0	3.90	77	
	Berwick																												
	Mertoun ...	9 9	225	16.7	9.0	12.9	-	23.3	2	0.6	29	-	-	5.46	-	1.21	16	24	16	-	-	-	-	0	1	-	3.48	-	
	Lauder ...	9 9	600	15.9	7.9	11.9	-	22.8	2	0.6	29	-	-	5.62	-	1.36	16	22	18	0	0	0	0	0	0	3	3.27	-	
	Marchmont §§	9 9	498	15.6	9.1	12.3	-1.8	21.1	2, 3	3.3	29	-	-	7.18	219	2.25	16	24	15	0	0	0	0	1	0	-	3.18	69 5	
	St. Abb's Head ...	9 9	245	14.7	10.0	12.3	-	19.0	7	7.0	29	-	-	-	-	-	-	-	0	0	0	0	2	0	0	0	-	-	
Peebles	Stanhope Farm ...	9 9	741	15.3	8.8	12.1	-	22.2	1	1.7	28	-	-	6.64	-	1.67	16	24	19	0	0	0	1	0	0	1	0	-	-
	Blyth Bridge ...	9 9	830	14.9	8.8	11.9	-	21.1	1	4.4	19, 28, 29	-	-	5.69	-	1.32	16	21	20	0	0	1	1	0	0	0	2.99	-	
	West Linton ...	9 9	800	15.3	8.4	11.9	-	21.1	1, 2	2.2	29	13.6	12.6	5.73	-	1.34	16	23	20	0	0	0	1	0	0	0	-	-	
	Glenfress ...	9 9	580	16.2	8.8	12.5	-	23.3	1	2.8	29	-	-	5.42	-	1.17	16	17	14	0	0	0	1	0	0	-	-	-	
Selkirk	Bowhill ...	9 9	600	16.1	8.4	12.3	-	23.3	1, 2	1.1	29	-	-	6.35	-	1.82	16	20	13	0	0	0	2	0	0	-	-	-	
Roxburgh	Wauchope ...	9 9	560	15.9	8.8	12.3	-	22.8	1, 2	1.1	29	-	-	6.26	-	.87	2	20	18	-	-	-	2	0	-	-	-	-	
	Sourhope ...	9 9	900	15.3	8.4	11.9	-	21.7	2, 3	3.9	28, 29	-	-	9.56	-	2.38	4	23	20	-	-	-	-	0	5	-	2.62	-	
6a SCOTLAND, W.																													
Argyll	Tiree ... §§	21-9	29	14.9	9.8	12.3	-1.5	19.0	1	6.9	14	-	-	3.66	101	.86	23	16	12	0	0	0	0	0	0	1	0	3.74	71
	Rhuvaal ...	21-9	65																										
	Colonsay ...	9 9	87	15.8	8.9	12.3	-1.8	20.6	1	3.9	25	-	-	2.66	61	.55	9	21	18	0	-	0	0	0	2	0	-	-	-
	Tobermory ...	9 9	270	15.4	9.4	12.4	-	20.6	1	5.6	29	-	-	4.19	-	.62	23	17	16	-	-	-	-	-	0	-	-	-	
	Campbeltown ...	9 9	10	15.7	10.0	12.9	-	18.9	1, 5	5.6	28	-	-	3.67	-	.65	23	24	20	-	-	-	-	2	0	-	-	3.83	-
	Achaglachgach ...	9 9	40	16.6	8.2	12.4	-	22.8	1	2.8	28	-	-	3.21	-	.45	9	23	20	0	-	0	0	0	0	0	0	-	-
	Oban ...	9 9	229	15.5	9.4	12.5	-	21.7	1	7.2	15	-	-	4.09	88	.82	15	20	16	0	0	0	0	0	0	0	2.29	53	
	Lephimore ...	9 9	30	16.4	9.7	13.1	-	24.4	1	5.6	28	-	-	3.91	-	.52	29	20	17	0	0	0	0	0	0	0	2.70	-	
	Glenbranter ...	9 9	120	16.1	8.6	12.3	-1.6	24.4	1	2.8	28	-	-	7.32	102	.95	15	20	15	-	-	-	-	0	0	0	-	-	-
	Bemore ...																												
	Forestry Sch. ...	9 9	46	16.6	8.5	12.5	-1.6	23.3	1	2.2	28	14.3	13.6	5.75	80	.62	29	23	19	0	0	0	0	0	0	1	0	-	-
	Younger Bot. Gdns.	9 9	40	16.4	9.9	13.1	-	25.0	1	3.9	28	-	-	5.51	-	.69	29	22	20	0	0	0	1	0	0	1	0	-	-
Bute	Rothsay §§	9 9	150	16.0	10.3	13.1	-1.2	22.8	1	5.6	28	14.4	13.4	3.36	70	.47	5	22	17	0	0	0	0	0	0	0	3.40	74	
	Millport ...	9 9	16	16.1	11.1	13.6	-	23.3	1	7.2	28	-	-	3.98	107	.64	29	22	14	0	0	0	0	0	0	-	0	-	
Dunbarton	Helensburgh ...	9 9	293	15.4	9.6	13.0	-1.3	23.3	1	3.3	28	-	-	4.05	82	.47	5	22	18	0	0	0	0	0	0	-	0	-	
	Cumbernauld ...	9 9	310	16.9	9.2	13.1	-	23.3	1	2.2	28	-	-	5.37	-	.93	31	22	18	0	0	0	0	0	1	0	-	-	
Stirling	Earls Hill ...	9 9	1100	14.0	8.0	11.0	-	20.0	1	2.0	30	-	-	5.67	-	.72	31	24	21	-	-	-	-	3	0	0	3.05	-	
	Stirling ...	9 9	151	17.2	10.3	13.7	-1.3	23.9	1	4.4	28	16.1	13.2	4.15	120	.53	5	21	19	0	0	0	0	0	0	0	3.20	-	
	Falkirk ...	9 9	100	17.3	10.0	13.7	-1.3	22.8	1	3.9	28	-	-	3.81	-	.70	31	19	16	-	-	-	-	-	-	-	-	-	
	Renfrew																												
	Greenock ...	9 9	200	16.3	10.6	13.5	-1.3	23.9	1	6.1	28	-	-	4.72	102	.58	26	22	17	0	0	0	1	0	0	0	3.37	-	
	Paisley ...	9 9	106	17.1	10.7	13.9	-1.4	25.0	1	5.0	28	15.2	12.5	3.40	95	.45	5	20	15	0	0	0	2	0	0	0	2.84	64	
	Barrhead ...	9 9	97	16.8	9.8	13.3	-	23.9	1	2.8	28	-	-	4.27	-	.75</													



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE					
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum			Total Fall			Per-centage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st below 0° C	Gale	Daily Mean	Per-centage of Average							
			A Max.	B Min.			Maximum	Date	Minimum		Date	in.													%	in.	-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more			
			°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	°C.	°C.	in.	°C.	°C.	°C.	°C.	°C.	°C.	hr	%					
2 ENGLAND, N.E.—cont.																															
North-berland cont.	Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-					
	Corbridge	9 9	160	16.9	8.8	12.9	-	23.9	1,3,4	1.7	29	-	-	5.05	-	1.31	4	20	17	0	0	0	0	0	0	0	-				
	Berwick-on-Tweed	9 9	76	14.8	9.9	12.3	-1.9	17.8	7,8	3.3	29	-	-	6.30	233	1.47	4	27	22	0	0	0	0	0	0	0	3.00	60			
	Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Durham	Cockle Park	9 9	326	16.1	8.8	12.3	-1.8	20.6	1	5.0	29	13.5	-	7.50	249	1.81	4	26	20	0	0	0	0	0	0	0	2.37	64			
	Acklington	21-9	138	16.1	9.3	12.7	-	18.8	1	2.3	29	-	-	5.47	-	1.21	4	23	20	0	0	0	0	0	0	0	3.41	-			
	Tynemouth	21-9	95	15.6	10.8	13.2	-1.7	18.4	23	7.5	29	-	-	6.42	212	2.10	4	21	19	0	0	0	0	1	1	0	3.50	-			
	Chopwellwood	9 9	446	16.6	8.7	12.7	-2.0	22.2	2	0.6	29	-	-	5.45	178	1.62	4	20	18	0	0	0	0	0	0	1	0	-			
	Ushaw College	9 9	594	16.8	8.8	14.8	+0.2	22.2	2	4.4	29	-	-	3.05	106	1.04	4	17	14	0	0	0	0	0	2	0	-	-			
	Houghall	9 9	123	17.2	8.8	13.0	-1.8	22.2	2	2.8	29	-	-	3.67	127	1.26	4	19	15	0	0	0	0	1	0	0	4.03	87			
	Durham	9 9	336	17.2	9.2	13.2	-1.7	23.9	2	3.3	29	14.8	13.3	3.68	136	1.26	4	20	15	0	0	0	0	0	0	0	3.86	81			
	Gateshead	9 9	509	15.9	10.1	13.0	-	21.7	2	5.0	29	-	-	4.95	-	1.76	4	23	18	0	0	0	0	0	0	0	3.02	-			
Yorks., N. Riding	Middleton St. George	21-9	115	17.2	9.9	13.5	-	22.4	2	4.9	29	-	-	3.89	-	1.44	4	19	14	0	0	0	0	1	0	0	0	4.03	-		
	West Hartlepool	9 9	30	16.9	10.5	13.7	-	19.4	7,10,23	6.7	15,29	-	-	3.65	-	1.35	4	17	14	0	0	0	0	1	0	0	0	4.07	-		
	Dishforth	21-9	105	18.1	10.3	14.2	-	25.5	2	5.5	29	-	-	3.18	127	1.28	4	20	16	0	0	0	0	0	0	0	3.83	-			
	Thirsk	9 9	111	18.0	9.4	13.7	-	24.4	2	5.0	14,29	-	-	3.11	-	1.22	4	17	11	0	0	0	0	0	0	0	0	-	-		
	York	9 9	57	17.9	10.7	14.3	-1.9	23.3	1,2	7.2	17,29	15.3	14.1	2.99	116	1.08	4	21	8	0	0	0	0	0	0	0	3.53	70			
	Ampleforth	9 9	313	17.0	9.7	13.3	-1.8	22.2	2	6.1	15,29,30	-	-	3.80	124	.83	4	20	17	0	0	0	0	0	0	0	-	-			
	Redcar	9 9	25	16.8	10.8	13.8	-	19.4	7,10,23	5.6	29	-	-	4.26	165	1.74	4	17	15	0	0	0	0	1	0	0	0	3.94	-		
	Whitby	9 9	135	16.4	10.3	13.3	-	20.6	1	3.9	29	-	-	3.98	145	1.38	4	19	18	0	0	0	0	1	1	0	0	4.28	85		
Yorks., E. Riding	Scarborough	9 9	118	17.4	11.1	14.3	-1.6	20.6	7,10	8.3	29	15.3	14.4	4.27	164	1.16	4	22	14	0	0	0	0	0	0	0	0	4.17	81		
	Silpho Moor	9 9	665	16.1	8.9	12.5	-	20.0	1,2	3.3	29	13.1	-	5.92	-	1.46	17	25	17	0	0	0	0	5	1	1	4.16	-			
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Whitby C/Guard	21-9	200	15.7	10.0	12.9	-	19.5	7,10	3.7	29	-	-	3.52	-	1.30	4	20	17	0	0	0	0	2	3	0	0	-	-		
	High Mowthorpe	9 9	574	16.1	9.3	12.7	-	21.1	1,2	4.4	29	14.1	-	6.32	200	1.64	4	25	18	0	0	0	0	1	3	0	0	3.77	-		
	Hull	9 9	8	17.9	10.9	14.4	-2.1	22.2	1,2	6.1	29	15.1	13.0	5.22	202	1.25	4	21	17	0	0	0	0	0	0	0	0	3.72	71		
	Leconfield	21-9	24	17.5	10.1	13.7	-	21.6	2	4.0	29	-	-	3.50	-	1.18	4	21	15	0	0	0	0	3	0	0	0	3.59	-		
	Filey	9 9	122	16.3	9.7	13.0	-	19.4	10	5.0	29	-	-	4.44	-	1.10	4	20	14	0	0	0	0	1	0	0	0	3.99	-		
Lincoln	Bridlington	9 9	157	16.4	9.8	13.1	-	19.4	7,10	6.1	7	-	-	5.40	-	1.45	4	20	16	0	0	0	0	1	0	0	0	3.94	-		
	Spurn Head	21-9	29	16.8	11.5	14.1	-2.1	21.0	7	9.9	15,16,20	-	-	3.59	-	.80	4	18	15	0	0	0	0	1	0	0	0	4.02	73		
	Gainsborough	9 9	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
	Navenby	9 9	60	17.9	9.8	13.9	-	24.4	1	6.1	7	-	-	3.50	-	.92	4	24	16	0	0	0	0	1	0	0	0	-	-		
	Waddington	21-9	224	17.2	10.1	13.7	-2.4	22.3	1	5.1	17	-	-	3.61	-	.96	4	20	13	0	0	0	0	2	1	0	0	3.52	-		
	Lincoln	9 9	22	18.2	9.7	13.9	-	23.3	1	3.3	29	15.6	14.5	3.53	-	.78	4	20	14	0	0	0	0	0	0	0	0	3.53	-		
	Cranwell	9 9	205	17.5	9.9	13.7	-2.3	23.1	1	5.0	17	15.2	14.4	3.49	160	.99	4	19	10	0	0	0	0	0	0	0	0	3.58	64		
	Cleethorpes	9 9	23	17.8	10.9	14.3	-1.9	21.1	2,8,27	7.2	17	-	-	3.54	157	1.67	17	19	12	0	0	0	0	0	0	0	0	4.23	75		
Suffolk	Manby	21-9	55	17.6	9.9	13.7	-	21.3	2	4.8	17	-	-	4.93	-	1.05	4	21	16	0	0	0	0	1	0	0	0	3.90	-		
	Skegness	9 9	15	17.7	11.0	14.3	-1.7	21.1	7,10,11	8.3	7	-	-	5.51	257	1.96	4	21	15	0	0	0	0	1	0	0	0	4.33	76		
	3 ENGLAND, E.																														
	Norfolk	Terrington																													
		St. Clement	9 9	13	18.3	10.2	14.3	-	21.7	1	5.6	15	15.3	-	3.42	182	1.05	17	20	13	0	0	0	0	1	0	0	0	3.78	-	
		Marham	21-9	76	18.2	10.3	14.3	-	24.1	1	6.6	20	-	-	4.05	-	1.12	17	15	11	0	0	0	0	1	0	2	0	0	-	-
		Santon Downham	9 9	80	18.8	9.1	13.9	-	25.0	1	2.8	15	15.1	13.8	3.46	-	.98	17	18	17	0	0	0	0	0	0	0	0	0	-	-
		West Raynham	21-9	250	17.4	9.9	13.7	-	22.6	1	6.7	15,17	-	-	4.73	-	1.22	17	19	15	0	0	0	0	1	2	1	0	0	3.59	-
Cromer		9 9	178	17.4	10.8	14.1	-2.3	20.6	7,10	8.3	16	-	-	3.65	167	.96	4	20	15	0	0	0	0	0	0	0	0	3.99	69		
Sprowston		9 9	93	18.9	10.3	14.6	-1.8	22.8	1	6.1	17,30	15.3	-	4.65	220	1.25	28	21	15	0	0	0	0	4	0	0	0	3.34	58		
Burlingham		9 9	89	18.3	10.8	14.5	-	21.1	1,7	7.2	17,30	-	-	3.71	178	.64	4	20	17	0	0	0	0	1	0	0	0	3.40	-		
Suffolk	Gorleston	21-9	12	18.4	11.9	15.1	-1.4	21.6	5																						



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

- King Edward School



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of				Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Per-cent- age of Aver- age	
			A Max.	B Min.	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	<0.1in. (0.2mm.) or more	>0.1in. (1.0mm.) or more												
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.															hr	%	
5 ENGLAND, S.E.—cont.																														
Surrey																														
—cont.																														
Kew Observatory	21-9	18	19.2	12.2	15.7	-1.5	24.9	1	7.6	29	16.1	15.1	2.31	103	.44	4	19	13	0	0	1	0	3	0	0	0	0	4.64	76	
Gatwick	21-9	192	19.3	9.8	14.5	-	24.7	2	3.5	30	-	-	3.86	-	.71	31	20	17	0	0	1	0	2	0	0	0	0	4.88	-	
Waddon	9 9	220	19.2	11.5	15.3	-1.8	25.0	1	7.2	29	-	-	3.61	152	.52	3,27	15	14	-	-	-	-	-	-	-	-	-	-	-	
Addington	9 9	474	18.4	11.1	14.7	-1.9	23.9	1,2	8.3	19,29	-	-	3.97	157	.69	27	21	14	-	-	-	-	-	-	-	-	-	-	-	
Kent	9 9	213	18.3	11.7	15.5	-1.7	23.9	1,2	7.2	29	-	-	2.54	118	.74	17	20	13	-	0	-	-	-	-	-	-	-	-	-	
Bromley	9 9	213	18.3	11.7	15.5	-1.7	23.9	1,2	7.2	29	-	-	2.54	118	.74	17	20	13	-	0	-	-	-	-	-	-	-	-	-	
Swanley	9 9	177	19.3	10.6	14.9	-	23.3	1,2	5.0	29	16.9	-	2.17	-	.79	17	19	11	0	0	0	0	2	0	0	0	0	4.50	-	
Dartford	9 9	17	19.3	11.1	15.5	-	24.4	2	6.1	30	-	-	2.16	109	.70	17	19	11	0	0	0	0	3	0	0	-	0	-	-	
Tunbridge Wells	9 9	351	18.8	10.1	14.5	-1.9	24.4	1,2	5.6	19	17.0	16.6	4.10	169	.53	31	20	14	0	0	0	0	2	0	0	0	0	5.27	84	
Goudhurst	9 9	280	18.6	10.3	14.5	-	23.9	1	4.4	29	-	-	4.11	149	.69	20	19	15	0	0	1	0	1	1	0	0	0	-	-	
East Malling	9 9	122	19.7	10.6	15.1	-1.3	23.9	1	5.6	30	-	15.4	3.54	151	1.15	17	19	14	0	0	0	2	2	0	0	0	0	4.97	82	
Gillingham	9 9	14	20.1	12.1	16.1	-	22.8	5	6.7	30	-	-	2.26	-	.51	17	22	11	0	0	0	0	1	1	0	-	0	4.68	-	
Sittingbourne	9 9	224	19.1	10.7	14.9	-	21.7	5	6.1	30	15.8	14.7	2.56	110	.81	17	15	11	0	0	0	0	2	0	0	0	0	5.20	-	
Isle of Grain	9 9	9	19.7	12.9	16.3	-	22.8	6	10.0	17,28,30	-	-	2.19	-	.72	17	16	12	-	0	-	-	-	-	-	-	0	4.84	-	
Faversham	9 9	157	18.4	11.1	15.3	-	22.2	1,5,8	6.1	29,30	16.2	15.3	2.60	-	.60	17	18	13	0	0	0	0	1	0	0	0	0	4.72	-	
Dungeness	21-9	10	18.5	12.8	15.7	-1.0	21.9	8	7.0	29	-	-	2.98	146	.85	17	16	10	0	0	0	0	0	0	0	-	1	-	-	
Wye	9 9	185	19.1	10.8	14.9	-1.7	23.9	1,2	5.0	29	-	-	2.82	113	.62	17	19	13	0	0	0	0	1	2	0	0	0	4.43	70	
Whitstable	9 9	9	19.5	11.9	15.7	-	23.3	5	7.2	29	-	-	2.07	108	.62	17	16	10	0	0	0	0	0	0	0	-	0	5.27	-	
Folkestone	9 9	128	19.4	12.3	15.9	-	23.3	2,8	8.3	19	-	15.4	2.65	131	.58	17	19	10	0	0	0	0	1	0	0	0	0	5.25	-	
Elmstone	9 9	28	19.9	10.7	15.3	-	23.3	2	5.0	29,30	-	-	2.37	-	.64	2	19	9	-	0	-	-	-	0	0	-	-	-	-	
Herne Bay	9 9	21	20.0	12.2	16.1	-	23.9	5	8.9	7,19,29	-	-	2.51	125	.97	17	16	7	0	0	0	0	2	0	0	-	0	4.81	-	
Dover	9 9	19	18.8	12.9	15.9	-1.1	22.8	2	8.3	30	17.6	17.0	3.16	143	.71	30	19	12	0	0	1	0	2	0	0	0	0	5.14	- 5	
Dover R.M.S.*	9 9	402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Deal	21-9	18	19.0	12.9	15.9	-	21.5	5	8.0	29	-	-	3.20	-	.80	2	16	10	0	0	0	0	1	0	0	0	0	-	-	
Manston	21-9	145	19.1	11.2	15.1	-	22.0	5	7.8	17,19	-	-	2.74	-	.83	2	14	12	0	0	0	0	2	1	0	0	-	-	-	
Ramsgate	9 9	80	19.0	12.9	15.9	-	21.7	5,8	8.9	19	-	-	2.98	141	.88	2	16	8	0	0	0	0	1	0	0	-	0	4.99	77	
Margate	9 9	51	18.8	12.9	15.9	-1.8	22.2	5	10.0	19,21	16.6	15.7	2.26	118	.80	2	15	6	0	0	0	0	2	0	0	0	0	4.94	72	
Sussex	21-9	10	18.4	12.0	15.7	-	26.1	2	5.7	29	-	-	2.67	124	.68	31	15	13	0	0	0	0	2	0	0	0	0	5.66	-	
Thorney Island	9 9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Haslemere	9 9	24	18.2	12.6	15.4	-1.4	22.8	2	7.8	28,29	-	16.1	2.45	105	.36	25	17	13	0	0	0	0	1	0	0	0	1	6.10	90	
Bognor Regis	9 9	188	18.6	10.4	14.5	-	25.0	1	4.4	30	-	-	3.92	-	(.70)	31	20	15	0	0	0	0	1	0	0	0	0	5.35	-	
Fernhurst	9 9	15	18.8	11.9	15.3	-1.5	23.9	2	7.2	19,28,29	-	16.3	3.46	151	.76	31	16	14	0	0	0	0	0	0	0	-	0	5.89	86	
Littlehampton	9 9	10	18.8	11.6	15.2	-	24.4	2	6.3	28,29	-	14.8	2.85	-	.49	31	15	15	-	0	-	-	-	-	-	-	0	5.97	-	
Rustington	9 9	25	19.1	12.8	15.9	-1.3	23.3	2	7.8	28	16.7	15.6	2.37	104	.44	19	17	14	0	0	0	1	2	0	0	0	0	5.74	82	
Worthing	9 9	32	18.4	13.0	15.7	-	24.4	2	8.3	29,30	-	16.2	2.70	119	.53	19	16	13	0	0	0	0	1	0	0	0	0	5.53	82	
Brighton	9 9	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
East Grinstead	9 9	45	18.4	12.6	15.5	-	23.3	2	7.2	29	-	-	2.59	104	.43	31	16	13	-	-	-	-	-	0	0	-	-	(5.62)	82	
Seaford	9 9	23	18.1	13.0	15.5	-1.6	21.7	2	8.3	29	17.4	16.4	4.07	165	.92	17	19	13	0	0	0	0	1	0	0	0	0	5.99	84	
Eastbourne	9 9	23	18.1	13.0	15.5	-1.6	21.7	2	8.3	29	17.4	16.4	4.07	165	.92	17	19	13	0	0	0	0	1	0	0	0	0	5.99	84	
Eastbourne C/Guard	21-9	17	18.6	12.4	15.5	-	22.2	1	6.3	29	-	-	3.44	-	.69	17	19	14	0	0	0	0	1	0	0	0	0	4	-	-
Bexhill	9 9	12	18.2	12.7	15.5	-1.3	23.3	2	7.8	29	17.4	-	2.92	129	.49	31	16	12	0	0	0	0	1	0	0	0	0	5.71	85	
Bodiam	9 9	73	19.4	10.4	14.9	-	24.4	2	3.9	30	17.1	15.5	3.27	-	.42	2	18	15	-	0	-	-	-	-	-	-	0	5.15	-	
Berkshire	9 9	149	18.4	12.6	15.5	-1.3	24.4	2	8.9	19,28	17.3	16.2	2.57	114	.57	17	18	11	0	0	0	0	0	0	0	0				



\* Plant Breeding Station.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER August 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day	Precip'n			Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average	
				A Max.	B Min.		Mean of A and B	Maximum	Date	Minimum		Date	-0.1in. (0.2mm.) or more			-0.01in. (1.6mm.) or more	-0.001in. (0.025mm.) or more													
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
8b ENGLAND, S.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
Somerset Long Ashton ...		9 9	162	18.4	10.9	14.7	-1.6	25.6	1	5.6	29	16.4	-	3.55	99	.69	16	21	16	0	0	0	0	0	0	0	0	0	4.82	82
cont. Wincanton ...		9 9	375	18.3	10.5	14.4	-	24.4	1	5.6	29	-	-	3.79	-	.98	20	22	16	0	0	0	0	0	0	0	0	0	-	-
Bath City Boys' School		9 9	388	18.0	10.8	14.4	-	24.4	1	6.7	29	16.1	-	3.10	-	.66	3	19	17	0	0	0	0	0	0	0	0	0	4.38	-
Dorset Bath ...		9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Lyme Regis ...		9 9	200	18.5	11.3	14.9	-	22.8	1	7.2	15	-	-	4.11	-	1.03	31	22	13	0	0	0	0	0	0	0	0	3	4.68	- 5
Portland Bill ...		21-9	35	17.3	13.3	15.3	-1.1	19.9	3	10.7	18	-	-	2.56	134	.70	3	18	16	0	0	0	0	0	0	0	0	0	3	-
Weymouth ...		9 9	16	18.8	12.8	15.8	-1.3	22.8	2	9.4	15	-	-	3.76	172	1.11	3	17	12	-	-	-	-	-	-	-	-	0	5.51	80
Winfrith ...		9 9	85	18.7	11.2	14.9	-	22.8	1,2	5.6	29,30	-	-	3.80	-	.99	31	19	13	-	-	-	-	-	-	-	-	0	-	-
Shaftesbury ...		9 9	680	17.0	10.2	13.6	-2.0	22.2	1	6.1	29	-	-	4.92	181	.75	20	20	14	-	-	-	-	3	0	-	-	-	-	-
Swanage ...		9 9	37	18.7	12.5	15.6	-	21.1	6	7.8	15,28,29	-	16.3	4.87	-	1.83	3	19	15	0	-	0	0	3	1	0	0	3	5.73	81
Devon Poole ...		9 9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Clawton ...		9 9	412	17.4	10.3	13.9	-	24.4	1	5.0	7	-	-	6.07	-	1.50	16	27	23	0	-	0	0	0	-	0	-	0	-	-
Hartland Point ...		21-9	298	15.9	12.8	14.3	-	23.0	1	10.1	30	-	-	3.60	-	.53	15	22	19	0	0	0	0	1	0	0	0	6	4.00	64
Mount Batten ...		21-9	87	17.3	12.4	14.9	-1.3	22.0	1	8.1	7,15	-	-	3.15	109	.49	3	21	14	0	0	0	0	1	2	0	0	0	4.79	75
Plymouth, The Hoe		9 9	119	17.8	12.5	15.1	-1.5	22.2	1	8.9	7,15	16.5	15.3	4.86	169	.43	3,15	22	15	0	0	0	0	1	0	0	0	1	4.54	71
Tavistock ...		9 9	457	17.3	11.0	14.1	-1.6	21.7	1	5.6	7	-	13.7	6.36	-	.77	16	28	23	0	0	0	0	0	0	0	0	3	0	-
Chivenor ...		21-9	20	18.0	12.5	15.3	-	25.5	1	8.7	7	-	-	4.24	-	.61	3	24	17	0	0	0	0	1	0	0	0	3	4.46	-
Ilfracombe ...		9 9	25	17.2	13.6	15.4	-1.3	22.8	1	11.1	17	17.0	16.0	4.38	114	.81	15	19	15	0	0	0	0	0	0	0	0	1	4.97	81
Totnes ...		9 9	120	18.4	11.1	14.7	-	22.2	3	5.6	7	-	14.5	4.36	125	.64	15	24	18	0	0	0	0	1	0	0	1	4.42	-	
Slapton ...		9 9	104	17.7	11.3	14.5	-	21.1	3	7.8	15	-	-	3.79	-	.62	31	24	13	0	0	0	0	1	0	0	0	0	-	-
Newton Abbot ...		9 9	272	18.2	11.2	14.7	-1.6	21.1	13	7.8	7,15	-	-	3.09	105	.47	1	17	15	0	0	0	0	2	0	0	0	4.31	71	
Paignton ...		9 9	8	18.8	12.2	15.5	-	23.3	3	8.9	7	-	-	3.26	111	1.32	3	19	15	0	0	0	0	1	0	0	-	0	4.95	75
Torquay ...		9 9	26	18.8	12.5	15.7	-0.9	21.7	3	9.4	7,15,28	-	16.4	2.81	106	.62	3	16	13	0	0	0	0	1	0	0	0	0	4.86	71
Teignmouth		9 9	20	18.9	13.1	16.0	-0.9	21.1	3,10	9.4	7	-	-	1.90	77	.41	15	19	13	0	-	0	0	0	0	0	0	0	4.88	74
Starcross ...		9 9	29	19.0	11.6	15.3	-	22.2	10	6.7	7	16.4	-	2.55	95	.68	31	16	14	0	0	0	0	1	0	0	0	0	4.91	-
Exeter, Southam		9 9	160	18.6	11.7	15.1	-	23.3	1	7.2	7	-	-	3.33	-	.64	14	18	15	0	0	0	0	0	0	0	3	0	-	-
Exmouth ...		9 9	195	18.4	12.0	15.2	-0.9	21.1	3	8.9	7	-	-	2.34	88	.76	31	16	10	0	0	0	0	0	0	0	-	0	4.45	69
Cornwall Exeter ...		21-9	106	18.9	11.5	15.2	-	23.4	1	5.5	15	-	-	3.20	118	.67	31	19	13	0	0	0	0	1	1	0	0	1	4.01	-
Sidmouth ...		9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
St. Mary's, Scilly		21-9	158	17.8	12.8	15.3	-1.2	20.7	3	10.0	17	-	-	2.54	101	.38	28	23	12	0	0	0	0	1	1	0	-	2	5.34	79
Penzance ...		9 9	62	17.9	12.7	15.3	-1.3	21.1	3	9.4	15	-	-	3.24	110	.58	16	21	13	0	0	0	0	0	0	0	1	5.32	80	
Gulval ...		9 9	50	17.8	12.7	15.3	-1.1	21.1	3,5	10.6	7,10,28	-	-	3.22	115	-	-	-	-	-	-	-	-	-	-	-	0	5.13	80	
Culdrose ...		9 9	268	16.7	11.3	14.3	-	20.0	2	8.9	17,28	-	-	3.09	-	.65	16	16	14	0	0	0	0	1	3	0	0	0	5.03	-
Rosewarne ...		9 9	250	16.8	12.3	14.5	-	20.6	2	10.0	15	16.2	15.3	4.31	157	.60	16	23	17	0	0	0	0	0	2	0	0	2	4.50	-
Lizard ...		9 9	240	16.8	12.3	14.5	-	19.9	5	10.1	30	-	-	2.43	103	.39	21	21	13	0	-	0	0	0	-	0	-	0	5.66	-
Falmouth		9 9	167	17.6	12.3	14.9	-1.6	22.2	3	10.0	15,17	-	-	3.23	106	.66	16	20	14	0	0	0	0	0	0	0	0	0	4.32	67
Newquay ...		9 9	176	17.2	13.4	15.3	-0.8	22.2	1,2	10.6	17,29	-	-	3.59	134	.80	31	26	16	0	-	0	0	0	-	0	-	0	4.10	65
St. Mawgan ...		21-9	337	16.8	12.3	14.5	-	21.8	1	10.0	17	-	-	4.65	-	.76	16	25	21	0	0	1	0	0	2	0	1	4.30	-	
St. Austell ...		9 9	310	17.9	12.1	15.0	-	21.7	3	9.4	15,17	-	-	5.06	141	.93	16	25	20	0	0	0	0	1	0	-	0	-	-	-
Fowey ...		9 9	51	18.2	12.7	15.5	-1.0	22.2	3	10.0	25	-	-	2.99	-	.44	13	22	14	0	0	0	0	3	0	-	-	-	-	-
Bude ...		9 9	50	17.2	12.3	14.7	-1.2	24.4	1	6.7	7	15.4	-	3.65	129	.90	16	26	19	-	-	-	-	-	-	-	-	4.20	70	
Ellbridge ...		9 9	190	-	11.3	-	-	-	-	5.6	15	-	-	3.98	124	.53	16	22	19	0	0	0	0	0	0	0	0	0	4.15	68
NORTHERN IRELAND																														
Londonderry Loughmore Forest		9 9	572	15.3	9.3	12.3	-	20.0	4	2.8	15	-	-	3.67	-	.83	26	23	20	0	0	0	0	0	1	0	1	0	-	-
Ballykelly		21-9	3	16.4	10.7	13.5	-1.2	20.8	25	5.2	15	-	-	2.21	68	.45	26	23	16	0	0	1	0	0	0	0	0	0	3.48	75
Derrynoyd Forest		9 9	292	16.5	9.6	13.1	-	21.7	1,4	3.9	15	-	-	3.68	-	.75	23	24	17	0	0	0	0	0</						



August

[illegible]











TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS August 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS							FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
											0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	210-430 yd.	440-1,000 yd.	1,000-2,100 yd.	2,100-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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more	9	10	11	12									13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	101	102	103	104	105	106	107	108	109	110	111	112	113	114	115	116	117	118	119	120	121	122	123	124	125	126	127	128	129	130	131	132	133	134	135	136	137	138	139	140	141	142	143	144	145	146	147	148	149	150	151	152	153	154	155	156	157	158	159	160	161	162	163	164	165	166	167	168	169	170	171	172	173	174	175	176	177	178	179	180	181	182	183	184	185	186	187	188	189	190	191	192	193	194	195	196	197	198	199	200	201	202	203	204	205	206	207	208	209	210	211	212	213	214	215	216	217	218	219	220	221	222	223	224	225	226	227	228	229	230	231	232	233	234	235	236	237	238	239	240	241	242	243	244	245	246	247	248	249	250	251	252	253	254	255	256	257	258	259	260	261	262	263	264	265	266	267	268	269	270	271	272	273	274	275	276	277	278	279	280	281	282	283	284	285	286	287	288	289	290	291	292	293	294	295	296	297	298	299	300	301	302	303	304	305	306	307	308	309	310	311	312	313	314	315	316	317	318	319	320	321	322	323	324	325	326	327	328	329	330	331	332	333	334	335	336	337	338	339	340	341	342	343	344	345	346	347	348	349	350	351	352	353	354	355	356	357	358	359	360	361	362	363	364	365	366	367	368	369	370	371	372	373	374	375	376	377	378	379	380	381	382	383	384	385	386	387	388	389	390	391	392	393	394	395	396	397	398	399	400	401	402	403	404	405	406	407	408	409	410	411	412	413	414	415	416	417	418	419	420	421	422	423	424	425	426	427	428	429	430	431	432	433	434	435	436	437	438	439	440	441	442	443	444	445	446	447	448	449	450	451	452	453	454	455	456	457	458	459	460	461	462	463	464	465	466	467	468	469	470	471	472	473	474	475	476	477	478	479	480	481	482	483	484	485	486	487	488	489	490	491	492	493	494	495	496	497	498	499	500	501	502	503	504	505	506	507	508	509	510	511	512	513	514	515	516	517	518	519	520	521	522	523	524	525	526	527	528	529	530	531	532	533	534	535	536	537	538	539	540	541	542	543	544	545	546	547	548	549	550	551	552	553	554	555	556	557	558	559	560	561	562	563	564	565	566	567	568	569	570	571	572	573	574	575	576	577	578	579	580	581	582	583	584	585	586	587	588	589	590	591	592	593	594	595	596	597	598	599	600	601	602	603	604	605	606	607	608	609	610	611	612	613	614	615	616	617	618	619	620	621	622	623	624	625	626	627	628	629	630	631	632	633	634	635	636	637	638	639	640	641	642	643	644	645	646	647	648	649	650	651	652	653	654	655	656	657	658	659	660	661	662	663	664	665	666	667	668	669	670	671	672	673	674	675	676	677	678	679	680	681	682	683	684	685	686	687	688	689	690	691	692	693	694	695	696	697	698	699	700	701	702	703	704	705	706	707	708	709	710	711	712	713	714	715	716	717	718	719	720	721	722	723	724	725	726	727	728	729	730	731	732	733	734	735	736	737	738	739	740	741	742	743	744	745	746	747	748	749	750	751	752	753	754	755	756	757	758	759	760	761	762	763	764	765	766	767	768	769	770	771	772	773	774	775	776	777	778	779	780	781	782	783	784	785	786	787	788	789	790	791	792	793	794	795	796	797	798	799	800	801	802	803	804	805	806	807	808	809	810	811	812	813	814	815	816	817	818	819	820	821	822	823	824	825	826	827	828	829	830	831	832	833	834	835	836	837	838	839	840	841	842	843	844	845	846	847	848	849	850	851	852	853	854	855	856	857	858	859	860	861	862	863	864	865	866	867	868	869	870	871	872	873	874	875	876	877	878	879	880	881	882	883	884	885	886	887	888	889	890	891	892	893	894	895	896	897	898	899	900	901	902	903	904	905	906	907	908	909	910	911	912	913	914	915	916	917	918	919	920	921	922	923	924	925	926	927	928	929	930	931	932	933	934	935	936	937	938	939	940	941	942	943	944	945	946	947	948	949	950	951	952	953	954	955	956	957	958	959	960	961	962	963	964	965	966	967	968	969	970	971	972	973	974	975	976	977	978	979	980	981	982	983	984	985	986	987	988	989	990	991	992	993	994	995	996	997	998	999	1000	1001	1002	1003	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1022	1023	1024	1025	1026	1027	1028	1029	1030	1031	1032	1033	1034	1035	1036	1037	1038	1039	1040	1041	1042	1043	1044	1045	1046	1047	1048	1049	1050	1051	1052	1053	1054	1055	1056	1057	1058	1059	1060	1061	1062	1063	1064	1065	1066	1067	1068	1069	1070	1071	1072	1073	1074	1075	1076	1077	1078	1079	1080	1081	1082	1083	1084	1085	1086	1087	1088	1089	1090	1091	1092	1093	1094	1095	1096	1097	1098	1099	1100	1101	1102	1103	1104	1105	1106	1107	1108	1109	1110	1111	1112	1113	1114	1115	1116	1117	1118	1119	1120	1121	1122	1123	1124	1125	1126	1127	1128	1129	1130	1131	1132	1133	1134	1135	1136	1137	1138	1139	1140	1141	1142	1143	1144	1145	1146	1147	1148	1149	1150	1151	1152	1153	1154	1155	1156	1157	1158	1159	1160	1161	1162	1163	1164	1165	1166	1167	1168	1169	1170	1171	1172	1173	1174	1175	1176	1177	1178	1179	1180	1181	1182	1183	1184	1185	1186	1187	1188	1189	1190	1191	1192	1193	1194	1195	1196	1197	1198	1199	1200	1201	1202	1203	1204	1205	1206	1207	1208	1209	1210	1211	1212	1213	1214	1215	1216	1217	1218	1219	1220	1221	1222	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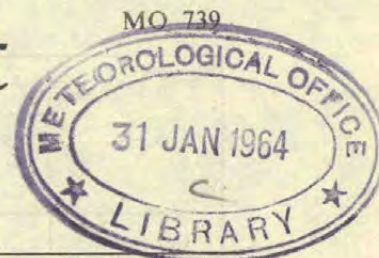




# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



Volume 80 Number 9

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### September 1963 — *A dry spell mid-month*

Generally cyclonic weather during the first eleven days of the month was broken on the 5th and 6th by a ridge moving south-east across the country. An anticyclone developed over the British Isles on the 12th and thereafter for nearly a fortnight the weather was mainly anticyclonic. Changeable weather set in during the last week of the month.

The rather cool unsettled weather experienced at the end of August continued well into September. A depression from north-west France moving across the country to north-east Scotland gave three days of cool, mainly northerly winds with scattered thunderstorms and heavy rain at times; more than an inch of rain fell locally in south-east England and the Midlands on the 1st, in eastern Scotland on the 2nd and in northern Scotland on the 3rd. Another depression from the Atlantic reached Cornwall by noon on the 4th subsequently moving eastwards along the English Channel. Rain, which had become widespread in southern England during the early morning, persisted throughout the day, and, in the south-east, for much of the night. A ridge of high pressure developed behind the depression giving two days of generally fair weather with scattered showers in a north-westerly airstream, but cloudy weather with rain reached western Scotland early on the 7th and spread steadily eastwards reaching most areas by early afternoon. The rain persisted in south-east England on the 8th but there were good sunny periods in the west and these spread to the whole country the next day. A depression in the Bay of Biscay gave dull wet weather over most of southern England on the 10th and 11th, but a developing ridge of high pressure maintained mainly dry sunny weather in the north.

Pressure rose rapidly on the 12th and a strong ridge became established over the British Isles which lasted nearly a week. It was fine and warm nearly everywhere. Many parts of the country having ten hours or more of sunshine daily with afternoon temperatures reaching 25°C. On the night of the 17th/18th a cold front with slight rain moved south-east across the country and behind it an anticyclone formed over Scotland. This anticyclone moved to Scandinavia on the 19th and pressure remained high in the region of the southern Baltic until the 23rd. Easterly winds spread over southern England and weather became cooler and more cloudy, but was mainly dry.

The weather pattern changed on the 24th as a depression near Iceland deepened rapidly and an associated trough moving eastwards across the country brought widespread and frequently heavy rain. A sunny day on the 25th in a feeble ridge behind the trough was followed by a stormy night with gales and widespread rain, frequently heavy, in north-west England and western Scotland where more than an inch fell in many places; Grizedale (Lancashire) and Langdale (Westmorland) recorded 3.0 and 3.8 inches respectively. The rain was slow to clear south-east England and northern districts on the 26th, parts of the extreme north of Scotland having over an inch of rain in 24 hours on that day.

An anticyclone to the south-west of the British Isles maintained north-westerly winds with variable cloud and scattered showers during most of the remainder of the month except for about 24 hours of rain beginning late on the 28th. The rain continued for most of the night, as an active depression moved from the north of Scotland to Denmark, clearing northern districts by noon on the 29th and the south coast during the evening.

**Pressure and Wind** — Mean pressure was above the average except in north and east Scotland the deviation ranging from -1.5 mb at Lerwick to +2.2 mb at Scilly. Surface winds were mainly northerly at first becoming between west and south-west on the 7th and light and variable over most of the country on the 10th-23rd but remaining mainly westerly in Scotland until the 15th. Winds were mainly between west and north-west from the 24th until the end of the month. Wind reached gale force on 14 days in Scotland and on the 7th, 14th, and 24th-27th in England and Wales. Gales were widespread on the 26th and severe in Scotland. At Lerwick a mean hourly wind speed of 58 kt and a maximum gust of 87 kt were recorded on the 26th, and at Kirkwall the same day the corresponding speeds were 53 and 78 kt respectively. At both stations these values were the highest ever recorded in September.

**Temperature** — Mean temperature was below the 1931-60 average, the deficit being 0.7°C in England and Wales, 0.5°C in Scotland and 0.6°C in Northern Ireland. Maximum and minimum temperatures were well below the average nearly everywhere until about the 10th. Day temperatures rose considerably above the average on 13th-17th but minimum temperatures remained lower than usual. During the last two weeks day temperatures were mainly below average except on the 20th, 24th and 26th.

Extremes included: (England and Wales) 26.1°C at Wrexham on the 15th, -1.7°C at Warsop and Moor House on the 20th and at Alwen on the 21st; (Scotland) 22.2°C at Banff on the 16th and at Gordon Castle on the 16th and 22nd, -3.3°C at Cannich on the 19th; (Northern Ireland) 22.4°C at Ballykelly on the 16th, -1.7°C at Knockmany Forest on the 18th.

**Rainfall** — The general precipitation expressed as a percentage of the 1916-50 average was 93 over England and Wales, 98 over Scotland and 83 over Northern Ireland. Rainfall amounts differed little from the average over large parts of the country but were 50 per cent below the average in parts of Ayrshire, Cornwall and Devon and 50 per cent above in the extreme south-east of Berwickshire and locally in the east Midlands and Derbyshire.

Thunder was heard in Scotland on 8 days and in England and Wales on the 1st-3rd, 5th, 6th, 17th, and 23rd-25th (9 days). Thunderstorms were widespread during the first three days of the month.

Snow or sleet occurred over high ground in Scotland on the 9th, 26th and 27th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 106 in England and Wales, 110 in Scotland and 115 in Northern Ireland. Sunshine was below the average in parts of northern Scotland and of east and south-east England but generally above elsewhere. It was the sunniest September at North Berwick and at Glasgow since records began in 1922 and 1914 respectively. At Durham and Ilkley sunshine was about 50 per cent above the average for the station.

**Fog** — Fog was observed at 9 hr at one place or another in Scotland on 14 days and in England and Wales on 22 days. It was most widespread around the 17th and 23rd and was reported at Tredegar on 16 days.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 18 nights.



TABLE I—DISTRICT VALUES— September 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average	
			Max.	Min.	Mean						
0 SCOTLAND, N.	21.1	-3.3	-0.8	-0.3	-0.6	—	—	106	0	94	
Eastern											
1 SCOTLAND, E.	22.2	-1.7	-0.3	-0.5	-0.4	—	—	105	-1	117	
2 ENGLAND, N.E.	25.6	-1.1	-0.5	-0.9	-0.7	-0.6	-0.9	79	-2	129	
3 ENGLAND, E.	25.1	0.6	-1.1	-0.9	-0.9	-0.9	-0.9	79	-1	91	
4 MIDLAND COUNTIES	25.6	-1.7	-0.7	-0.6	-0.7	-0.8	-0.7	96	-2	108	
5 ENGLAND, S.E.	25.0	1.1	-1.0	-0.3	-0.6	-0.9	-1.1	113	0	86	
Western											
6 SCOTLAND, W.	20.6	0.5	-0.7	-0.6	-0.6	-0.2	-0.8	89	-1	118	
7 ENGLAND, N.W. (and N. Wales)	26.1	-1.7	-0.8	-1.0	-0.9	-1.1	-0.7	107	0	127	
8 ENGLAND, S.W. (and S. Wales)	25.0	2.2	-0.6	-0.6	-0.5	-0.5	-0.6	77	-1	94	
NORTHERN IRELAND	22.4	-1.7	-0.5	-0.8	-0.6	-	-	83	0	115	

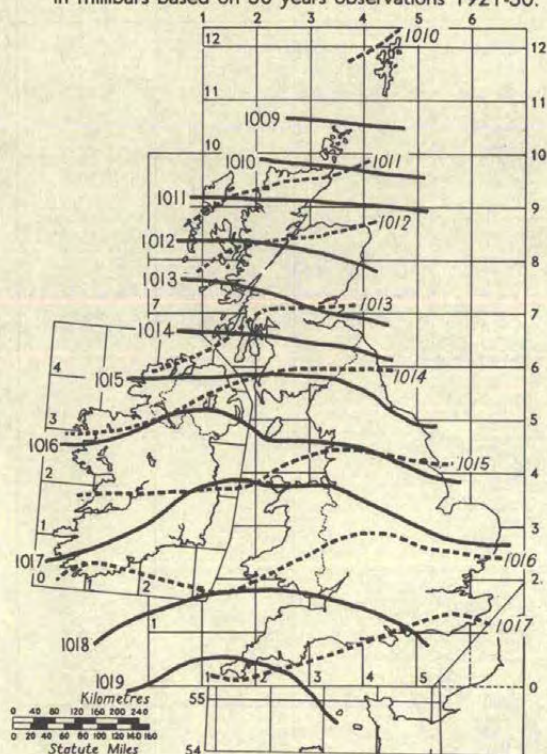
TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— September 1963 (1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities							
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust				
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Day and Time			
		ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	knots	°	knots	day hr.	knots	day	h.m.		
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	13-15, 26, 27	34	14	114	393	167	12	0	16.0	270	58	26	17	87	26	1505
	Orkney	Kirkwall	134	50	33	26	13	7	72	403	223	9	0	13.9	260	53	26	11	78	26	1120
	Caithness	Dounreay	110	39	30																
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	12-15, 23-27	60	18	207	306	122	25	0	18.9	190	48	15	11	69	26	0730
	Inverness	Durinish	125	65	55	13, 26	13	11	83	371	208	42	3	13.8	260	40	26	09	75	26	1300
1	Moray	Benbecula	69	51	35	13, 15, 23, 24, 26, 27	47	25	294	325	34	20	0	21.2	270	46	26	08	64	26	0740
	Aberdeen	Lossiemouth	101	80	60	-	0	5	34	288	332	66	0	10.3	250	33	26	11	60	26	1440
	Angus	Dyce	225	40	40	-	0	2	21	202	321	176	0	8.0	300	32	27	10	47	26	1125
		Auchterhouse	822	62	50	26	3	4	28	253	357	59	20	10.3	230	36	26	12	55	26	0855
		Bell Rock Lighthouse	128	131	124	14, 26, 27	23	17	133	421	126	17	0	16.7	240	45	26	09	62	26	0820
	Perth	Rannoch	1006	56	57	15, 26	12	14	123	427	82	72	4	15.0	250	40	26	07	64	26	0645
	Fife	Leuchars	78	40	40	-	0	7	36	256	388	40	0	10.6	260	32	26	15	57	26	1315
	Midlothian	Turnhouse	137	40	33	26	2	6	43	272	343	60	0	10.5	250	34	26	09	60	26	1320
6a	Argyll	Edinburgh, Blackford Hill	496	50	34	26	4	10	71	297	270	49	29	11.9	-	39	26	03	63	26	0215
	Bute	Tiree	89	60	47	23-27	24	17	141	457	77	21	0	17.5	170	40	25	22	63	26	0620
	Renfrew	Millport	50	34	34	26	1	6	33	239	277	145	25	9.8	250	34	26	07	61	26	1325
		Paisley	188	81	31	-	0	0	0	152	373	195	0	6.9	260	21	26	08	56	26	1025
		Renfrew	71	41	39	-	0	2	14	208	387	111	0	8.4	270	32	26	07	55	26	0635
	Lanark	Lowther Hill	2412	43	33	1, 25-27, 29-30	60	16	134	342	117	54	13	17.1	270	50	26	08	76	26	0700
	Ayr	Prestwick Airport	68	33	33	-	0	4	29	243	377	71	0	9.6	260	29	26	11	51	27	0050
	Dumfries	Eskdalemuir Observatory	825	50	35	-	0	2	3	144	350	223	0	6.7	290	24	27	10	53	27	0935
	Wigtown	West Freugh	83	33	33	-	0	6	32	268	295	125	0	9.6	200	28	25	24	45	27	0150
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	25, 26	3	11	109	351	188	69	0	13.6	200	38	25	24	55	25	2340
		Point of Ayre	64	33	33	27	1	10	115	364	192	48	0	13.8	260	34	27	04	50	26	0755
2	Durham	Durham	389	53	33	-	0	2	16	192	364	148	0	8.3	250	28	26	12	59	26	1100
		South Shields	73	57	44	-	0	2	15	187	347	171	0	7.9	280	30	26	13	50	26	1340
	Lincoln	Cranwell	288	47	47	-	0	4	20	163	369	168	0	7.7	260	27	26	12	47	26	1035
3	Norfolk	Grleston	45	33	33	-	0	2	5	213	478	24	0	8.8	200	26	26	05	39	26	0425
	Suffolk	Mildenhall	98	83	60	-	0	1	8	133	316	263	0	6.0	230	27	26	10	47	26	0925
	Bedford	Cardington	226	133	133	-	0	5	38	265	279	138	0	9.6	230	32	26	08	45	26	0715
	Hertford	Garston	307	50	33	-	0	0	0	43	440	237	0	5.0	230	17	26	06	38	26	1405
		Rothamsted	461	41	33	-	0	0	0	51	432	215	22	4.8	250	16	26	14	38	26	1235
	Essex	Stansted	358	31	31	-	0	0	0	194	373	153	0	7.8	210	21	26	05	34	26	0410
		Croyton	86	57	48	-	0	0	0	122	434	141	23	6.7	240	20	26	07	37	26	1100
		Sheehuryness	118	106	91	26	2	7	33	347	295	40	3	11.3	200	36	26	05	48	24	1555
4	Yorks, W.R.	Sheffield	533	83	35	-	0	1	2	54	302	362	0	4.0	280	23	26	11	53	26	0810
	Warwick	Edgbaston	643	118	73	-	0	1	1	54	489	176	0	5.6	270	22	26	13	39	26	1335
		Elmdon	362	30	31	-	0	1	8	201	319	192	0	7.7	260	28	26	12	47	26	0240
	Stafford	Keele	706	50	33	-	0	0	0	89	301	330	0	5.2	220	18	26	06	40	26	1115
	Gloucester	Avonmouth	92	61	33	-	0	5	45	243	222	155	55	9.5	240	31	26	09	46	26	0705
5	London	Kingsway	208	143	41	-	0	0	0	110	469	141	0	7.0	240	20	26	10	40	26	0935
	Middlesex	London(Heathrow)Airport	115	33	33	-	0	1	7	135	450	128	0	7.0	230	24	26	11	39	26	1110
		Hampton	139	101	100	-	0	1	7	102	388	245	0	5.9	240	23	26	10	40	26	0930
	Surrey	Kew Observatory	92	75	50	-	0	0	0	62	338	320	0	4.9	220	20	26	06	38	26	1120
		Gatwick	232	38	33	-	0	2	10	84	331	295	0	5.7	240	28	26	09	43	26	0805
	Kent	Isle of Grain	48	40	33	-	0	1	3	148	350	219	0	6.7	210	24	26	06	34	26	1120
		Dover	68	38	62	-	0	3	14	205	308	182	11	8.0	-	27	26	05	49	26	0430
	Sussex	Thorney Island	75	65	42	-	0	1	1	91	354	274	0	5.6	250	22	26	11	41	26	0915
	Hampshire	Hurn	86	53	46	-	0	2	8	150	403	159	0	7.8	230	27	26	04	42	26	0155
		Calshot	50	41	33	-	0	2	12	284	423	21	0	10.1	220	26	24	14	35	24	1410
		S. Farnborough	318	69	35	-	0	0	0	57	302	361	0	4.6	230	21	26	09	37	26	0525
	Berkshire	Abingdon	295	40	40	-	0	2	11	132	310	267	0	6.2	250	24	26	11	38	26	1200
	Wiltshire	Larkhill	491	51	36	-	0	0	0	132	344	244	0	6.3	280	20	27	10	42	26	0355
		Boscombe Down	425	55	55	-	0	2	4	122	356	238	0	6.2	240	24	26	04	37	24	1340
		Porton	406	44	44	-	0	2	5	106	346	263	0	6.0	210	25	26	03	45	26	0255
7a	Cumberland	Carlisle	137	42	30	-	0	2	21	157	397	145	0	7.9	250	26	26	09	49	27	0225
		Sellafield	83	39	35	-	0	6	45	267	342	66	0	10.7	290	32	27	05	46	27	0430
		Spadeadam	959	51	40	-	0	3	22	279	321	98	0	10.0	250	30	26	07	54	26	0610
	Westmorland	Moor House	1960	50	45	14, 27, 29	17	13	141	271	204	63	24	14.4	280	44	29	13	62	29	1225
	Lancashire	Southport	59	41	33	27	5	8	77	230	259	149	0	10.4	280	36	27	04	50	27	0405
		Fleetwood	112	50	31	26, 27	5	9	90	231	274	120	0	9.8	280	37	27	05	52	27	0415
		Speke	84	41	33	-	0	3	30	258	296	136	0	9.4	240	30	26	04	50	26	0940
	Cheshire	Manchester W/Centre	268	147	55	-	0	1	6	186	336	212	0	6.9	250	26	26	10	54	26	0910
		Bidston Observatory	262	64	39	-	0	7	59	222	319	120	0	-	260	32	27	04	56	27	0330
		Ringway	261	33	33	-	0	1	7	194	312	207	0	7.2	180	24	26	02	42	27	0615
7b	Anglesey	Valley	80	53	40	25, 26	3	8	80	285	270	82	0	11.9	200	35	26	01	45	26	0050
8a	Cardigan	Aberporth	483	41	41	26	1	8	63	301	214	141	0	11.3	250	34	26	07	60	26	0230
	Glmorgan	Port Talbot	91	40	35	-	0	6	31	286	225	178	0	9.6	230	30	26	02	48	26	0145
		Rhoose	257	37	32	26	6	4	29	280	364	41	0	10.3	260	38	26	07	56	26	0610
8b	Devon	Plymouth Hoe	191	88	65	-	0	3	15	178	322	205	0	7.3	-	27	26	02	42	26	0145
	Cornwall	St. Mary's, Scilly	230	65	57	-	0	4	41	352	288	59	0	11.6	250	30	26	07	45	24	0730
		The Lizard	315	75	60	-															
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	-	0														

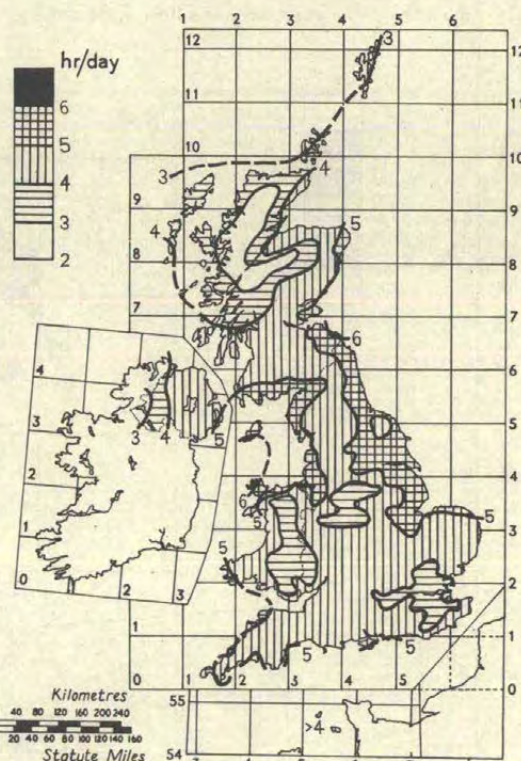


## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.



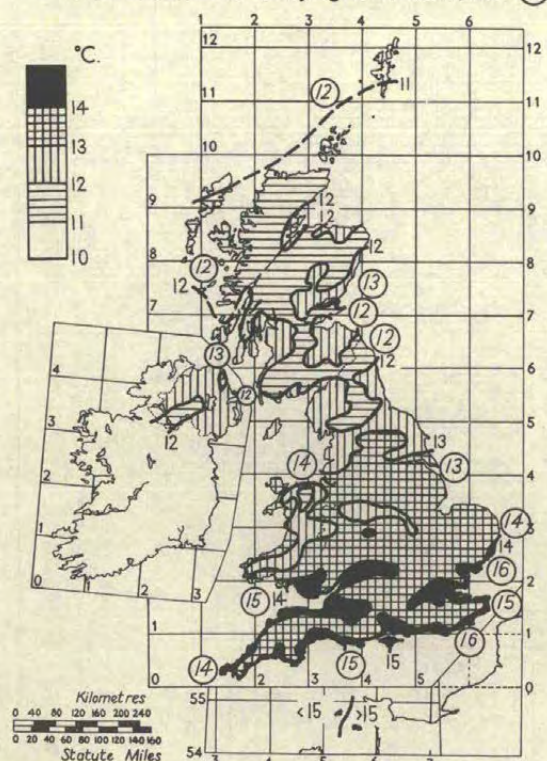
## BRIGHT SUNSHINE



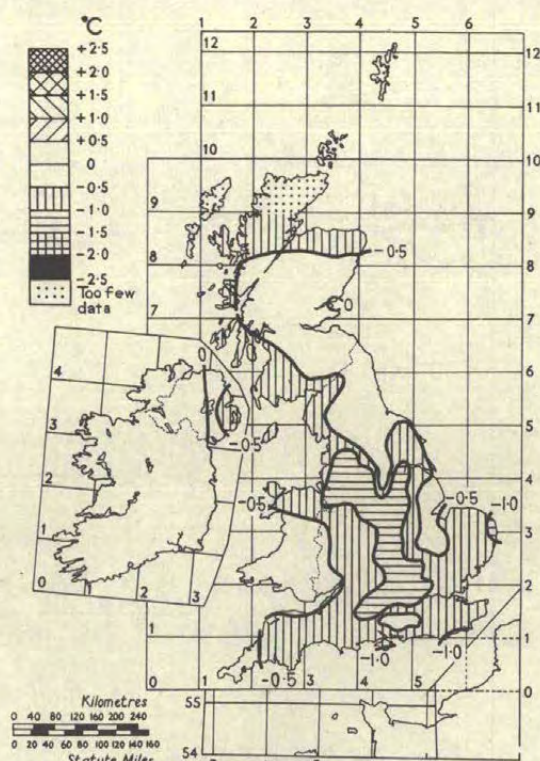
## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft.

Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

## SEPTEMBER 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

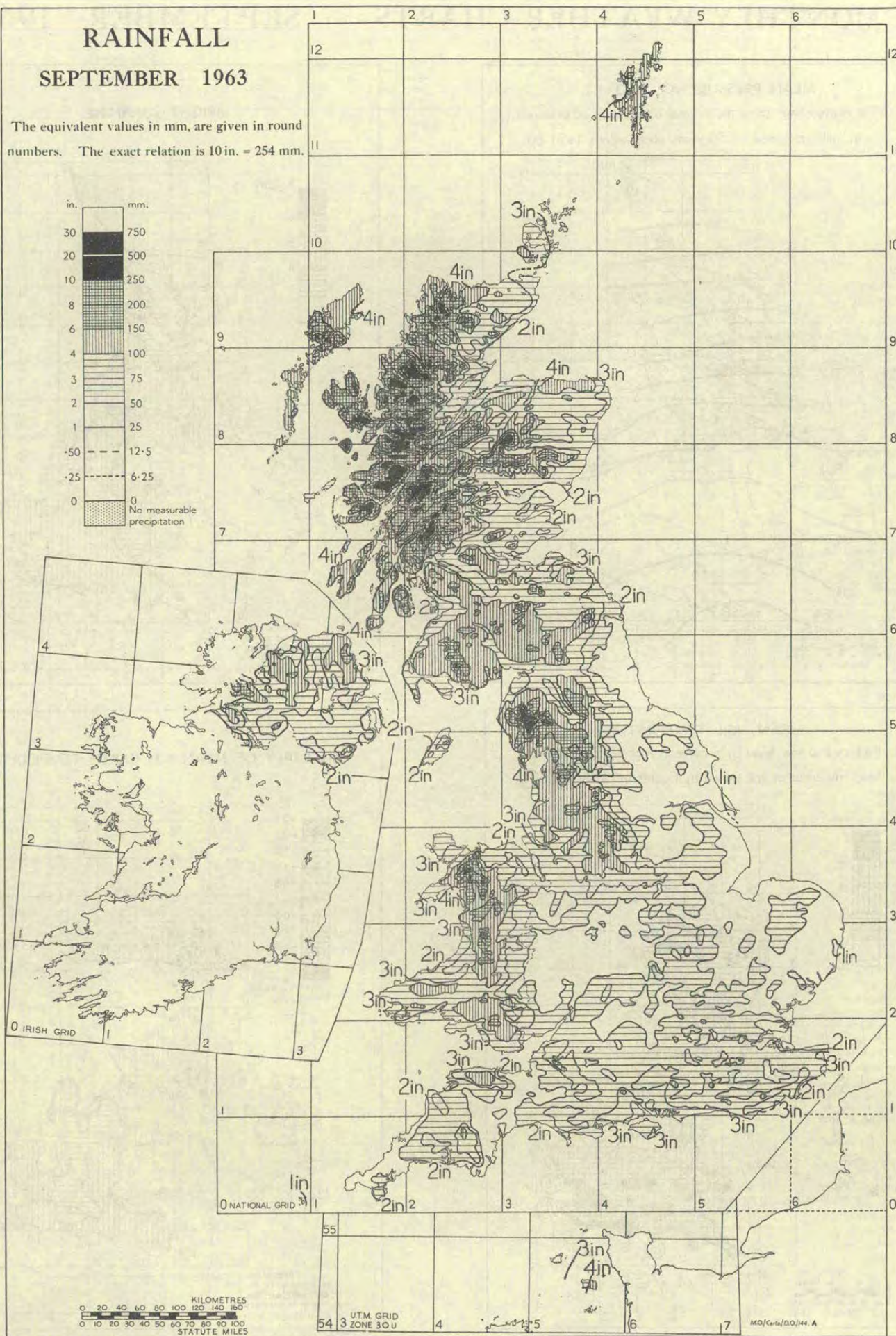
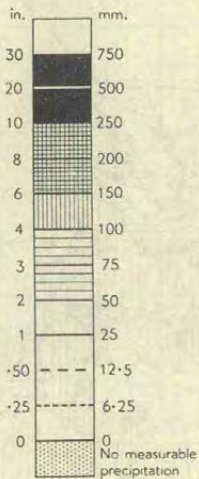




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE				
			Means of				Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1°	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average	
			A Max.	B Min.	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	0.01 in. (0.2mm.) or more	0.01 in. (1.0mm.) or more												
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%			
0 SCOTLAND, N.																														
Zetland																														
Hamnavoe	9 9	70	12.5	9.2	10.9	-	15.6	2	5.0	28	-	-	5.14	-	1.21	26	22	18	1	0	1	0	0	0	0	-	5	3.70	-	
Lerwick Obs'y. §	21-9	269	12.1	8.2	10.1	-0.5	15.6	22	4.4	28	-	-	4.83	129	1.25	26	22	18	0	0	1	3	2	0	0	0	6	3.02	86	
Baltasound	9 9	78	12.7	8.2	10.5	-	15.6	23, 24	1.7	19	10.2	-	5.16	127	1.02	26	23	21	0	0	0	0	1	0	0	0	4	3.11	-	
Orkney																														
Sule Skerry	9 9	43	12.6	9.7	11.1	-	15.0	21	7.0	25, 28, 30	-	-	3.00	-	.44	16	22	20	0	0	0	0	0	0	0	0	6	-	-	
Stenness	9 9	75	13.9	8.7	11.3	-	18.3	21	5.0	25	11.2	-	3.38	-	.35	3, 5	23	19	1	0	0	0	0	0	0	0	5	2.92	-	
Costa	9 9	115	13.5	8.8	11.1	-	18.3	21	5.6	12	-	-	3.24	-	.46	25	23	18	1	0	0	2	0	0	0	0	7	3.73	-	
Kirkwall	21-9	84	13.4	8.5	10.9	-	18.0	22	4.3	18	-	-	3.03	81	.34	2, 3	22	17	0	0	3	0	0	0	0	0	1	3.93	101	
Caithness																														
Dounreay	9 9	70	14.3	8.3	11.3	-	20.6	21	3.3	19	-	-	3.49	-	1.34	3	24	17	0	0	0	0	0	0	0	0	3	-	-	
Wick	21-9	119	13.9	8.5	11.2	-0.3	17.9	22	2.5	25	-	-	2.76	95	.80	30	20	15	0	0	0	1	0	0	0	1	4.38	111	-	
Sutherland																														
Cape Wrath	21-9	367	12.0	8.6	10.3	-1.3	15.5	23	5.0	25	-	-	4.64	101	.91	3	26	20	0	0	0	0	0	3	0	0	7	-	-	
Achany	9 9	280																												
Strathay	9 9	120	14.4	8.0	11.2	-0.2	20.6	20	2.8	18, 25	-	-	4.17	102	1.01	3	25	20	1	0	0	0	0	0	0	0	2	3.43	102	
Ross & Cromarty																														
Stornoway §	21-9	11	13.5	8.5	11.0	-0.8	15.6	21	2.5	18	-	-	4.45	119	.72	16	25	22	0	0	0	3	0	0	0	1	4	3.26	88	
Balmacara	9 9	2	14.5	9.2	11.9	-	18.3	21	3.9	18	-	-	6.39	-	.90	2	25	21	-	0	-	-	-	-	-	-	-	-	-	
Pöolewe	9 9	20	14.0	9.6	11.8	-	17.8	20	4.4	18	-	-	6.14	-	.84	3	23	22	0	0	0	0	0	0	0	0	4	3.05	-	
Inverpoll	9 9	45	13.9	8.9	11.4	-	18.3	1, 20	6.1	1, 25, 27	12.2	-	6.54	-	1.05	3	26	24	0	0	2	0	0	0	0	2	0	-	-	
Achnashellach	9 9	220	14.1	7.8	10.9	-0.7	17.2	1, 19, 21	1.7	19	-	-	9.35	131	1.40	26	25	25	0	0	0	0	0	1	0	0	0	-	-	
Kinlochewe	9 9	76	14.7	8.8	11.7	-	18.9	21, 23	1.7	19	12.1	-	7.90	-	1.42	26	23	20	0	0	0	0	0	0	0	2	1.84	-	5	
Blackbridge	9 9	690																												
Fortrose	9 9	15	14.4	10.2	12.3	-0.5	17.8	16	6.1	25	-	-	2.04	92	.46	3	13	11	-	0	-	-	-	0	0	1	3.84	99	-	
Inverness																														
Tarbatness	21-9	60	14.5	9.0	11.7	-	20.0	21	3.5	25	-	-	1.63	-	.41	3	16	13	0	0	0	0	0	0	0	0	2	-	-	
Benbecula	21-9	19	13.4	9.4	11.4	-0.9	17.7	1	4.5	18	-	-	4.60	109	.79	30	23	16	0	0	0	0	2	0	0	0	10	3.93	-	
Isle of Rhum	9 9	15	14.6	9.2	11.9	-	17.2	1	2.2	18	13.1	12.7	9.49	-	1.42	25	24	22	0	0	0	3	0	0	0	0	5	8	-	
Prabost	9 9	220	13.4	8.6	11.0	-	18.3	1	3.9	18	-	-	7.15	-	.74	25	27	22	0	0	0	4	0	0	0	2	7	3.02	-	
Duntulm	9 9	294	12.8	8.4	10.6	-1.2	15.0	1, 20, 22	3.9	27	-	-	5.92	117	.61	2, 25	23	20	0	0	4	0	0	0	0	1	8	3.00	88	5
Onich	9 9	48	14.3	8.6	11.5	-0.7	17.2	20	2.2	18	-	-	6.83	94	1.14	26	23	19	0	0	1	0	0	0	0	4	2	2.63	88	5
Fort William	9 9	27	14.5	8.9	11.7	-	17.8	21	0.6	18	12.4	12.9	4.48	-	.89	25	22	18	0	0	0	3	0	0	0	3	3	2.58	-	5
Fort Augustus	9 9	70	14.5	8.2	11.3	-0.6	18.9	21	1.1	18, 19	-	-	3.16	-	.70	25	20	17	0	0	0	0	0	0	0	2	3.12	-	-	
Cannich	9 9	350	14.8	6.7	10.7	-	18.9	16, 21	-3.3	19	-	-	3.79	92	.74	25	17	13	0	0	0	0	0	0	2	7	1	-	-	
Inverness	9 9	13	15.7	8.9	12.3	-	21.1	16	3.3	19	-	-	2.16	-	.65	3	14	12	0	0	0	0	0	0	0	1	0	4.13	-	-
Achnagoichan	9 9	1000	13.8	6.6	10.2	-	20.0	21	-0.6	19	10.3	-	3.33	-	.69	1	17	14	-	-	-	-	-	1	-	-	-	-	-	
Glenmore Lodge	9 9	1120																												
1 SCOTLAND, E.																														
Nairn	9 9	20	15.3	7.9	11.6	-0.7	20.6	16, 21	1.7	19	-	-	1.94	84	.52	3	17	10	0	0	0	0	0	0	0	3	0	2.85	70	-
Mornay	9 9	720																												
Grantown-on-Spey	9 9	155	15.2	8.2	11.7	-	21.7	16	2.8	19, 25	12.1	12.1	2.53	106	.55	3	15	13	0	0	0	0	0	0	0	1	0	4.07	101	-
Forres	21-9	15	15.3	8.4	11.9	-	21.1	21	1.6	19	11.8	-	2.46	-	.44	1, 3	15	12	0	0	1	1	0	0	0	3	2	4.11	-	-
Kinloss	9 9	92	15.6	9.1	12.3	-	21.7	16	3.9	19	-	-	2.76	-	.65	1	15	14	0	0	0	0	0	0	0	0	0	4.90	-	-
Elgin	9 9	21	15.1	8.3	11.7	-0.4	20.6	16	1.1	19	-	-	2.54	-	.39	1	14	13	0	0	1	0	0	1	0	1	1	-	-	
Lossiemouth	9 9	104	15.9	8.2	12.1	-0.1	22.2	16, 22	2.8	18	-	-	3.15	103	.51	1	16	14	0	0	0	0	0	0	0	0	0	4.23	107	-
Gordon Castle	9 9	80	15.5	8.4	11.9	-	22.2	16	3.9	19	-	-	4.31	-	.71	29	18	14	0	0	0	0	0	2	0	2	4.35	-	-	
Banff																														
Banff	9 9	80	15.5	8.4	11.9	-	22.2	16	3.9	19	-	-	4.31	-	.71	29	18	14	0	0	0	0	0	2	0	2	4.35	-	-	
Aberdeen																														
Braemar	9 9	1113	13.1																											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Per-centage of Average			Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1st	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average				
				A Max.	B Min.		Mean Temperature of A and B	Maximum	Date			Minimum	Date														1 ft.	4 ft.	in.	%
				Max.	Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
1 SCOTLAND, E.—cont.																														
Midlothian	Balerno ...	9 9	700	14.7	7.4	11.1	-	19.4	15	3.3	12,25	-	-	3.43	-	1.39	1	14	12	0	0	0	0	3	0	0	1	4.31	113	
	Turnhouse ...	21-9	114	15.8	8.1	11.9	-0.4	21.2	15	3.1	12	-	-	2.67	105	.78	1	14	11	0	0	0	0	2	0	0	1	4.86	-	
	Edinburgh—E. Craigs	9 9	200	15.6	8.2	11.9	-	20.6	15	3.9	12	-	-	2.70	-	.83	1	14	12	0	0	0	0	0	0	0	0	4.38	-	
	Davidson's Mains	9 9	200	16.0	8.3	12.1	-0.5	21.7	15	4.4	25	12.4	-	2.62	-	.64	1	14	13	0	0	0	0	0	0	0	1	4.88	- 5	
	Penicuik ...	9 9	620	15.0	7.1	11.1	-	20.6	20,21	2.8	12	12.2	-	3.26	-	.86	1	16	13	0	0	0	0	0	1	0	0	1	4.76	-
	Bush House ...	9 9	605	14.7	7.6	11.1	-	19.4	15,20	3.3	12	12.0	12.1	3.21	-	.87	1	16	11	0	0	0	0	0	2	0	2	5.18	-	
	Edinburgh—Blackford Hill	9 9	441	15.5	8.6	12.1	-0.5	21.1	15	4.4	27	-	-	2.83	111	.87	1	14	14	0	0	0	0	1	1	0	0	1	5.00	119
	Liberton ...	9 9	200																											
	Royal Bot. Gdns.	9 9	74	16.1	7.4	11.7	-1.1	21.1	15	1.1	8	12.5	-	2.61	-	.63	1	15	12	0	0	0	0	0	0	0	2	0	5.17	124
	E. Lothian	Haddington ...	9 9	162	16.2	8.0	12.1	-	21.1	16	2.8	12	-	-	3.01	-	1.17	1	15	9	0	0	0	0	1	0	0	2	5.18	-
	North Berwick ...	9 9	152	15.6	8.8	12.2	-0.6	19.4	16,23	5.6	9,20	-	-	2.28	94	.51	1	15	11	0	0	0	0	0	1	0	0	2	5.75	142
	Dunbar ...	9 9	75	15.7	8.9	12.3	-0.3	21.1	15	5.0	25	-	-	2.73	-	.83	1	15	9	0	0	0	0	0	0	0	0	6.27	135	
Berwick	Mertoun ...	9 9	225	16.1	6.8	11.5	-	20.6	17	1.1	11,20	-	-	3.12	-	.75	1	16	13	-	-	-	-	-	0	8	-	5.51	-	
	Lauder ...	9 9	600	15.6	6.1	10.9	-	21.1	17	-1.1	12	-	-	3.52	-	1.27	1	16	12	0	0	0	0	0	0	1	7	2	5.48	-
	Marchmont	9 9	498	15.3	7.3	11.3	-0.6	20.6	17	4.4	10,20,27	-	-	3.51	136	1.27	1	14	12	0	0	0	0	0	0	0	0	2	5.19	133 5
	St. Abb's Head ...	9 9	245	14.8	8.4	11.6	-	21.1	16	3.2	27	-	-	-	-	-	-	-	-	-	-	-	0	1	0	0	3	-	-	
Peebles	Stanhope Farm	9 9	741	14.7	7.3	11.0	-	18.9	17,20	0.0	11	-	-	5.68	-	1.55	1	18	14	0	0	0	0	0	0	0	1	1	-	-
	Blyth Bridge ...	9 9	830	14.2	6.8	10.5	-	18.9	20,21	2.2	12	-	-	3.63	-	.83	1	16	13	0	0	0	0	0	0	0	0	1	4.25	-
	West Linton ...	9 9	800	14.7	6.3	10.5	-	19.4	21,22	1.7	21	11.3	11.7	3.96	-	.91	25	20	14	0	0	0	0	0	1	0	0	0	-	-
	Glentworth ...	9 9	580	15.9	6.7	11.3	-	21.1	16	2.2	12,17,20	-	-	3.19	-	1.14	1	15	11	0	0	0	0	0	0	0	0	-	-	-
Selkirk	Bowhill ...	9 9	600	14.9	6.7	10.8	-	18.9	21	0.6	10	-	-	3.31	-	.95	1	13	12	0	0	0	0	0	0	0	0	2	-	-
Roxburgh	Wauchope ...	9 9	560	15.5	6.7	11.1	-	20.0	17	1.7	22	-	-	3.37	-	.71	8	14	12	-	-	-	-	0	0	-	-	-	-	-
	Sourhope ...	9 9	900	14.6	7.0	10.8	-	19.4	16,17	3.3	25,27	-	-	4.07	-	1.23	1	16	13	-	-	-	-	0	0	1	-	4.53	-	
6a SCOTLAND, W.																														
Argyll	Tiree ...	21-9	29	13.8	9.9	11.9	-0.7	17.2	1	5.9	18	-	-	3.55	86	.53	25	20	19	0	0	0	3	1	0	0	2	4	3.92	93
	Rhuvaal ...	21-9	65	14.2	10.1	12.1	-	16.7	16	6.5	24	-	-	4.37	-	.82	25	21	15	0	0	1	0	0	0	0	2	-	-	-
	Colonsay ...	9 9	87	14.8	8.6	11.7	-1.0	18.9	1	1.7	18	-	-	4.49	90	.64	25	23	19	0	0	0	3	0	0	0	0	4	-	-
	Tobermory ...	9 9	270	14.2	8.9	11.5	-	17.8	1,2	3.3	18	-	-	6.56	-	1.09	25	22	20	-	-	-	-	0	2	-	-	-	-	
	Campbeltown ...	9 9	10	14.4	9.4	11.9	-	18.3	16	4.4	26	-	-	3.45	-	.79	25	18	16	-	-	-	-	1	0	-	-	5.03	-	
	Achaglachgach ...	9 9	40	15.6	7.4	11.5	-	18.3	2,3,20	2.2	18	-	-	6.09	-	.77	28	25	23	0	0	0	3	0	0	0	1	0	-	-
	Oban ...	9 9	229	14.5	8.9	11.7	-0.7	18.3	1,2,21	4.4	18,19	-	-	6.22	118	1.13	25	24	21	0	0	0	0	0	0	0	1	1	3.19	89
	Lephimore ...	9 9	30	15.1	9.2	12.1	-	20.0	2	5.0	6,25	-	-	5.88	-	1.31	25	22	18	0	0	2	1	0	0	0	0	0	3.20	- 5
	Glenbranter ...	9 9	120	14.9	7.4	11.1	-0.7	18.9	2	1.7	18	-	-	8.34	100	1.75	25	23	20	-	-	-	-	0	0	1	-	-	-	-
	Benmore ...	9 9	46	15.8	8.3	12.1	-0.1	20.0	2	3.9	6,18	12.4	12.4	6.98	85	1.31	25	18	16	0	0	0	0	0	0	0	1	0	3.09	- 5
	Younger Bot. Gdns.	9 9	40	15.6	8.7	12.1	-	19.4	2	5.0	9,25	-	-	7.17	-	1.33	25	23	17	0	0	0	1	2	0	0	0	0	-	-
Bute	Rothsay	9 9	150	15.0	9.2	12.1	-0.4	18.9	2	5.0	27	12.6	12.3	4.49	89	.98	25	21	13	0	0	0	0	2	0	0	0	0	4.59	124
	Millport ...	9 9	16																											
Dunbarton	Helensburgh ...	9 9	293	15.1	8.6	11.9	-0.3	17.8	14,20,21	3.3	25	-	-	3.38	70	.78	25	19	15	0	0	0	0	0	0	0	0	1	-	-
	Cumbernauld ...	9 9	310	15.0	7.2	11.1	-	19.4	15	2.8	12,19,25	-	-	4.48	-	1.02	25	18	15	0	0	0	0	0	1	0	5	0	-	-
Stirling	Earls Hill ...	9 9	1100	13.2	6.4	9.8	-	16.8	20,21	1.8	27	-	-	4.71	-	1.18	25	20	13	-	-	-	-	0	0	0	-	4.46	-	
	Stirling ...	9 9	151	16.2	8.8	12.5	-0.2	19.4	15	3.9	12	13.3	12.8	2.77	81	.86	25	14	12	0	0	0	0	0	0	0	0	0	4.70	-
	Falkirk ...	9 9	100	16.1	7.8	11.9	-0.8	20.0	15,21	3.9	12	-	-	3.12	-	.74	25	16	14	-	-	-	-	0	0	0	-	-	-	-
Renfrew	Greenock ...	9 9	200	15.2	9.4	12.3	-0.5	18.9	16	5.0	25	-	-	4.64	87	1.13	25	22	17	0	0	0	0	0	0	0	0	0	4.51	-
	Paisley ...	9 9	106	15.8	9.2	12.5	-0.5	20.0	20	5.6	12,25,27	13.2	11.9	3.54	92	.81	25	18	13	0	0	0	0	4	1	0	0	0	4.28	114
	Barrhead ...	9 9	97	15.4	8.6	12.0	-	20.0	16	3.9	12	-	-	4.58	-	1.05	25	15	13	0	0	2	0	2	0	0	0	0	-	-
	Renfrew	21-9	26	15.8	8.8	12.3	-0.3	19.7	21	3.2	12	-	-	2.																



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE				
			Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum				1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day		Precip'n		Number of days								Daily Mean	Percentage of Average	
			A Max.	B Min.			Maximum	Date	Minimum	Date					Amount	Date	-0.1in (0.2mm.) or more	-0.4in (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1°	Grass min below 0° C			Gale
2 ENGLAND, N.E.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%
Northumb.																													
berland cont.																													
Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Corbridge	9 9	160	16.6	6.7	11.7	-	22.2	15, 16, 17	0.0	11	-	-	1.89	-	.76	25	11	9	0	0	0	0	0	1	0	2	1	-	-
Berwick-on-Tweed	9 9	76	15.0	8.2	11.6	-0.8	20.6	17	3.9	20, 21	-	-	2.54	127	.72	2	15	9	0	0	0	0	0	1	0	0	1	5.87	130
Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cockle Park	9 9	326	15.8	7.4	11.6	-0.5	21.1	16	2.2	21	11.9	-	1.31	53	.42	25	15	12	0	0	0	0	0	0	0	0	1	5.25	125
Acklington	21-9	138	15.9	7.6	11.7	-	21.4	17	2.4	20	-	-	1.50	-	.34	25	15	9	0	0	0	0	0	0	0	0	1	5.85	-
Tynemouth	21-9	95	15.4	9.5	12.5	-0.7	22.7	15	5.5	11, 25	-	-	1.56	68	.38	25	13	10	0	0	0	0	0	0	0	0	1	5.79	-
Durham																													
Chopwellwood	9 9	446	16.6	7.3	11.9	-0.6	23.3	16	2.8	20	-	-	1.80	73	.32	17	14	8	0	0	0	0	0	0	0	2	1	-	-
Ushaw College	9 9	594	16.6	7.4	12.0	-0.5	23.3	16, 17	3.3	27	-	-	1.42	54	.42	25	8	8	0	0	0	0	0	0	0	0	0	-	-
Houghall	9 9	123	17.2	6.3	11.7	-0.9	23.3	16	0.0	10, 20	-	-	1.84	75	.40	25	11	9	0	0	0	0	1	0	2	4	2	5.79	144
Durham	9 9	336	16.7	7.3	12.0	-0.7	22.8	17	0.6	20	13.3	12.8	1.78	75	.42	25	10	8	-	-	-	-	-	0	2	-	6.11	149	
Gateshead	9 9	509	16.1	8.7	12.4	-	23.9	16	4.4	27	-	-	1.65	-	.51	25	11	8	-	-	-	-	2	0	0	-	5.42	-	
Middleton St. George	21-9	115	17.1	8.2	12.7	-	23.3	17	1.1	20	-	-	1.67	-	.45	25	13	8	0	0	0	0	0	1	0	1	0	5.30	-
West Hartlepool	9 9	30	16.7	9.0	12.9	-	23.3	15, 17	4.4	20	-	-	1.25	-	.36	25	10	8	0	0	0	0	0	0	0	0	1	5.78	-
Yorks., N. Riding																													
Dishforth	21-9	105	17.7	8.5	13.1	-	24.8	16	2.8	20	-	-	1.39	66	.35	24	12	7	0	0	0	0	1	1	0	0	0	5.54	-
Thirsk	9 9	111	17.5	8.0	12.7	-	24.4	17	1.1	20	-	-	1.16	-	.35	24	10	7	0	0	0	0	0	0	0	1	2	-	-
York	9 9	57	17.6	8.9	13.3	-0.6	23.9	15, 16	2.8	20	13.6	13.2	1.34	64	.48	24	12	4	0	0	0	0	0	0	0	0	0	5.48	135
Ampleforth	9 9	313	16.4	8.5	12.5	-0.6	22.2	16, 17	3.3	25	-	-	1.80	71	.45	24, 25	11	7	-	-	-	-	2	0	3	-	-	-	-
Redcar	9 9	25	17.1	9.2	13.1	-	23.9	17	3.3	20	-	-	.88	43	.21	25	11	8	0	0	0	0	0	0	0	-	1	5.71	-
Whitby	9 9	135	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Scarborough	9 9	118	17.1	9.9	13.5	-0.6	23.9	17	5.0	26	13.8	13.8	1.46	70	.53	25	13	10	0	0	0	0	0	1	0	0	0	5.64	124
Silpho Moor	9 9	665	15.5	7.7	11.6	-	22.2	16, 17	1.7	20	11.7	-	1.79	-	.56	25	14	9	0	0	0	0	0	3	0	2	0	5.84	-
Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Whitby C/Guard	21-9	200	15.9	8.7	12.3	-	22.7	17	3.5	20	-	-	1.13	-	.25	25	11	8	0	0	0	0	0	0	0	0	1	-	-
Yorks., E. Riding																													
High Mowthorpe	9 9	574	15.8	7.8	11.8	-	22.8	16	4.4	20, 25, 28	12.4	-	2.16	105	.61	25	11	6	0	0	0	0	1	0	0	2	1	5.55	-
Hull	9 9	8	17.7	9.4	13.5	-0.9	24.4	15, 16, 17	3.9	20	13.4	12.4	1.24	61	.43	25	11	7	0	0	0	0	1	0	0	1	1	5.25	121
Leconfield	21-9	24	17.2	8.3	12.7	-	24.0	16	2.9	13	-	-	1.05	-	.38	25	11	7	0	0	0	0	1	0	0	3	0	5.20	-
Filey	9 9	122	16.0	8.3	12.1	-	22.8	17	1.7	20	-	-	1.38	-	.45	25	11	9	0	0	0	0	0	1	0	0	0	5.09	-
Bridlington	9 9	157	16.1	8.3	12.2	-	22.8	17	4.4	20	-	-	1.31	-	.48	25	12	7	0	0	0	0	0	4	0	2	5.56	-	
Spurn Head	21-9	29	16.5	10.4	13.5	-1.0	23.8	17	7.6	27	-	-	1.11	-	.30	24	7	6	0	0	0	0	1	1	0	-	0	5.53	117
Lincoln																													
Gainsborough	9 9	110	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Navenby	9 9	60	17.6	8.3	12.9	-	24.4	16	1.7	20	-	-	2.90	-	1.09	2	11	5	0	0	0	0	2	0	0	1	0	-	-
Waddington	21-9	224	17.0	9.1	13.1	-0.7	23.6	17	3.3	20	-	-	2.27	-	.64	2	8	6	0	0	0	0	1	1	0	0	0	4.93	-
Lincoln	9 9	22	17.7	7.7	12.7	-	25.6	16	-0.5	20	13.9	13.5	2.32	-	.91	2	9	6	0	0	0	0	1	1	1	1	0	5.07	-
Cranwell	9 9	205	17.2	8.6	12.9	-0.9	23.3	17	4.4	20	13.6	13.4	2.63	132	1.10	1	9	5	0	0	0	0	1	1	0	1	0	5.18	113
Cleethorpes	9 9	23	17.2	9.6	13.4	-1.0	24.4	17	6.1	25, 26	-	-	1.37	74	.33	25	10	9	0	0	0	0	0	0	0	0	0	5.39	113
Manby	21-9	55	17.4	8.7	13.1	-	23.6	17	5.4	10	-	-	1.26	-	.46	25	7	5	0	0	0	0	1	1	0	0	0	5.31	-
Skegness	9 9	15	16.9	9.2	13.1	-1.1	23.9	16, 17	5.0	5, 6	-	-	1.41	71	.73	25	7	6	0	0	0	0	0	0	0	0	0	5.08	105
3 ENGLAND, E.																													
Norfolk																													
Terrington	9 9	13	17.6	8.8	13.2	-	23.9	16	3.3	13	13.7	-	1.50	82	.53	25	10	8	0	0	0	0	1	1	0	0	0	4.76	-
St. Clement	21-9	76	17.4	9.1	13.3	-	23.7	16	3.7	13	-	-	1.48	-	.50	25	9	6	0	0	0	0	1	1	0	0	0	-	-
Marham	9 9	80	17.9	7.8	12.9	-	23.9	16	0.6	13, 20	13.8	13.3	2.10	-	.49	2	14												



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE		
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C.	Gale	Daily Mean	Percentage of Average			
				A Max.	B Min.		Maximum	Date	Minimum			Date	Amount														Date	0-in. (0.2mm. or more)	0.1-in. (1.0mm. or more)
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
4 MIDLAND COUNTIES—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%			
Yorks.,	Huddersfield	9 9	325	17.1	8.8	12.9	-0.4	25.6	16	2.2	20	13.1	12.8	2.56	-	.68	1.24	14	11	-	0	0	0	0	0	0	4.41	119	
W. Riding—	Oakes	21-9	761	15.7	8.4	12.1	-0.8	25.0	16	3.4	20	11.9	11.5	3.59	123	.90	24	17	13	0	0	0	0	0	0	0	5.10	134	
cont.	Bradford	9 9	439	16.2	8.8	12.5	-0.6	24.4	16	3.9	20	12.8	13.1	2.74	106	.81	25	15	11	0	0	0	0	0	0	0	-	-	
	Ilkley	9 9	315	16.9	8.3	12.6	-0.5	24.4	16	2.2	20	-	-	2.55	87	.81	25	13	12	0	0	0	0	0	0	0	5.18	135	
	Sheffield	9 9	429	16.9	9.2	13.1	-0.7	24.4	16	3.9	20	13.6	13.3	3.12	134	.89	25	11	7	0	0	0	0	0	0	0	4.55	118	
	Wakefield	9 9	121	17.8	8.4	13.1	-0.8	23.6	16	2.2	20	13.0	12.6	1.57	76	.55	24	11	5	0	0	0	0	0	0	0	-	-	
	Pontefract	9 9	255	17.2	9.0	13.1	-0.4	23.9	15	2.8	20	-	-	1.46	74	.51	24	7	6	0	0	0	0	0	0	0	-	-	
	Bramham	9 9	177	17.6	7.8	12.7	-	24.4	15	2.2	20	-	-	2.10	119	.53	24.25	11	8	0	0	0	0	0	0	0	5.84	-	
	Cawood	9 9	20	17.7	7.8	12.7	-	23.9	15.16	2.2	20	13.3	13.6	1.42	70	.45	25	10	6	0	0	0	0	0	0	0	5.17	-	
	Askham Bryan	9 9	110	16.6	8.5	12.5	-	23.9	15.15.17	3.3	20	-	-	1.44	67	.47	25	8	7	0	0	0	0	0	0	0	5.39	137	
Derby	Buxton	9 9	1007	15.2	7.6	11.4	-0.4	22.8	17	2.2	20	11.6	12.4	5.80	147	1.68	25	14	12	0	0	0	0	0	0	0	-	-	
	Chapel en le Frith	9 9	732	15.9	7.5	11.7	-	24.4	16	3.3	12	-	-	4.68	-	1.15	24	15	11	0	0	0	0	0	0	0	-	-	
	Mackworth	9 9	293	16.9	8.2	12.5	-	24.4	16	2.8	15	-	-	2.68	-	.85	1	10	7	0	0	0	0	0	0	0	-	-	
	Belper	9 9	203	17.6	9.0	13.3	-0.3	25.0	16.17	1.7	15	-	-	2.08	87	.88	1	8	8	0	0	0	0	0	0	0	-	-	
	Derby	9 9	159	17.4	9.0	13.2	-	23.9	15.18.19	3.9	13	-	-	2.47	-	.81	1	9	6	0	0	0	0	0	0	0	4.02	-	
	Morley	9 9	350	16.7	9.6	13.1	-	23.9	16	3.9	20	-	-	2.88	146	-	9	7	0	0	0	0	0	0	0	0	4.39	-	
	Chesterfield	9 9	298	-	-	-	-	24.4	16	1.1	20	-	-	-	.55	25	-	0	0	0	0	0	0	0	0	0	-	-	
Nottingham	Sutton Bonington	9 9	157	16.8	8.1	12.4	-1.2	23.3	16	2.8	13.15	13.4	13.6	2.21	119	.51	1	10	6	0	0	0	0	0	0	0	4.03	100	
	Watnall	21-9	385	16.8	8.7	12.7	-	25.1	16	4.7	25	-	-	3.89	174	1.39	1	8	8	0	0	0	0	0	0	0	0	4.41	-
	Mansfield	9 9	362	16.6	8.9	12.7	-0.9	23.9	16	3.3	20	13.3	-	2.59	121	.75	1	11	8	0	0	0	0	0	0	0	0	-	-
	Nottingham	9 9	192	17.6	9.2	13.4	-0.8	24.4	16	5.0	15	13.1	13.5	2.36	119	.59	25	7	7	0	0	0	0	0	0	0	0	4.32	110
	Warsop	9 9	150	17.3	6.5	12.9	-	25.0	16	-1.7	20	-	-	1.59	88	.45	24	11	7	0	0	0	0	0	0	0	0	3.76	-
	Finningley	21-9	34	18.0	8.8	13.4	-	25.2	16	3.0	20	-	-	1.83	-	.53	2	9	5	0	0	0	0	0	0	0	0	5.18	-
Leicester	Newtown Linford	9 9	392	16.9	7.9	12.4	-	24.4	16	3.9	13.20	-	-	3.14	-	1.40	2	13	8	0	0	0	0	0	0	0	0	4.42	-
	Bugbrooke Mills	9 9	228	17.7	8.3	13.0	-	22.2	17	1.7	13	-	-	1.71	-	.54	1	11	8	0	0	0	0	0	0	0	0	4.36	-
	Caldecott	9 9	175	17.8	7.3	12.5	-	24.4	16	-0.6	13.20	-	-	2.03	-	1.27	1	7	5	0	0	0	0	0	0	0	0	4.28	-
Northampton	Raunds	9 9	193	17.7	8.4	13.1	-	24.4	16	1.7	13	14.4	13.4	2.60	126	1.25	1	13	8	0	0	0	0	0	0	0	0	4.47	-
	Wittering	21-9	212	17.3	9.0	13.1	-	23.8	16	4.5	13	-	-	1.51	-	.48	1	10	6	0	0	0	0	0	0	0	0	4.97	-
Warwick	Birmingham K.E.S.*	9 9	450	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Edgbaston	21-9	536	16.7	10.0	13.3	-0.5	24.7	16	6.0	25	12.0	11.9	1.65	66	.42	1	14	7	0	0	0	0	0	0	0	0	4.41	113
	Luddington	9 9	138	17.8	8.3	13.1	-	25.0	16	2.2	13	-	-	1.52	71	.66	1	8	5	0	0	0	0	0	0	0	0	4.34	-
	Stratford on Avon	9 9	160	18.1	8.5	13.3	-	25.6	16	2.2	13	14.8	-	1.35	82	.53	1	9	6	0	0	0	0	0	0	0	0	4.69	-
	Elmdon	21-9	319	17.3	8.2	12.7	-	25.5	16	3.1	15	-	-	1.47	68	.37	25	11	7	0	0	0	0	0	0	0	0	4.48	-
	Shipston on Stour	9 9	365	17.3	9.1	13.2	-	23.9	15.16	5.0	13	13.6	-	2.11	-	.84	1	13	8	0	0	0	0	0	0	0	0	4.38	-
	Wellesbourne	9 9	153	17.6	8.2	12.9	-	24.4	16	2.2	13	13.9	-	1.50	66	.59	1	9	6	0	0	0	0	0	0	0	0	4.35	-
	Moreton Morrell	9 9	280	17.7	8.6	13.1	-	24.4	16	4.4	13.20	-	-	1.44	-	.56	1	8	7	0	0	0	0	0	0	0	0	4.50	-
	Rugby	9 9	385	15.9	8.4	12.7	-0.9	23.3	16	3.3	13	13.1	13.8	1.97	-	.48	25	11	9	0	0	0	0	0	0	0	0	-	-
Oxford	Oxford	9 9	208	17.6	9.7	13.7	-0.7	23.9	15	5.0	13	14.7	14.6	2.28	104	.65	2	12	8	0	0	0	0	0	0	0	0	4.32	98
	Grendon Underwood	9 9	220	17.8	7.6	12.7	-	23.9	16	0.6	13	13.9	13.9	2.51	-	.81	2	11	7	0	0	0	0	0	0	0	0	4.44	-
Buckingham	Medmenham	9 9	98	17.8	7.6	12.7	-	23.9	15	1.1	13	-	-	2.48	-	.75	1	13	10	-	-	-	-	-	0	5	-	-	
	Aylesbury	9 9	316	16.9	8.3	12.7	-	23.3	15	1.7	13	-	-	2.03	92	.34	4	12	9	0	0	0	0	0	0	0	0	4.19	-
Stafford	Keele	9 9	587	16.1	8.6	12.3	-	22.8	16	5.0	15.25	12.6	12.4	3.06	114	.65	1	15	7	0	0	0	0	0	0	0	0	4.16	-
	Oaken	9 9	409	17.2	7.6	12.4	-	23.3	16	2.8	20	12.9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stone	9 9	350	16.5	7.5	12.0	-	22.8	16	3.3	20	-	-	1.93	-	.49	25	17	9	0	0	0	0	0	0	0	0	4.11	-
	Penkridge	9 9	330	16.7	7.6	12.1	-	23.3	16	3.3	12	-	-	1.50	-	.45	1	13	8	0	0	0							



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS										EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE			
			Means of		Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n			Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average	
			A Max.	B Min.		Maximum	Date	Minimum	Date					Amount	Date	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more													
																		°C.												°C.
5 ENGLAND, S.E.—cont.	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.		°C.	°C.			in.	%	in.													hr	%	
Surrey	Kew Observatory	21-9	18	17.5	10.8	14.1	-0.7	22.3	15	6.3	28	14.3	14.2	2.24	113	.50	5	13	10	0	0	0	1	3	0	0	0	4.23	89	
—cont.	Gatwick	21-9	192	17.6	8.6	13.1	-	23.5	15	2.9	28	-	-	2.54	-	.65	4	12	9	0	0	0	2	2	0	1	0	4.04	-	
	Waddon	9	220	17.9	10.1	14.0	-0.9	23.3	18	6.1	13,28	-	-	2.86	135	.78	1	14	9	-	-	-	-	0	-	-	-	-	-	
	Addington	9	474	17.2	9.7	13.5	-0.8	22.8	18	6.1	25,28	-	-	2.81	125	.62	24	16	11	-	-	-	-	5	0	-	-	-	-	
Kent	Bromley	9	213	17.7	10.0	13.9	-1.0	23.3	17	6.1	13,16,28	-	-	2.46	127	.47	4,24	13	10	-	-	-	-	-	1	0	-	-	-	-
	Swanley	9	177	17.6	9.4	13.5	-	23.3	17	3.3	16	14.5	-	-	2.09	-	.53	4	12	8	0	0	0	2	1	0	0	3.52	-	
	Dartford	9	17	(18.0)	(9.9)	13.9	-	(24.4)	17	(5.6)	14,16	-	-	2.20	122	.65	4	12	8	0	0	0	2	1	0	-	-	-	-	-
	Tunbridge Wells	9	351	17.2	8.7	12.9	-1.3	23.3	17	2.8	28	14.5	15.0	2.51	114	.75	24	11	9	0	0	0	2	1	0	1	0	4.02	81	
	Goudhurst	9	280	17.4	9.1	13.3	-	22.8	17	3.9	14,16	-	-	2.80	115	.67	24	14	10	0	0	0	0	2	0	1	0	-	-	-
	East Malling	9	122	17.7	9.4	13.5	-0.4	23.9	17	4.4	14	-	14.2	2.28	109	.51	24	13	8	0	0	0	0	2	0	0	0	3.88	79	
	Gillingham	9	14	18.2	10.7	14.5	-	23.9	17	7.8	16,25,28	-	-	2.18	-	.55	4	13	8	0	0	0	0	4	0	-	-	3.67	-	
	Sittingbourne	9	224	17.2	(9.8)	13.5	-	22.8	17	6.7	7,16,28	(14.3)	(14.1)	(2.11)	99	(.50)	4	14	10	-	-	-	-	0	0	0	-	(3.92)	-	
	Isle of Grain	9	9	17.7	11.8	14.7	-	23.9	17	7.8	25,28	-	-	1.80	-	.38	24	11	9	-	-	-	-	2	0	-	-	3.72	-	
	Faversham	9	157	17.2	10.1	13.7	-	23.9	17	5.6	14	14.6	14.4	1.97	-	.48	24	9	9	0	0	0	0	1	0	0	0	3.80	-	
	Dungeness	21-9	10	17.3	11.1	14.2	-0.9	19.7	18	4.2	28	-	-	1.93	96	.65	4	13	9	0	0	0	0	1	0	-	-	-	-	
	Wye	9	185	17.4	10.2	13.8	-0.7	23.3	17	3.9	14	-	-	2.62	115	.54	1	14	10	0	0	1	0	0	1	0	0	3.97	76	
	Whitstable	9	9	17.4	10.9	14.1	-	23.9	17	5.6	14	-	-	1.96	113	.40	4	11	8	0	0	0	0	2	0	0	-	4.27	-	
	Folkestone	9	128	17.6	11.7	14.7	-	21.7	16	6.7	28	-	14.8	1.97	92	.46	4	13	9	0	0	0	0	2	0	0	-	4.31	-	
	Elmstone	9	28	17.6	9.9	13.7	-	25.0	17	3.9	28	-	-	3.01	-	1.15	1	12	8	-	-	-	-	4	0	-	-	-	-	
	Herne Bay	9	21	17.6	11.5	14.5	-	22.8	17	7.8	14,28	-	-	1.62	90	.51	5	10	7	0	0	0	0	2	0	0	-	3.88	-	
	Dover	9	19	17.6	12.2	14.9	-0.5	21.7	14	7.8	28	16.1	16.1	2.65	117	.61	1	12	9	0	0	0	0	2	0	0	2	4.13	- 5	
	Dover R.M.S.*	9	402	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Deal	21-9	18	17.1	12.1	14.6	-	24.2	17	6.8	14	-	-	2.32	-	.91	24	11	9	0	0	0	0	1	0	0	-	-	-	-
	Manston	21-9	145	17.3	10.5	13.9	-	24.4	17	4.7	28	-	-	2.14	-	.83	5	8	8	0	0	0	0	1	1	0	0	-	-	-
	Ramsgate	9	80	17.2	12.2	14.7	-	23.3	17	6.7	28	-	-	2.54	121	1.17	5	9	8	0	0	0	0	1	0	0	-	4.15	78	
	Margate	9	51	16.8	12.4	14.6	-1.0	22.2	17	8.9	7,25,28	14.8	14.8	1.79	92	.50	5	9	9	0	0	0	0	0	0	0	0	4.41	80	
Sussex	Thorney Island	21-9	10	18.2	10.5	14.3	-	23.6	15	4.8	28	-	-	2.50	120	.62	24	12	10	0	0	0	0	2	1	0	0	4.53	-	
	Haslemere	9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bognor Regis	9	24	17.2	11.1	14.1	-0.8	20.0	14,15	6.1	28	-	15.2	2.32	105	.69	24	12	10	0	0	0	0	1	0	0	-	4.90	92	
	Fernhurst	9	188	17.4	9.2	13.3	-	23.3	15	3.3	28	-	-	2.77	-	.74	4	13	9	0	-	0	0	0	-	0	0	4.62	-	
	Littlehampton	9	15	17.9	10.2	14.1	-0.8	22.2	14,16	6.1	28	-	15.1	2.40	111	.62	24	11	10	0	0	0	0	0	1	0	-	0	4.98	94
	Rustington	9	10	17.7	10.1	13.9	-	22.2	16	4.4	28	-	14.0	2.47	-	.63	24	12	11	-	-	-	-	-	0	-	-	4.63	-	
	Worthing	9	25	17.9	11.6	14.7	-0.6	21.7	14,16	6.7	28	15.1	14.9	2.49	115	.58	4	13	11	0	0	0	0	0	0	0	0	4.87	88	
	Brighton	9	32	17.8	12.1	14.9	-	23.3	16	8.3	28	-	15.5	2.72	125	.82	4	10	8	0	0	0	0	0	1	0	0	0	4.55	85
	East Grinstead	9	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Seaford	9	45	17.4	11.2	14.3	-	21.7	16	4.4	25	-	-	3.11	132	1.20	4	11	8	-	-	-	-	1	0	-	-	(4.48)	85	
	Eastbourne	9	23	17.1	11.9	14.5	-0.8	21.1	17	8.3	25,28	15.8	15.8	3.47	138	1.04	4	11	9	0	-	0	0	0	2	0	0	0	4.14	76
	Eastbourne C/Guard	21-9	17	17.7	11.2	14.5	-	22.5	17	7.1	28	-	-	3.25	-	.89	4	10	9	0	0	0	0	1	1	0	0	-	-	-
	Bexhill	9	12	17.2	11.6	14.4	-0.7	22.2	16	6.7	28	15.5	-	2.79	125	.83	4	14	9	0	0	0	0	1	2	0	0	4.23	81	
	Bodiam	9	73	17.9	9.3	13.6	-	23.3	17	3.9	16	15.4	12.9	3.70	-	1.70	24	11	10	-	-	-	-	3	0	0	-	3.75	-	
	Hastings	9	149	17.3	11.6	14.5	-0.8	21.7	16	6.7	28	15.3	15.2	3.10	141	.97	4	13	10	0	0	0	0	2	0	0	2	4.34	82	
Berkshire	Letcombe Regis	9	350	17.2	8.4	12.8	-	22.8	15,16	2.8	13	-	-	2.04	-	.57	1	15	9	0	0	0	0	0	0	-	-	-	-	-
	Abingdon	21-9	210	17.5	9.4	13.5	-	24.5	16	3.0	13	-	-	1.48	74	.36	2	13	7	0	0	0	0	1	3	0	0	4.36	-	
	Compton	9	339	-	-	-	-	-	-	-	-	(14.1)	-	1.66	-	.37	1	12	8	0	0	0	0	4	-	-	-	-	-	-
	Wallingford	9	157	17.4	8.1	12.7	-	24.4	15	1.1	13	14.1	13.6	1.73	-	.33	1	14	9	0	0	0	0	1	-	0	2	4.07	-	
	Shinfield	9	200	17.5	8.9	13.2	-1.1																							







TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER September 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS										EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE		
				Means of				Highest Maximum and Lowest Minimum								Total Fall	Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average	
				A Max.	B Min.	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%	in.	-0.1 in. (0.2 mm.) or more	-0.4 in. (1.0 mm.) or more	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	%
8h ENGLAND, S.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	%	
Somerset	Long Ashton ...	9 9	162	17.4	9.7	13.5	-0.6	23.9	16	5.0	13	15.0	-	3.73	116	.80	1	16	13	0	0	0	0	0	0	0	0	0	0	4.31	97	
	Wincanton ...	9 9	375	17.2	9.4	13.3	-	23.3	15, 16	5.0	13	-	-	3.02	-	.83	2	10	9	0	0	0	0	0	0	0	0	0	0	-	-	
Dorset	Bath City Boys' School	9 9	388	15.8	9.3	13.1	-	22.8	15	6.1	13, 25, 29	14.5	-	2.53	-	.49	24	12	10	0	0	0	0	0	0	0	0	0	0	4.17	-	
	Bath ... §	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Lyme Regis ...	9 9	200	17.8	10.1	13.9	-	22.2	16	5.6	28	-	-	2.56	-	.93	1	13	10	0	0	0	0	0	2	1	0	0	0	4.73	- §	
	Portland Bill ...	21-9	35	16.6	12.0	14.3	-1.0	19.2	15	10.2	14	-	-	1.88	88	.41	1	12	9	0	0	0	0	0	0	0	0	0	0	-	-	
	Weymouth ...	9 9	16	17.7	11.3	14.5	-0.8	21.7	15	7.8	13	-	-	2.92	117	1.04	1	11	8	-	0	-	-	-	1	0	-	-	-	4.61	89	
	Winfrith ...	9 9	85	(17.3)	(9.4)	(13.3)	-	22.2	15	3.9	13	-	-	3.32	-	.89	1	13	12	-	0	-	-	-	1	0	0	-	-	-	-	
	Shaftesbury ...	9 9	680	16.2	9.2	12.7	-0.7	21.7	16	6.1	28	-	-	3.11	117	.94	1	13	10	-	0	-	-	-	4	0	-	-	-	-	-	
	Swanage ...	9 9	37	17.3	10.8	14.1	-	21.1	14	7.2	13, 28	-	15.3	2.68	-	.73	1	11	8	0	-	0	0	1	1	0	0	0	0	4.68	90	
	Poole ...	9 9	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Devon	Clawton ...	9 9	412	16.8	8.5	12.7	-	22.8	16	2.8	13	-	-	2.90	-	.60	23	14	11	-	-	-	-	-	0	-	-	-	-	-	-
Hartland Point ...		21-9	298	15.4	12.0	13.7	-	20.8	12	9.6	25	-	-	1.65	-	.35	24	13	10	0	0	0	0	0	0	0	0	0	4	5.41	114	
Mount Batten ...		21-9	87	17.1	10.8	13.9	-0.8	21.9	16	5.0	28	-	-	1.99	69	.45	23	12	10	0	0	0	0	0	0	0	0	0	0	4.96	98	
Plymouth, The Hoe		9 9	119	17.5	10.9	14.2	-0.7	22.2	15, 16	5.6	28	15.0	14.7	2.03	70	.39	24	12	10	0	0	0	0	0	1	3	0	0	2	4.83	95	
Tavistock ...		9 9	457	17.6	9.5	13.5	-0.4	23.3	15, 16	2.8	28	-	13.4	2.71	-	.90	4	13	11	0	0	0	0	0	1	1	0	0	3	0	-	
Chivenor ...		21-9	20	17.7	10.7	14.2	-	24.5	16	6.5	13	-	-	1.44	-	.34	3	13	9	0	0	0	0	1	1	0	0	0	1	5.01	-	
Ilfracombe ...		9 9	25	16.5	12.2	14.3	-0.9	20.6	16	10.0	13, 21	15.3	15.2	2.75	82	.58	24	15	9	0	0	0	0	0	0	0	0	0	0	5.23	110	
Totnes ...		9 9	120	17.7	8.9	13.3	-	21.7	14, 16	2.8	13, 14	15.1	14.3	2.05	59	.49	24	11	9	0	0	0	0	0	0	0	0	1	1	4.43	-	
Slapton ...		9 9	104	16.9	10.9	13.9	-	21.1	17	5.6	28	-	-	1.86	-	.64	24	11	7	0	0	0	0	0	0	0	0	0	0	-	-	
Newton Abbot ...		9 9	272	17.7	9.6	13.7	-0.6	22.2	17	5.6	13	-	-	1.36	46	.38	4	13	7	0	0	0	0	0	0	0	0	0	0	4.83	99	
Cornwall	Paignton ...	9 9	8	17.7	10.5	14.1	-	21.7	17	6.1	13	-	-	1.56	54	.42	10	11	19	0	0	0	0	0	0	0	0	0	0	4.57	95	
	Torquay ...	9 9	26	17.8	11.1	14.5	-0.4	23.3	17	6.7	28	-	15.6	1.50	57	.41	10	10	7	0	0	0	0	0	0	0	0	0	0	4.79	92	
	Teignmouth §	9 9	20	17.8	11.4	14.6	-0.5	22.2	17	7.2	13, 28	-	-	1.12	44	.30	24	11	6	0	-	0	0	0	1	1	0	0	0	4.99	99	
	Starcross ...	9 9	29	17.9	10.4	14.1	-	22.2	16	6.1	13, 28	14.7	-	.93	36	.25	24	10	6	0	0	0	0	0	2	0	0	0	0	4.87	-	
	Exeter, Southam ...	9 9	160	13.1	9.9	14.0	-	22.2	16	4.4	13	-	-	1.12	-	.25	10	12	8	0	0	0	0	0	0	0	0	0	0	-	-	
	Exmouth ...	9 9	195	17.3	10.4	13.9	-0.4	20.6	16, 17, 26	6.7	13, 28	-	-	1.09	40	.25	3	9	7	0	0	0	0	0	0	0	0	0	0	5.01	101	
	Exeter ...	21-9	106	17.8	9.9	13.9	-	22.4	16	4.2	13	-	-	1.02	39	.22	4	11	6	0	0	0	0	0	2	0	0	0	0	4.40	-	
	Sidmouth ...	9 9	25	17.6	10.6	14.1	-0.5	21.7	16	7.2	13	-	-	1.45	-	.36	1	9	6	-	0	-	-	-	1	0	0	-	-	4.88	100	
	St. Mary's, Scilly	21-9	158	16.5	12.0	14.3	-0.9	19.3	16	9.8	28	-	-	1.00	41	.37	23	12	5	0	0	0	0	1	1	0	-	1	4.82	93		
	Penzance ...	9 9	62	17.1	11.1	14.1	-1.0	21.7	16	7.8	21, 22, 28	-	-	1.68	53	.58	23	10	6	-	0	-	-	-	0	0	0	-	-	5.21	100	
	Gulval ...	9 9	50	17.1	11.4	14.3	-0.5	22.2	16	8.3	13, 28	-	-	1.47	49	.38	23	9	6	-	0	-	-	-	0	0	0	-	-	5.47	109	
	Culdrose ...	9 9	268	15.8	13.4	13.1	-	20.5	16	7.2	28	-	-	1.77	-	.52	23	13	9	0	0	0	0	0	0	3	0	0	0	0	4.85	-
	Rosewarne ...	9 9	250	16.3	11.0	13.7	-	22.2	16	8.3	15, 21	14.6	14.4	1.82	63	.50	4	10	7	0	0	0	0	1	1	0	0	0	0	4.51	-	
	Lizard ...	9 9	240	15.9	11.4	13.7	-	19.5	16	8.9	28	-	-	1.58	47	.41	23	12	9	0	-	0	0	0	0	-	0	-	-	0	4.88	-
	Falmouth §	9 9	167	-	10.4	-	-	-	-	7.2	12	-	-	2.26	74	.57	4	10	9	0	0	0	0	0	0	0	0	0	0	0	4.32	86
Newquay ...	9 9	176	16.4	11.1	13.7	-0.9	22.8	16	7.2	13, 15	-	-	1.19	45	.34	24	9	6	0	-	0	0	0	0	-	0	-	2	4.73	95		
Antrim	St. Mawgan ...	21-9	337	16.2	11.1	13.7	-	23.4	16	8.6	25	-	-	1.42	-	.41	3	9	5	0	0	0	0	0	0	0	0	0	0	5.06	-	
	St. Austell ...	9 9	310	17.1	11.1	14.1	-	22.8	16	6.7	28	-	-	1.64	46	.38	3	13	6	0	0	0	0	0	0	0	0	0	0	-	-	
	Fowey ...	9 9	51	17.9	11.0	14.5	-0.4	22.8	16	6.7	13, 25	-	-	1.56	-	.42	24	11	6	0	0	0	0	0	0	0	0	0	-	-	-	
	Bude ...	9 9	50	16.7	9.9	13.3	-1.2	23.3	16	4.4	13	13.4	-	1.31	44	.25	24	14	8	-	0	-	-	-	-	0	-	-	4.75	100		
	Ellbridge ...	9 9	190	17.7	9.7	13.7	-0.5	22.8	16	4.4	28	-	-	2.31	73	.54	4	13	10	0	0	0	0	0	0	0	0	0	0	4.97	101	
	NORTHERN IRELAND																															
	Londonderry	Loughmore Forest	9 9	572	14.4	7.7	11.1	-	21.1	16	2.2	4	-	-	4.13	-	.70	25	20	19	0	0	0	0	0	0	0	0	0	0	-	-
		Ballykelly §	21-9	3	15.8	9.2	12.5	-0.4	22.4	16	3.0	4	-	-	2.86	92	.63	25	18	14	0	0	1	0	0	0	0					



[illegible]







[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS September 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)			VISIBILITY										WIND, NUMBER OF OBSERVATIONS															
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION												
											0	1	3	6	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
																										6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000												

H See Notes on Tables in the Introduction.









# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*



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### October 1963 — *Few night frosts.*

In the south anticyclones dominated the weather except during the first week and last few days of the month. In the north weather was more cyclonic in character.

The anticyclone off our South-West Approaches at the end of September retreated towards the Azores on the 1st, and during the first week troughs and depression moving in a general south-easterly direction across the British Isles brought rain, heavy at times, to most districts on the 1st, 3rd, 5th and 6th. There were good sunny periods and scattered showers between the rain-belts and day temperatures were generally below the average.

On the 7th and 8th the Azores anticyclone extended across France and Germany while a deepening depression approached Iceland. Rain and drizzle associated with this disturbance reached most districts during the afternoon of the 7th and continued throughout the night and for much of the following day; the cold front cleared south-east England during the evening of the 8th.

Behind the front an anticyclone developed over our South-West Approaches and most of southern England had 8-10 hours of sunshine on the 9th. However there was heavy rain in parts of Scotland — some places had more than 2 inches — as a small depression skirted the north coast. The next day the anticyclone drifted slowly into France and weather became generally cloudy and mild on the 10th and 11th as winds backed towards the south-west; it was also mainly dry apart from some rain in Scotland and some drizzle and sea fog in south-western coastal districts. The 12th was a warm sunny day over most of England with afternoon temperatures reaching 22°C in parts of the south-east — in central London it was the warmest October day since 1959 — but a deepening depression off the north coast gave some rain in Scotland and that night a belt of rain associated with a cold front moved south-east across most of Britain. The 13th was cool and showery with north-westerly winds.

During the next week pressure was high over much of Europe and fronts approaching from the Atlantic became slow-moving over the British Isles. Rain, associated with a complex low pressure system, near Iceland reached most western districts during the afternoon of the 14th and dull wet weather persisted over most of the country for about 48 hours before finally clearing south-east England about dawn on the 17th. Winds reached gale force in Scotland on the 15th and 16th. The 17th and 18th were mainly dry days with good sunny periods, but winds increased to gale force in Scotland again on the 19th as a deepening depression moved north-east towards Iceland. Rain reached most western districts early on the 19th and spread slowly across the country clearing south-east England about 24 hours later. After a temporary improvement another belt of frontal rain moved across the country on the 21st, rain being heavy at times in Scotland and south-east England.

A sunny day on the 22nd was followed by slight rain and drizzle that night and the next day as a feeble trough moved north-east over the country. Behind the trough an anticyclone developed over the Bay of Biscay and subsequently moved northward across England to establish a large high pressure area centred near the southern Baltic which persisted until the 28th. Weather was mainly dry with south-easterly winds; it was generally dull in the south and east, but there

were some sunny periods in the north and west. Fog patches formed during the night in parts of Scotland and in central and eastern England; fog was widespread and dense early on the 28th persisting locally for much of the day.

On the 29th a complex area of low pressure extended from Iceland to the Bay of Biscay. Associated fronts brought rain to most western districts on the 29th and to eastern and northern districts the next day. The 31st was sunny in south-west England but elsewhere rain continued for much of the day.

**Pressure and Wind** — Mean pressure was above the average generally except in the extreme north and north-west, the deviation at 9 hr ranging from +4.0 mb in parts of south and south-east England to -0.8 mb at Lerwick. Surface winds were mainly between west and north-west until the 5th becoming predominantly westerly until the 12th. South-westerlies from the 15th to the 21st were preceded and followed by rather variable winds, but winds were mainly south-easterly from the 25th until the end of the month. Wind reached gale force on 24 days in Scotland and on the 2nd-4th, 7th-9th, 19th and 30th in England and Wales. A gust of 76 kt was recorded at Lerwick on the 16th.

**Temperature** — Mean temperature was above the 1931-60 average the excess being 0.6°C in England and Wales, 0.4°C in Scotland and 0.9°C in Northern Ireland. Day temperatures were generally below the average during the first week but above during the third.

Extremes included: (England and Wales) 23.3°C at Letchworth on the 12th, -1.7°C at Corbridge on the 28th; (Scotland) 18.3°C at Castle Douglas on the 23rd and at Nairn on the 24th, -3.6°C at Huntly on the 28th (Northern Ireland) 18.9°C at Stormont Castle on the 18th, -0.6 at Pubble Forest on the 6th and at Knockmany Forest on the 6th and 22nd.

**Rainfall** — The general precipitation expressed as a percentage of the 1916-50 average was 63 over England and Wales, 86 over Scotland and 110 over Northern Ireland. Rainfall was less than half the average in south-west England and in some coastal areas of north-east England and eastern Scotland.

Thunder was heard on 3 days in Scotland and on the 1st, 4th and 31st in England and Wales.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 85 over England and Wales, 94 over Scotland and 95 over Northern Ireland. In Scotland sunshine was above the average except in the north and extreme west, but in parts of southern England sunshine was little more than half the average; it was the dulllest October at Worthing since 1934.

**Fog** — Fog was observed at 9 hr at one place or another on 15 days in Scotland and on 21 days in England and Wales; it was fairly widespread in the Midlands on the mornings of the 27th, 28th and 29th.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 17 nights and in north-east England on the night of the 24th/25th.



TABLE I—DISTRICT VALUES— October 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE						EARTH TEMPERATURE		RAINFALL		SUNSHINE	
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average	Highest	Lowest
			Max.	Min.	Mean							
0 SCOTLAND, N.	17.2	-3.3	+0.5	0.0	+0.2	—	—	90	-1	84		
Eastern												
1 SCOTLAND, E.	18.3	-3.6	+0.8	+0.3	+0.5	—	—	53	-5	105		
2 ENGLAND, N.E.	19.4	-1.7	+0.4	+0.5	+0.5	+0.6	-0.5	57	-4	102		
3 ENGLAND, E.	23.3	-0.6	0.0	+0.6	+0.3	+0.3	-0.5	67	-2	80		
4 MIDLAND COUNTIES	21.7	-0.6	+0.6	+1.1	+0.9	+0.5	-0.2	63	-3	87		
5 ENGLAND, S.E.	22.8	0.0	0.0	+1.1	+0.5	+0.1	-0.7	60	-1	72		
Western												
6 SCOTLAND, W.	18.3	-2.0	+0.3	+0.8	+0.5	+0.7	-0.2	87	+3	94		
7 ENGLAND, N.W. (and N. Wales)	20.0	-1.2	+0.6	+0.9	+0.8	+0.5	+0.1	76	0	105		
8 ENGLAND, S.W. (and S. Wales)	20.6	-0.6	0.0	+1.3	+0.7	+0.9	0.0	55	0	62		
NORTHERN IRELAND	18.9	-0.6	+0.8	+1.0	+0.9	-	-	110	+3	95		

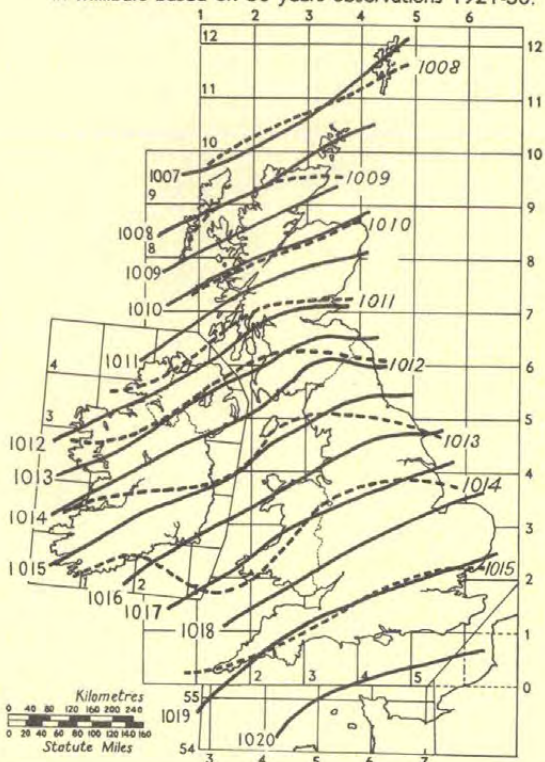
TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— October 1963 (1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed								Mean Hourly Wind Speed	Highest Velocities							
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record		Highest Hourly Wind			Highest Gust				
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration		Veer from N	Speed	Hour ended at	Speed	Day and Time			
		ft.	ft.	ft.		hr.							knots		knots	day hr.	knots	day	h.m.		
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	9, 11, 13, 15, 16	34	20	217	314	142	37	0	17.4	230	48	16	02	76	16	0050
	Orkney	Kirkwall	134	50	33	11, 13, 16	24	14	105	374	210	31	0	14.6	230	43	11	09	63	11	1130
	Caithness	Dounreay	110	39	30	11, 13, 30, 31	16	11	81	437	210	0	0	14.8	290	43	13	09	67	13	0645
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	9, 11, 13, 15, 18	55	23	235	282	108	64	0	18.2	220	45	15	20	73	20	1805
		Duirinish	125	65	55	9, 11, 15, 19, 20, 21	25	15	124	302	219	74	0	14.2	180	39	15	17	66	20	1820
	Inverness	Benbecula	69	51	35	8, 9, 11, 13, 15	43	30	309	304	55	33	0	20.5	160	42	19	10	72	20	1655
1	Moray	Lossiemouth	101	80	60	13	2	11	62	269	266	145	0	10.4	280	38	13	10	61	13	0920
	Aberdeen	Dyce	225	40	40	-	0	6	25	212	339	168	0	8.2	310	31	13	15	47	13	1300
	Angus	Auchterhouse	822	62	50	-	0	6	35	252	281	152	24	9.5	250	31	9	21	52	9	2015
		Bell Rock Lighthouse	128	131	124	-	0	6	35	252	281	152	24	9.5	250	31	9	21	52	9	2015
	Perth	Rannoch	1006	56	57	9, 11, 15, 30	5	18	194	297	131	86	31	15.3	270	36	9	23	55	15	2050
	Fife	Leuchars	78	40	40	9	2	11	67	284	283	108	0	11.3	230	36	9	20	56	9	1920
	Midlothian	Turnhouse	137	40	33	-	0	9	56	331	267	90	0	11.3	190	30	19	18	54	19	1225
		Edinburgh, Blackford Hill	496	50	34	9, 15, 19, 21	9	14	111	363	159	84	18	13.6	180	40	9	19	65	9	1735
6a	Argyll	Tiree	89	60	47	9, 11, 15, 19, 20	27	30	345	297	43	32	0	20.6	170	38	19	13	57	15	1820
	Bute	Millport	50	34	34	30	1	9	48	364	213	95	23	11.9	040	35	30	22	48	9	2035
	Renfrew	Paisley	188	81	31	-	0	4	18	216	366	144	0	8.3	180	29	21	08	47	21	0655
		Renfrew	71	41	39	-	0	8	26	294	343	81	0	9.8	210	27	21	08	46	21	0340
	Lanark	Lowther Hill	2412	43	33	8-10, 13, 19, 21	43	23	249	352	75	25	0	19.2	320	44	13	11	65	19	1255
	Ayr	Prestwick Airport	68	33	33	-	0	5	14	401	308	21	0	11.1	180	26	19	13	43	19	1405
	Dumfries	Eskdalemuir Observatory	825	50	35	-	0	7	27	205	318	194	0	8.2	230	28	9	17	48	15	1900
	Wigtown	West Freugh	83	33	33	-	0	10	55	409	233	47	0	12.4	180	31	19	13	48	19	1625
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	8, 15, 19, 21, 30, 31	20	20	185	434	90	35	0	16.9	210	36	21	10	53	19	1245
		Point of Ayre	64	30	30	-	0	18	147	430	153	14	0	15.9	110	32	30	22	45	9	1850
2	Durham	Durham	389	53	33	-	0	1	2	150	360	232	0	6.8	-	22	8	13	44	8	1300
		South Shields	73	57	44	-	0	4	15	195	411	123	0	8.3	140	25	30	23	41	13	1105
	Lincoln	Cranwell	288	47	47	-	0	3	10	317	360	57	0	10.2	290	25	13	12	40	3	1440
3	Norfolk	Gorleston	45	33	33	-	0	3	17	251	467	8	1	10.0	140	27	30	20	34	30	1905
	Suffolk	Mildenhall	98	83	60	-	0	1	1	240	424	79	0	8.6	230	22	3	12	39	3	1000
	Bedford	Cardington	226	133	133	-	0	5	12	363	341	28	0	11.0	210	25	3	10	35	3	1025
	Hertford	Garston	307	50	33	-	0	0	0	29	561	154	0	5.2	300	14	4	10	29	3	0915
		Rothamsted	461	41	33	-	0	0	0	20	454	270	0	4.7	220	12	3	12	30	4	1340
	Essex	Stansted	358	31	31	-	0	0	0	133	505	102	4	7.5	-	20	13	14	30	3	1055
		Croyton	66	57	48	-	0	0	0	80	550	107	7	6.8	230	17	3	13	37	3	1245
		Shoeburyness	118	106	91	30	1	3	18	403	304	18	0	11.5	130	36	30	18	44	30	1715
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	18	321	405	0	3.6	260	14	9	23	37	9	2210
	Warwick	Edgbaston	643	118	73	-	0	0	0	47	595	102	0	6.2	180	17	19	13	32	19	1215
		Elmdon	362	30	31	-	0	1	1	243	439	61	0	8.9	170	22	19	14	34	13	0650
	Stafford	Keele	706	50	33	-	0	0	0	127	456	161	0	6.6	090	18	30	19	42	19	1235
	Gloucester	Avonmouth	92	61	33	-	0	0	0	94	616	34	0	7.6	110	16	30	15	31	3	1510
5	London	Kingsway	208	143	41	-	0	0	0	96	485	163	0	6.0	220	19	3	15	31	3	1440
	Middlesex	London(Heathrow)Airport	115	33	33	-	0	0	0	92	513	139	0	6.4	210	16	3	13	37	3	1215
		Hampton	139	101	100	-	0	0	0	96	485	163	0	6.0	220	19	3	15	31	3	1440
	Surrey	Kew Observatory	92	75	50	-	0	0	0	92	513	139	0	6.4	210	16	3	13	37	3	1215
		Gatwick	232	38	33	-	0	0	0	105	419	220	0	6.2	220	21	3	12	36	3	1430
	Kent	Isle of Grain	48	40	33	-	0	0	0	78	454	193	19	5.9	220	21	3	14	30	3	1405
		Dover	62	38	62	-	0	1	5	269	366	57	47	9.3	-	25	3	12	43	3	1130
	Sussex	Thorney Island	75	65	42	-	0	0	0	129	333	282	0	5.8	100	20	30	14	36	3	1140
	Hampshire	Hurn	86	53	46	-	0	0	0	194	461	89	0	8.2	240	21	3	16	34	30	1710
		Calshot	50	41	33	-	0	1	11	337	387	9	0	10.8	140	29	30	18	38	30	1710
		S. Farnborough	313	69	35	-	0	0	0	55	405	284	0	5.1	230	16	3	17	30	3	1600
	Berkshire	Abingdon	295	40	40	-	0	0	0	183	332	229	0	6.5	170	20	19	12	34	19	1205
	Wiltshire	Larkhill	491	51	36	-	0	0	0	179	480	85	0	8.0	180	20	19	13	41	4	1510
		Boscombe Down	425	55	55	-	0	0	0	146	451	147	0	7.2	090	20	30	17	33	30	1635
		Porton	406	44	44	-	0	1	3	166	399	176	0	7.1	220	23	3	13	34	3	1155
7a	Cumberland	Carlisle	137	42	30	-	0	7	24	237	394	89	0	9.3	240	28	10	02	49	8	1045
		Sellafield	83	39	35	-	0	8	34	431	241	38	0	12.4	300	26	13	15	39	19	1325
		Spadeadam	959	51	40	-	0	9	43	321	306	56	18	11.4	(090	31	30	19)	(46	19	1310)
	Westmorland	Moor House	1960	50	45	9, 10, 12, 15, 18, 21	9	20	226	310	161	14	24	17.1	230	38	12	12	55	15	1805
	Lancashire	Southport	59	41	33	-	0	8	49	261	341	93	0	10.4	300	28	13	16	43	4	0530
		Fleetwood	112	50	31	-	0	10	68	333	299	30	14	12.2	320	30	13	20	49	13	1505
		Speke	84	41	33	-	0	5	24	362	296	62	0	10.9	220	30	8	13	49	8	1355
	Cheshire	Manchester W/Centre	268	147	55	-	0	1	1	191	479	73	0	8.2	170	22	19	14	46	13	1010
		Bidston Observatory	262	64	39	-	0	7	45	353	287	59	0	-	260	29	10	05	50	10	0330
		Ringway	281	33	33	-	0	3	8	230	423	83	0	8.8	100	25	30	19	41	19	1210
7b	Anglesey	Valley	80	53	40	19	2	19	154	393	152	43	0	15.3	170	35	19	14	48	19	1210
8a	Cardigan	Aberporth	483	41	41	-	0	19	109	464	164	7	0	15.2	190	28	19	16	(44	8	1035)
	Glamorgan	Port Talbot	91	40	35	-	0	8	38	378	260	68	0	11.4	100	27	30	08	44	30	0745
		Rhosee	257	37	32	-	0	6	18	317	353	56	0	10.5	250	28	3	12	39	3	1135
	Devon	Plymouth Hoe	191	88	65	-	0	3	14	271	360	159	0	8.8	-	26	19	11	40	30	1340
	Cornwall	St. Mary's, Scilly	230	65	57	-	0	10	72	427	206	39	0	13.1	290	29	6	22	44	16	2355
		The Lizard	315	75	60	-	0	22	165	477	77	16	9	17.1	100	33	30	11	47	6	2050
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	-	0	7	27	242	356	119	0	9.2	240	26	9	16	50	19	1045
	Antrim	Aldergrove	263	33	53	-	0	6	38	495	199	12	0	12.9	160	32	19	10</			

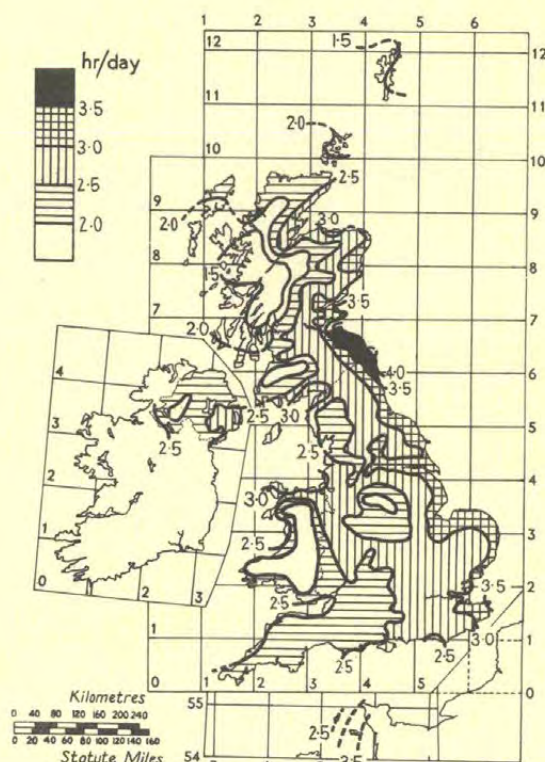


## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

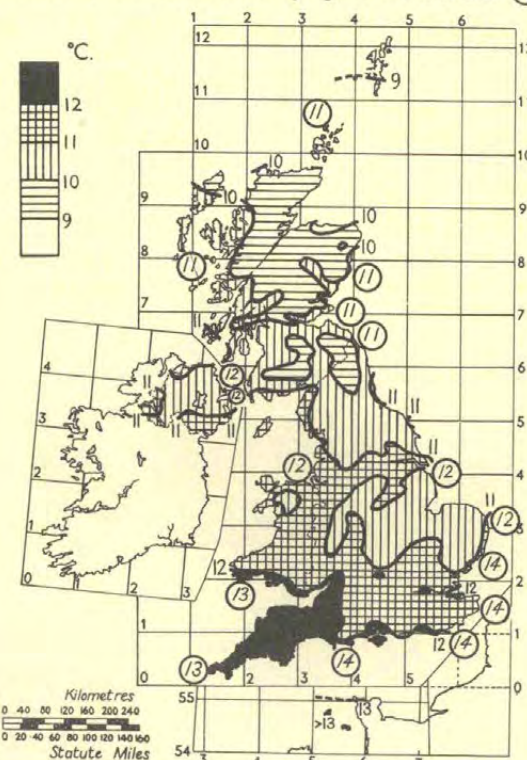


## BRIGHT SUNSHINE

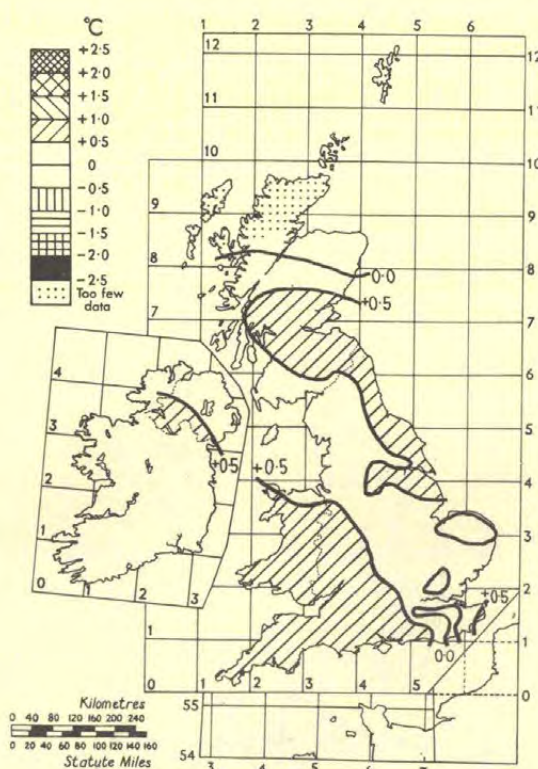


## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

## OCTOBER

### 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

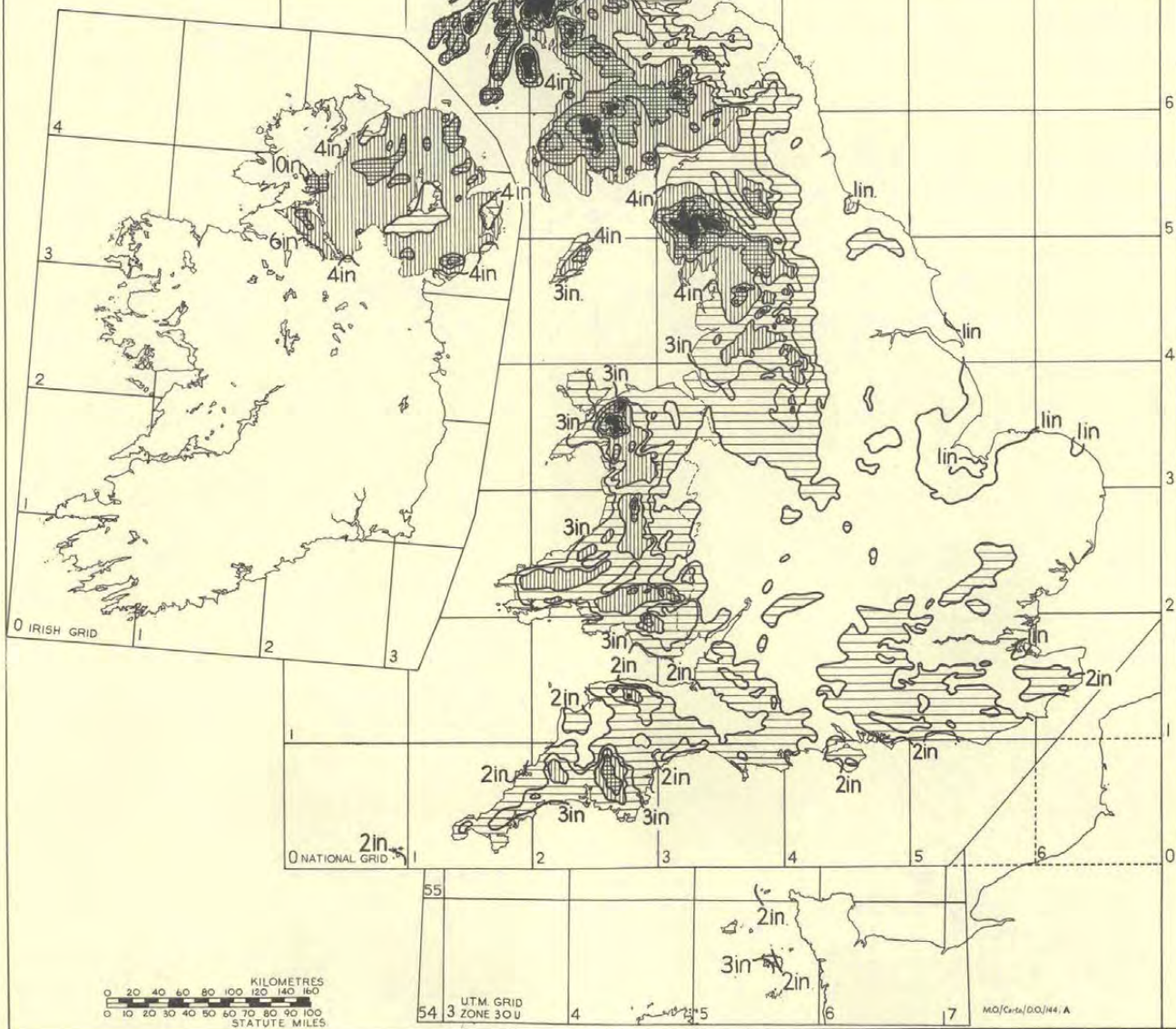
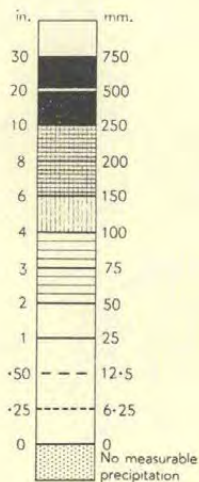




TABLE III—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE		Max. Min.	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE				
					Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C	Gale	Daily Mean	Per-centage of Average		
					A Max.	B Min.			Maximum	Date	Minimum	Date					1 ft.	4 ft.	Amount	Date												-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more
0 SCOTLAND, N.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.		°C.	°C.	in.	%	in.														hr	%				
Zetland	Hamnavoe	9 9	70	10.8	7.7	9.3	-	12.8	7.15	5.0	3.15	-	-	4.40	-	.97	10	21	16	0	0	0	0	0	0	0	0	9	1.51	-			
	Lerwick Obs'y. ¶	21-9	269	10.1	6.3	8.2	+0.1	13.1	8	2.8	3	-	-	4.54	102	.93	10	20	17	0	0	0	0	0	0	0	4	1.39	64				
Orkney	Baltasound	9 9	78	10.7	5.8	8.3	-	12.8	8	2.8	15	8.4	-	4.70	99	.97	12	22	15	0	0	0	0	0	0	0	3	1.45	-				
	Sule Skerry	9 9	43	11.2	8.4	9.8	-	14.0	15	5.5	14	-	-	3.07	-	.79	11	21	16	0	0	1	0	0	0	0	0	10	-	-			
Caithness	Stenness	9 9	75	11.4	6.8	9.1	-	(13.9)	8	3.3	28	9.1	-	3.43	-	.40	20	24	17	0	0	0	0	0	0	0	2	1.62	-				
	Costa	9 9	115	11.5	6.8	9.1	-	13.9	7.8, 15	4.4	5.28	-	-	3.32	-	.40	20	20	19	0	0	0	2	0	1	0	10	2.24	-				
Sutherland	Kirkwall	21-9	84	11.1	6.9	9.0	-	13.6	8	3.4	28	-	-	2.84	63	.40	11	20	18	0	0	3	0	0	1	0	1	1.94	78				
	Dounreay	9 9	70	12.7	5.8	9.3	-	16.7	24	0.6	28	-	-	2.47	-	.40	11	21	15	0	0	0	0	0	0	0	5	-	-				
Ross & Cromarty	Wick	21-9	119	11.8	6.6	9.2	+0.2	15.2	11	2.0	22	-	-	1.88	60	.29	11	21	12	0	0	0	0	0	0	3	2	2.52	95				
	Cape Wrath	21-9	367	11.3	7.6	9.5	+0.1	15.5	19	4.0	6	-	-	5.58	108	.67	7	21	18	0	0	0	0	0	1	0	0	12	-	-			
Inverness	Achany	9 9	280																														
	Strathay	9 9	120	12.9	5.3	9.1	+0.5	16.7	23	-1.1	28	-	-	2.19	45	.31	7	21	16	0	0	0	0	1	0	1	0	2.11	89 S				
Glenmore Lodge	Stornoway ¶	21-9	11	12.1	6.8	9.5	+0.1	14.4	19	0.5	7	-	-	4.97	113	.73	7	26	18	0	0	0	1	1	0	0	6	5	2.13	87			
	Balmacara	9 9	2	13.4	7.4	10.4	-	16.1	25	3.3	7.8	-	-	8.30	-	1.15	20	27	23	-	-	-	-	-	-	-	-	-	-				
Glenmore Lodge	Poolewe	9 9	20	13.6	7.4	10.5	-	17.2	19	2.2	7	-	-	7.75	-	.95	7	22	22	0	-	0	0	0	0	0	0	1	2.19	-			
	Inverpolly	9 9	45	13.2	6.7	9.9	-	16.7	15, 16	-0.6	28	10.1	-	6.48	-	1.15	20	21	21	0	0	1	0	0	-	1	6	0	-				
Glenmore Lodge	Achnashellach	9 9	220	13.1	4.4	8.7	0.0	16.7	15, 18, 20	0.0	7	-	-	10.97	120	2.07	9	25	21	0	0	1	0	0	0	0	0	0	-	-			
	Kinlochewe	9 9	76	13.4	6.4	9.9	-	16.1	15, 25	1.1	7	10.0	-	10.15	-	2.35	9	22	21	0	0	0	0	0	1	0	6	1.36	- S				
Glenmore Lodge	Blackbridge	9 9	690	11.6	3.7	7.7	-	14.4	8	-3.3	28	-	-	4.71	-	.68	9	24	18	-	-	-	-	-	3	14	-	2.20	-				
	Fortrose ¶	9 9	15	12.8	7.5	10.1	+0.4	(16.0)	20, 24	3.9	29	-	-	1.89	67	.39	8	12	10	-	-	-	-	1	0	-	-	2.43	88				
Glenmore Lodge	Tarbatness	21-9	60	11.9	6.8	9.3	-	16.0	24	2.0	28	-	-	2.32	-	.55	7	17	11	0	0	0	0	0	2	0	-	0	-				
	Benbecula	21-9	19	12.0	8.3	10.1	+0.3	14.0	25	3.6	14	-	-	5.38	105	.87	19	28	20	0	0	0	2	1	0	0	2	9	1.63	-			
Glenmore Lodge	Isle of Rhum	9 9	15	12.9	8.1	10.5	-	16.1	7	1.7	7	10.8	11.4	11.56	-	1.22	20	25	25	0	0	0	0	0	0	0	3	10	-	-			
	Prabost	9 9	220	12.2	7.1	9.7	-	15.0	27	2.8	14	-	-	8.67	-	1.34	19	27	24	0	0	0	2	0	0	0	4	9	1.72	-			
Glenmore Lodge	Duntulm	9 9	294	12.2	7.2	9.7	+0.3	14.4	25, 29, 30	2.8	14	-	-	6.25	104	.94	20	25	20	0	0	0	0	0	0	0	2	7	1.74	78 S			
	Onich ¶	9 9	48	13.1	6.8	9.9	+0.4	16.7	19, 20	1.7	7	-	-	10.03	110	1.81	9	25	23	1	0	1	0	0	0	0	9	4	1.74	84 S			
Glenmore Lodge	Fort William	9 9	27	13.1	6.4	9.7	-	17.2	19	-0.6	28	10.0	11.0	7.41	-	1.35	20	26	20	0	0	0	0	0	0	1	5	4	1.32	- S			
	Fort Augustus	9 9	70	12.4	5.9	9.1	+0.3	16.1	19	0.0	7	-	-	5.00	-	.83	9	26	19	0	0	0	0	0	2	0	-	1	1.45	-			
Glenmore Lodge	Cannich	9 9	350	12.5	4.2	8.3	-	15.0	7, 11, 23	-3.3	7, 28	-	-	4.53	86	1.20	20	20	17	0	0	0	0	0	0	5	11	0	-	-			
	Inverness	9 9	13	13.4	6.6	10.0	-	16.7	19	1.7	7	-	-	2.30	-	.46	8	14	12	0	0	0	0	0	1	0	2	0	2.78	-			
Glenmore Lodge	Achnagoichan	9 9	1000	12.3	4.9	8.6	-	15.6	7, 15, 23	-1.7	7	8.4	-	2.49	-	.56	1	14	10	-	-	-	-	-	-	1	7	-	-				
	Glenmore Lodge	9 9	1120																														
1 SCOTLAND, E.																																	
Nairn	Nairn	9 9	20	13.2	6.2	9.7	+0.5	18.3	24	1.1	7	-	-	1.92	71	.46	1	16	8	0	0	0	0	0	3	0	3	1	2.74	92			
	Moray																																
Moray	Grantown-on-Spey	9 9	720																														
	Forres	9 9	155	13.2	5.8	9.5	-	17.2	23, 24	0.0	7, 28	9.1	10.2	1.47	54	.26	2	14	8	0	0	0	0	0	2	1	2	0	2.68	89			
Moray	Kinloss	21-9	15	13.1	6.3	9.7	-	17.7	24	-2.8	28	9.3	-	1.58	-	.25	1	13	9	0	0	0	0	0	0	2	7	6	2.54	-			
	Elgin	9 9	92	13.9	6.0	9.9	-	17.8	7, 8	-1.1	28	-	-	1.54	-	.36	7	15	8	0	0	0	0	0	0	1	2	0	3.62	-			
Moray	Lossiemouth	9 9	21	13.3	5.1	9.2	+0.1	17.2	24	-3.3	28	-	-	1.37	-	.34	7	11	7	0	0	0	0	0	0	0	2	8	1	-			
	Gordon Castle	9 9	104	14.1	6.2	10.1	+0.9	17.8	24	0.6	7	-	-	1.33	42	.32	1	11	7	0	0	0	0	0	-	0	-	0	3.20	112			
Banff	Banff	9 9	80	13.4	6.4	9.9	-	17.8	8	2.8	28	-	-	1.23	-	.31	7	12	8	0	0	0	0	0	0	0	-	1	2.51	-			
	Aberdeen																																
Aberdeen	Braemar	9 9	1113	11.7	4.6	8.1	+1.1	15.6	25	-2.2	7	-	-	2.88	70	.70	19	17	15	-	-	-	-	0	2	2	-	2.57	- S				
	Balmoral	9 9	927	12.3	4.3	8.3	+1.1	16.7	25	-2.2	28	-	-	2.17	58	.41	19	19	11	0	0	0	0	0	-	3	8	0	-				
Aberdeen	Dinnet	9 9	580	12.9	4.9	8.9	-	16.7	25	-1.7	28	8.9	-	1.33	-	.38	2	13	6	0	0	0	0	0	0	0	2	9	2	-			
	Huntly	9																															



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE			
				Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day		Precip'n	Snow or Sleet	Snow lying at 9h.	Hall	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1	Grass min below 0° C.	Gale	Daily Mean	Percentage of Average		
				A	B			Maximum	Date	Minimum	Date	Amount	Date																		
				Max.	Min.			Max.	Min.	Max.	Min.	Max.	Min.			in.	%													in.	Date
G.M.T.		ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	Date	-0.1in. (0.2mm.) or more	-0.1in. (1.6mm.) or more	Snow or Sleet	Snow lying at 9h.	Hall	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost 1	Grass min below 0° C.	Gale	Daily Mean	Percentage of Average			
1 SCOTLAND, E.—cont.																															
Midlothian	Balerno ...	9 9	700	-	-	-	-	-	-	-	-	-	-	2.41	-	.93	21	12	11	0	0	0	0	0	0	0	0	2.71	96		
	Turnhouse ...	21-9	114	13.1	6.6	9.9	+0.6	17.0	23	-0.4	28	-	1.81	65	.72	21	16	9	0	0	0	0	0	2	2	6	2	2.89	-		
	Edinburgh—E. Craigs	9 9	200	13.4	6.4	9.9	-	17.8	8	-1.1	28	-	1.67	-	.63	21	13	10	0	0	0	0	0	2	1	4	1	2.97	-		
	Davidson's Mains	9 9	200	13.3	6.5	9.9	+0.6	17.2	8,23	-0.6	28	9.4	1.80	-	.67	21	16	10	0	0	0	0	0	2	1	3	1	3.13	-		
	Penicuik ...	9 9	620	12.4	4.7	8.5	-	16.7	25	-1.1	28	9.2	2.72	-	.79	21	17	10	0	0	0	0	0	2	8	0	3.20	-			
	Bush House ...	9 9	605	12.8	5.4	9.1	-	15.6	7,21,25	-1.7	28	9.4	2.30	-	.80	21	14	10	0	0	0	0	0	1	3	0	3.68	-			
	Edinburgh—																														
	Blackford Hill §§	9 9	441	13.2	6.9	10.1	+0.6	17.2	8	2.2	28	-	1.46	52	.62	21	13	9	0	0	0	0	0	2	0	1	4	3.31	107		
	Liberton ...	9 9	200	13.5	6.3	9.9	+0.6	17.2	7,8	-1.1	28,29	-	1.86	-	(.70)	21	11	10	0	0	0	0	0	2	2	3	0	3.83	-		
	Royal Bot. Gdns.	9 9	74	13.7	6.6	10.1	+0.5	17.8	7,8,23	-0.6	14	9.9	1.69	-	.60	21	12	10	0	0	0	0	0	4	1	6	0	3.17	112		
E. Lothian	Haddington ...	9 9	162	13.9	6.1	10.0	-	17.8	7,8	-1.1	28	-	1.39	-	.63	21	10	8	0	0	0	0	0	1	1	7	0	3.04	- S		
	North Berwick ...	9 9	152	13.7	6.8	10.3	+0.7	17.2	21	0.0	28	-	1.27	48	.45	21	7	7	0	0	0	0	0	0	0	0	3.41	124			
	Dunbar ...	9 9	75	13.7	7.1	10.4	+0.6	17.8	8	1.7	28	-	1.51	-	.63	21	10	7	0	0	0	0	0	0	1	0	4.63	145			
Berwick	Mertoun ...	9 9	225	13.2	5.3	9.3	-	(16.1)	8	0.0	28	-	1.47	-	.42	21	17	10	-	-	-	-	-	1	12	-	-	3.39	-		
	Lauder ...	9 9	600	12.4	4.3	8.3	-	16.1	8	-0.6	25	-	2.06	-	.44	21	17	10	0	0	0	0	0	5	1	12	0	3.83	-		
	Marchmont §§	9 9	498	12.6	5.2	8.9	+0.2	16.7	8	0.0	28	-	1.93	59	.45	31	14	10	0	0	0	0	0	4	0	-	2	2.80	114 S		
Peebles	St. Abb's Head ...	9 9	245	12.6	6.9	9.7	-	15.9	7	2.1	28	-	-	-	-	-	-	0	0	0	0	0	2	0	0	3	-	-	-		
	Stanhope Farm ...	9 9	741	12.4	5.4	8.9	-	15.0	7,8	0.0	7,28	-	4.89	-	1.22	21	22	20	0	0	0	0	0	1	7	0	-	-	-		
	Blyth Bridge ...	9 9	830	12.3	4.8	8.5	-	15.6	7,25	-1.1	7	-	3.59	-	1.16	21	19	15	0	0	0	0	0	2	2	5	1	2.67	-		
	West Linton ...	9 9	800	12.3	4.8	8.5	-	15.6	25	-1.7	28	8.3	3.67	-	.98	21	23	15	0	0	0	0	0	2	4	0	-	-	-		
Selkirk	Glentworth ...	9 9	580	13.3	4.7	9.0	-	17.2	8	-1.7	28	-	2.71	-	.85	21	15	12	0	0	0	0	0	0	1	-	0	-	-	-	
	Bowhill ...	9 9	600	12.4	5.3	8.9	-	15.6	7, (8)	-1.7	28	-	2.41	-	.46	21	19	14	0	0	0	0	0	3	1	-	4	-	-	-	
Roxburgh	Wauchope ...	9 9	560	13.0	5.2	9.1	-	15.6	8,25	-2.2	28	-	2.29	-	.73	21	18	13	-	-	-	-	-	3	2	-	-	-	-	-	
	Sourhope ...	9 9	900	-	-	-	-	-	0.0	14	-	-	1.96	-	.56	31	16	9	-	0	-	-	-	0	0	4	-	3.46	-		
6a SCOTLAND, W.																															
Argyll	Tiree ... §§	21-9	29	12.3	9.1	10.7	10.3	14.1	7	5.0	7,22	-	-	4.18	82	.61	2	23	18	0	0	0	0	0	0	1	4	1.67	63		
	Rhuvaal ...	21-9	65	12.6	9.0	10.8	-	16.2	8	5.3	20	-	-	7.02	-	.96	9	25	22	0	0	0	0	0	0	0	6	-	-	-	
	Colonsay ...	9 9	87	12.9	7.4	10.1	-0.1	15.0	7,15	1.7	7	-	5.96	94	.65	2,4	26	23	0	-	2	0	0	2	0	-	4	-	-	-	
	Tobermory ...	9 9	270	12.4	7.7	10.1	-	15.6	7	3.3	7	-	8.28	-	1.10	19	26	23	-	-	-	-	-	0	1	-	-	-	-	-	
	Campbeltown ...	9 9	10	13.8	8.0	10.9	-	16.7	7	4.4	14	-	4.80	-	.92	2	24	20	-	0	-	-	-	10	0	-	-	2.21	-		
	Achaglachgach ...	9 9	40	12.9	6.6	9.7	-	15.0	7	1.1	14	-	7.52	-	1.05	9	23	22	0	-	2	0	0	0	0	5	0	-	-	-	
	Oban ...	9 9	229	12.4	7.4	9.9	+10.4	15.0	7,8	3.3	7	-	8.83	132	1.15	8	27	27	0	0	0	0	0	0	0	6	1.55	68			
	Lepinmore ...	9 9	30	12.7	7.6	10.1	-	15.6	7	2.2	7	-	8.33	-	1.34	9	26	22	0	0	2	0	0	0	0	4	0	1.43	- S		
	Glenbranter ...	9 9	120	12.7	6.5	9.6	+0.8	15.0	7	0.6	7	-	12.13	110	2.45	9	27	26	-	0	-	-	-	0	0	3	-	-	-	-	
	Benmore																														
Forestry Sch.	Younger Bot. Gdns.	9 9	46	12.8	6.4	9.6	+0.2	16.7	7	2.2	7	10.1	10.7	11.37	105	2.04	9	25	24	0	0	0	0	0	6	0	2	0	-	-	-
	Rothsay §§	9 9	150	12.8	7.8	10.3	+0.7	16.1	7	4.4	14	10.2	10.7	5.82	87	.75	9	23	21	0	0	0	0	0	0	0	0	1.79	75		
	Millport ...	9 9	16	12.8	8.9	10.9	-	15.0	25	6.1	2,7	-	4.95	96	(.70)	2	24	18	0	0	0	0	0	0	0	-	2	-	-	-	
Dunbarton	Helensburgh ...	9 9	293	12.4	6.9	9.7	+0.6	14.4	7	2.8	7	-	5.79	87	.93	9	26	22	0	0	0	0	0	1	0	-	1	-	-	-	
	Cumbernauld ...	9 9	310	12.5	5.4	8.9	-	16.7	25	0.6	7	-	4.47	-	.76	9	23	20	0	0	0	0	0	3	0	9	0	-	-	-	
Stirling	Earls Hill ...	9 9	1100	10.1	5.2	7.7	-	13.3	8	0.0	28	-	6.74	-	.82	19	25	20	-	-	-	-	-	8	0	4	-	2.26	-		
	Stirling ...	9 9	151	13.1	6.7	9.9	+0.5	16.1	7,8	2.8	28,29	10.2	11.6	3.32	80	.51	19	23	15	0	0	0	0	3	0	2	1	2.51	-		
	Falkirk ...	9 9	100	13.2	6.1	9.7	+0.3	16.7	8	1.1	13	-	2.98	-	.60	9	17	13	-	-	-	-	-	0	-	-	-	-	-	-	
Renfrew	Greenock ...	9 9	200	12.6	7.7	10.1	+0.3	15.6	7,15	3.9	28	-	6.92	93	1.38	9	26	23	0	0	0	0	0	0	0	1	0	1.91	-		
	Paisley ...	9 9	106	13.2	7.5	10.3	+0.5	15.6	7	2.2	28	10.8	10.8	5.01	98	.86	21	23	18	0	0	0	0	0	4	0	0	2.48	107		
	Barrhead ...	9 9	97	13.2	6.6	9.9	-	16.7	7	0.6	28	-	5.32	-	.85	9	24	19	0	0	0	0	0	2	0	2	0	-	-	-	
Lanark	Renfrew §§	21-9	26	13.0	7.5	10.3	+0.8	16.3	7	1.7	7,28	-	4.28	91	.76	21	21	17	0	0	0	0	0	4	0	6	0	2.47	106		
	Crossmyloof ...	9 9	75	13.5	6.8	10.1	-	16.7	7	0.6	28	-	4.50	-	.71	21	21	16	0	0	0	0	0	4	0	2	0	2.49	-		
	Thorntonhall ...	9 9	453	12.3	6.1	9.2	-	15.0	7,15	-1.1	28	-	5.71	-	1.22	21	24	22	0	0	0	0	0	1	0	-	1	6			



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE			
			Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average	Most in a day		Precip'n		Number of days										
			A	B			Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date		-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost, °	Grass min below 0° C	Gale	Daily Mean	Percentage of Average		
			°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%			
2 ENGLAND, N.E.—cont.																														
Northumberland cont.	Haydon Bridge	9 9	270																											
	Corbridge	9 9	160	13.8	5.2	9.5	-	18.3	8	-1.7	28	-	-	1.19	-	.45	31	9	8	0	0	0	0	0	3	2	3	0	-	-
	Berwick-on-Tweed	9 9	76	13.0	6.6	9.8	+0.3	17.2	8	-1.1	28	-	-	1.34	55	.30	21	11	9	0	0	0	0	0	2	1	1	2	3.62	111
	Ponteland	9 9	220																											
Durham	Cockle Park	9 9	326	13.1	6.0	9.5	+0.5	17.8	8	2.2	14	9.8	-	1.26	47	.23	2	12	7	0	0	0	0	0	1	0	0	0	3.47	112
	Acklington	21-9	138	13.5	6.3	9.9	-	18.0	8	1.5	29	-	-	1.26	-	.40	31	12	7	0	0	0	0	0	2	0	1	0	4.02	-
	Tynemouth	21-9	95	13.3	8.5	10.9	+0.5	18.4	8	4.1	14	-	-	1.15	47	.35	31	9	6	0	0	0	0	0	0	0	0	1	3.50	-
	Chopwellwood	9 9	446	13.3	6.3	9.8	+0.6	17.2	11	2.2	14	-	-	1.57	57	.70	31	12	7	0	0	0	0	0	0	0	0	3	0	-
	Ushaw College	9 9	594	13.1	6.7	9.9	+0.7	17.2	8	3.3	31	-	-	1.27	47	.56	31	10	7	0	0	0	0	0	14	0	0	0	-	-
	Houghall	9 9	123	14.1	6.1	10.1	+0.8	18.9	8	-0.6	25	-	-	1.32	50	.42	31	12	7	0	0	0	0	0	1	1	6	0	3.13	107
	Durham	9 9	336	13.6	6.3	9.9	+0.5	18.3	8	1.1	25	10.8	11.4	1.31	54	.48	31	12	6	-	0	-	-	-	0	3	-	3.31	110	
	Gateshead	9 9	509	12.9	7.0	9.9	-	17.2	8	3.3	14	-	-	1.33	-	.55	31	10	7	-	0	-	-	-	1	0	0	0	3.01	-
Yorks., N. Riding	Middleton St. George	21-9	115	13.8	7.2	10.5	-	18.2	8	2.2	14	-	-	1.09	-	.30	2	9	7	0	0	0	0	0	0	0	3	0	3.07	-
	West Hartlepool	9 9	30	14.3	7.6	10.9	-	18.9	8	4.4	14	-	-	1.05	-	.31	2	11	8	0	0	0	0	0	1	0	0	0	3.11	-
	Dishforth	21-9	105	13.9	7.3	10.6	-	19.2	8	3.4	22	-	-	1.30	55	.29	31	12	7	0	0	0	0	0	1	0	0	0	3.07	-
	Thirsk	9 9	111	14.4	6.2	10.3	-	18.3	8	2.2	6, 14, 22	-	-	1.57	-	.45	2	11	8	0	0	0	0	0	2	0	9	0	-	-
	York	9 9	57	14.2	7.6	10.9	+0.7	18.9	8	3.9	14	10.9	11.7	1.72	78	.32	22	11	9	0	0	0	0	0	2	0	-	0	2.91	103
	Ampleforth	9 9	313	13.2	6.6	9.9	+0.4	17.8	8	3.3	6, 17	-	-	2.10	77	.48	2	12	10	-	-	-	-	-	2	0	4	-	-	-
	Redcar	9 9	25	14.6	7.9	11.3	-	19.4	8	3.9	14	-	-	1.16	51	.28	2	11	8	0	0	0	0	0	0	0	0	0	3.23	-
	Whitby	9 9	135	13.9	7.3	10.6	-	18.3	8, 11	3.9	14	-	-	1.45	60	.43	31	11	9	0	0	0	0	0	2	0	-	0	3.66	117
	Scarborough	9 9	118	13.9	7.8	10.9	+0.1	18.3	8	4.4	6, 14	10.8	12.1	1.32	59	.24	2	14	9	0	0	0	0	0	1	0	0	0	3.18	100
	Silpho Moor	9 9	665	12.0	6.2	9.1	-	17.2	8	2.2	14	9.3	-	2.43	-	.77	31	13	10	0	0	0	0	0	7	0	2	0	3.33	-
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Yorks., E. Riding	Whitby C/Guard	21-9	200	13.4	7.5	10.5	-	17.9	11	4.3	14	-	-	1.40	-	.45	31	12	8	0	0	0	0	0	0	0	0	3	-
High Mowthorpe		9 9	574	12.6	6.2	9.4	-	17.2	8	2.8	6	9.9	-	1.82	52	.45	31	13	9	0	0	0	0	0	1	0	3	0	3.05	-
Hull		9 9	8	14.4	7.8	11.1	+0.4	18.9	12, 23	3.9	14	11.1	11.3	1.57	66	.33	6	12	7	0	0	0	0	0	0	0	0	0	3.24	107
Leconfield		21-9	24	13.9	7.5	10.7	-	19.2	8	3.3	14	-	-	1.62	-	.38	6	11	9	0	0	0	1	0	0	0	4	0	2.91	-
Filey		9 9	122	13.4	6.4	9.9	-	17.8	8	1.7	6	-	-	1.24	-	.24	2	12	9	0	0	0	0	0	0	0	0	0	3.39	-
Bridlington		9 9	157	13.4	6.4	9.9	-	17.8	8	1.1	14	-	-	1.47	-	.31	22	14	9	0	0	0	0	0	1	0	6	0	3.33	-
Spurn Head		21-9	29	13.7	8.7	11.2	+0.1	18.0	12, 13	6.3	14	-	-	1.22	-	.36	6	12	7	0	0	0	0	0	0	0	0	1	3.19	95
Gainsborough		9 9	110	14.2	6.6	10.4	-	18.9	12, 23	2.2	14	-	-	1.08	-	.39	6	9	8	0	0	0	0	0	0	0	0	0	-	-
Lincoln	Navenby	9 9	60	14.2	6.8	10.5	-	19.4	12	1.7	14	-	-	1.24	-	.45	6	13	7	0	0	0	0	0	0	0	0	4	0	-
	Waddington	21-9	224	13.8	7.5	10.7	+0.7	19.3	12	3.9	6	-	-	1.11	-	.40	6	12	5	0	0	0	0	0	0	0	0	0	2.77	-
	Lincoln	9 9	22	14.8	6.6	10.7	-	19.4	12	-0.6	14	11.6	12.0	1.22	-	.41	6	12	6	0	0	0	0	0	1	1	4	0	2.62	-
	Cranwell	9 9	205	14.0	6.9	10.5	+0.5	19.4	12	3.4	14	11.0	11.9	1.03	47	.50	6	10	4	0	0	0	0	0	0	0	0	0	2.85	86
	Cleethorpes	9 9	23	14.3	7.7	11.0	+0.4	18.3	8, 12	4.4	6	-	-	1.20	56	.33	6	11	7	0	0	0	0	0	0	0	0	0	3.44	100
	Manby	21-9	55	14.2	7.2	10.7	-	19.2	12	2.5	6	-	-	1.01	-	.33	6	11	6	0	0	0	0	0	0	0	0	0	3.28	-
	Skegness	9 9	15	13.9	7.6	10.7	+0.1	18.3	12	2.2	6	-	-	.97	49	.35	6	10	6	0	0	0	0	0	0	0	0	0	3.08	89
	3 ENGLAND, E.																													
Norfolk	Terrington	9 9	13	14.2	7.3	10.7	-	20.6	12	2.8	14	10.9	-	.73	38	.38	6	11	6	0	0	0	0	0	0	0	2	0	3.05	-
	St. Clement	9 9	13	14.2	7.3	10.7	-	20.6	12	2.8	14	10.9	-	.73	38	.38	6	11	6	0	0	0	0	0	0	0	2	0	3.05	-
	Marham	21-9	76	14.1	7.3	10.7	-	20.4	12	2.9	3	-	-	1.15	-	.42	6	11	7	0	0	0	0	0	0	0	0	1	0	-
	Santon Downham	9 9	80	14.8	5.9	10.9	-	21.1	12	-0.6	9	11.2	11.7	1.68	-	.41	6	15	9	-	0	-	-	-	0	1	9	-	-	-
Suffolk	West Raynham	21-9	250	13.5	7.1	10.3	-	19.3	12	1.5	6	-	-	1.26	-	.45	6	11	6	0	0	0	0	0	0	0	2	0	3.28	-
	Cromer	9 9	178	13.6	7.5	10.5	-0.6	20.0	12	3.9	6	-	-	1.28	47	.38	20	13	7	-	0	-	-	-	0	0	1	-	3.34	93
	Sprowston	9 9	93	13.8	7.2	10.5	0.0	21.1	12	3.3	6	11.5	-	1.36	53	.46	6	13	7	0	0	0	0	0	0	0	3	0	3.05	89
	Burlingham	9 9	89	13.8	6.5	10.1	-	20.0	12	1.7	6, 15	-	-	1.43	58	.46	6	13	7	0	0	0	0	0	0	0	0	0	3.14	-
	Gorleston	21-9	12	14.1	8.2	11.1	-0.3	20.6	12	4.2	14	11.6	12.5	1.43	59	.39	6	13	7	0	0	0	0	0	0	0	0	0	3.12	87
	Mildenhall	21-9	15	14.6	8.1	11.3	-	21.2	12	3.0	14	-	-	1.36	71	.45	6	13	8	0	0	0	0	0	0	0	0	0	2.91	84
	East Bergholt	9 9	1																											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
							Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall		Percentage of Average		Most in a day		Precip'n		Number of days																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
											Mean Temperature of A and B														Highest Maximum and Lowest Minimum				Snow or Sleet				Snow lying at 9h.		Hail		Ice or snow pellets etc.		Thunder heard		Fog at 9h.		Air Frost		Grass min. below 0° C		Gale																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
											A Max.	B Min.	Maximum	Date											Minimum	Date	1 ft.	4 ft.	Amount	Date			-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.	in.	ft.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE						
				Means of				Highest Maximum and Lowest Minimum						Total Fall		Most in a day		Precip'n		Number of days												
				A	B	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	Percentage of Average	Amount	Date	-0.1in. (0.2mm.) or more	-0.01in. (1.6mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average			
				Max.	Min.	Mean	°	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	
5 ENGLAND, S.E.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.			
Surrey	Kew Observatory §§	21-9	18	14.2	9.2	11.7	+0.9	18.7	12	5.4	2.6	11.6	12.8	1.51	67	.35	5	14	10	0	0	0	0	0	0	0	3	0	2.92	93		
	—cont.	21-9	192	14.1	6.6	10.3	-	18.4	12	1.5	9	-	-	2.01	-	.31	1	14	12	0	0	0	0	0	0	2	0	4	0	2.58	-	
Kent	Waddon ...	9	9	220	14.5	8.1	11.3	+0.4	20.0	12	3.9	2.28	-	1.48	55	.33	20	12	10	-	-	-	-	-	-	-	-	-	-	-	-	
	Addington ...	9	9	474	13.6	7.9	10.7	+0.3	19.4	12	3.9	2.30	-	1.94	67	.49	20	14	10	-	-	-	-	-	0	0	-	-	-	-		
	Bromley ...	9	9	213	14.4	8.1	11.3	+0.4	21.1	12	3.3	31	-	1.58	63	.36	5, 20	12	10	-	-	-	-	-	0	0	-	-	-	-		
	Swanley ...	9	9	177	14.3	7.5	10.9	-	20.6	12	2.2	28	12.1	-	1.25	-	.37	5	11	9	0	0	0	0	0	2	0	0	0	2.75	-	
	Dartford ...	9	9	17	14.8	7.5	11.1	-	21.7	12	3.3	6	-	-	1.17	56	.34	5	10	8	0	0	0	0	0	1	0	-	0	-	-	
	Tunbridge Wells	9	9	351	13.7	6.5	10.1	-0.1	18.3	12	2.2	3.14	11.2	12.7	2.13	66	.44	31	12	11	0	0	0	0	0	3	0	3	0	2.79	78	
	Goudhurst ...	9	9	280	14.2	6.7	10.5	-	18.3	12, 23	2.2	28	-	-	1.94	53	.38	3	14	9	0	0	0	0	0	2	0	3	0	-	-	
	East Malling §§	9	9	122	14.6	6.6	10.6	+0.4	20.6	12	1.7	3	-	12.6	1.75	62	.46	5	14	10	0	0	0	0	0	2	0	0	0	2.66	83	
	Gillingham ...	9	9	14	15.0	8.3	11.7	-	21.1	12	4.4	30	-	-	2.87	-	.31	5	12	9	0	0	0	0	0	3	0	-	0	2.87	-	
	Sittingbourne ...	9	9	224	14.1	7.6	10.9	-	18.9	12, 23	2.8	28	11.8	12.8	1.61	48	.45	5	11	10	0	0	0	0	0	2	0	3	0	3.18	-	
	Isle of Grain ...	9	9	9	14.9	9.1	12.0	-	20.6	12	3.9	30	-	-	.99	-	.30	6	9	7	-	-	-	-	-	2	0	0	-	2.90	-	
	Sussex	Faversham ...	9	9	157	14.1	7.7	10.9	-	18.9	20	3.3	30	12.1	13.0	1.55	-	.44	5	13	7	0	0	0	0	0	2	0	0	0	3.22	-
Dungeness ...		21-9	10	14.3	9.1	11.7	-0.1	17.5	10	4.4	14	-	-	1.38	45	.28	1	11	6	0	0	0	0	0	0	0	-	1	-	-		
Wye ...		9	9	185	14.0	7.1	10.5	-0.1	18.3	23	2.8	3.14	-	-	2.13	62	.41	6	13	9	0	0	0	0	2	0	1	0	2.97	82		
Whitstable ...		9	9	9	14.5	8.3	11.4	-	20.0	12	3.9	30	-	-	1.39	56	.37	6	8	0	0	0	0	0	1	0	-	0	3.44	-		
Folkestone ...		9	9	128	14.2	8.5	11.3	-	17.8	10	3.3	30	-	13.7	2.04	67	.56	6	13	7	0	0	0	0	0	0	0	1	3.21	-		
Elmstone ...		9	9	28	14.1	7.1	10.6	-	19.4	12	3.3	6.12	-	-	1.93	-	.65	6	12	8	-	-	-	-	0	0	-	0	-	-		
Herne Bay ...		9	9	21	14.6	8.8	11.7	-	18.9	12	3.9	20	-	-	1.55	60	.51	6	9	8	0	0	0	0	0	0	-	0	3.28	-		
Dover ...		9	9	19	14.4	9.2	11.8	0.0	18.3	10	4.4	30, 31	13.4	14.4	2.25	68	.71	6	13	8	0	0	0	0	0	0	0	1	3.14	-		
Dover R.M.S.*		9	9	402	13.1	7.9	10.5	-	16.1	10	2.8	30	-	-	2.01	52	.82	6	14	10	-	-	-	-	4	0	0	-	-	-		
Deal ...		21-9	18	14.3	9.6	11.9	-	17.8	23	4.8	30	-	-	1.93	-	.52	6	13	6	0	0	0	0	0	0	0	0	-	-	-		
Manston ...		21-9	145	13.9	7.9	10.9	-	19.2	12	3.7	30	-	-	1.71	-	.71	6	10	7	0	0	0	0	0	0	1	0	0	-	-		
Ramsgate ...		9	9	80	14.1	9.4	11.7	-	17.2	10, 12	4.4	30	-	-	1.75	65	.77	6	10	7	0	0	0	0	0	0	-	-	3.44	93		
Margate ...		9	9	51	14.1	9.3	11.7	-0.3	19.4	12	4.4	30	12.1	13.3	1.70	69	.74	6	9	7	0	0	0	0	0	0	0	0	3.50	94		
Thorney Island ...		21-9	10	14.9	8.8	11.9	-	18.7	23	3.3	14	-	-	-	2.13	74	.50	30	14	11	0	0	0	0	0	1	0	1	0	2.45	-	
Haslemere ...		9	9	655	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Bognor Regis ...		9	9	24	14.2	9.4	11.8	0.0	16.1	10, 17, 23	4.4	14	-	13.8	1.83	59	.48	30	13	11	0	0	0	0	0	0	0	0	0	2.94	75	
Fernhurst ...		9	9	188	14.2	7.2	10.7	-	18.3	12, 23	1.7	2.14	-	-	2.59	-	.56	30	15	13	0	0	0	0	0	0	-	0	5	0	-	
Littlehampton ...		9	9	15	14.6	8.4	11.5	0.0	16.7	10, 13, 23	3.3	14	-	-	2.56	85	.66	30	14	10	0	0	0	0	0	0	-	0	2.65	68		
Rustington ...		9	9	10	14.7	8.2	11.5	-	17.2	23	2.8	14	-	-	2.51	-	.73	30	14	12	-	-	-	-	-	0	5	-	2.45	-		
Worthing ...		9	9	25	14.7	9.4	12.1	+0.3	17.8	10, 18, 23	5.0	14	12.8	13.6	1.94	66	.40	30	15	11	0	0	0	0	0	0	0	1	0	2.67	67	
Brighton ...		9	9	32	14.7	9.7	12.2	-	17.2	10, 23	5.6	3	-	-	13.9	1.90	67	.43	30	12	10	0	0	0	0	0	0	0	0	2.40	61	
Berkshire		East Grinstead ...	9	9	400	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
		Seaford ...	9	9	45	14.5	9.3	11.9	-	17.8	23	4.4	3	-	-	2.10	66	.38	20	12	10	-	-	-	-	-	0	0	-	-	2.28	59
		Eastbourne ...	9	9	23	14.4	9.9	12.1	+0.2	18.3	23	5.6	28	13.4	14.6	2.64	74	.45	3	12	11	0	0	0	0	0	1	0	0	0	2.60	65
	Eastbourne C/Guard	21-9	17	14.7	9.5	12.1	-	18.7	23	3.5	28	-	-	2.46	-	.52	3	12	10	0	0	0	0	0	0	1	0	0	0	-	-	
	Bexhill ...	9	9	12	14.2	8.9	11.5	-0.2	17.2	10	4.4	3.14	12.8	-	2.29	71	.51	3	11	9	0	0	0	0	0	3	0	0	0	2.66	69	
	Bodiam ...	9	9	73	14.7	6.5	10.6	-	18.9	23	1.1	3	12.5	13.4	1.95	-	.45	3	15	10	0	0	0	0	0	3	0	1	0	2.45	-	
	Hastings §§	9	9	149	14.2	9.3	11.7	-0.1	17.8	10	5.0	14	12.4	13.6	2.11	65	.58	3	13	10	0	0	0	0	0	1	0	0	0	2.63	67	
	Letcombe Regis	9	9	350	14.6	7.5	11.1	-	20.6	12	3.3	27	-	-	1.52	-	.48	31	13	10	0	0	0	0	0	1	0	-	0	-	-	
	Abingdon ...	21-9	210	14.8	7.9	11.3	-	22.2	12	2.3	2	-	-	-	1.81	74	.56	31	14	7	0	0	0	0	0	1	0	1	0	2.35	-	
	Compton ...	9	9	339	14.1	6.8	10.5	-	20.0	12	2.2	14, 27, 28	12.6	-	2.01	-	.															



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Percentage of Average			Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average				
				A Max.	B Min.		Maximum	Date	Minimum			Date	Amount														Date	0.1in. (0.2mm.) or more	0.01in. (0.2mm.) or more	
				ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%		
7a ENGLAND, N.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.															
Westmorland	Great Dun Fell	21-9	2780	7.1	2.8	4.9	-	13.2	28	-1.2	14	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
—cont.	Moor House	9 9	1825	9.2	3.7	6.5	-	12.2	22,23	-1.1	25	7.6	-	6.22	-	1.19	2	25	21	-	-	-	-	-	-	-	-	2.47	-	
Lancashire	Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Squires Gate	21-9	33	13.7	9.0	11.3	-	17.6	8	1.7	12	-	-	3.26	88	.73	2	17	14	0	0	0	0	0	0	0	0	2.65	86	
	Urswick	9 9	130	13.2	7.4	10.3	-	15.0	2,7,21	2.2	14	-	-	4.59	-	1.06	2	22	16	0	0	0	0	0	0	0	0	3	-	
	Southport	9 9	16	13.9	8.1	11.0	-	18.9	8	2.8	12	11.4	12.0	3.78	-	.65	31	17	16	-	-	-	-	-	-	-	0	2.88	-	
	Poulton-le-Fyde	9 9	38	14.2	8.3	11.3	-	17.8	8	3.3	12	-	-	3.32	-	.80	2	18	14	0	0	0	0	0	0	0	0	-	-	
	Grizedale	9 9	300	12.9	6.3	9.6	-	15.0	25	0.0	27	10.7	-	7.83	-	1.35	2	24	24	0	0	0	0	0	0	0	0	6	0	
	Speke	21-9	80	14.1	9.0	11.5	-	18.7	8	5.3	30	-	-	2.77	88	.68	31	18	14	0	0	0	0	0	0	0	0	1	2.81	
	Kirkham	9 9	78	13.9	-	-	-	17.8	8	-	-	-	-	3.57	86	.93	2	17	14	0	0	0	0	0	0	0	0	3	2.60	
	Garstang	9 9	68	13.7	7.9	10.8	-	18.3	8	3.3	14	-	-	3.66	-	.93	2	18	15	-	-	-	-	-	-	-	0	2.31	-	
	Morecambe	9 9	24	13.6	8.6	11.1	+0.6	17.2	8	5.6	27,30	-	-	4.03	96	1.24	2	20	16	0	0	0	0	0	0	0	0	2.01	67	
	Preston	9 9	108	13.8	8.2	11.0	-	18.3	8	2.2	12	-	-	3.69	87	.96	2	19	16	0	0	0	0	0	0	0	0	4	0	
	Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stonyhurst	9 9	377	13.3	6.9	10.1	+1.4	17.8	8	3.3	14	-	-	4.99	94	.80	2	19	16	-	-	-	-	-	-	-	0	2.35	85	
	Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Helmshore	9 9	854	11.9	6.7	9.3	-	16.1	8	3.9	27,30	9.5	-	4.84	75	.89	3	18	16	-	-	-	-	-	-	6	0	3	2.59	
	Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Burnley	9 9	655	12.3	6.9	9.6	-	17.2	8	2.8	14	10.2	-	3.46	-	.59	3	16	15	0	0	0	0	0	0	0	0	1	1.98	-
	Nelson	9 9	540	12.6	-	-	-	17.2	8	-	-	10.3	11.1	3.49	71	.53	3	17	15	-	-	-	-	-	-	1	-	2	2.17	-
	Rochdale	9 9	362	13.3	6.4	9.9	-	16.7	8,11	-0.6	27	-	-	3.43	-	.74	3	17	15	0	0	0	0	0	0	0	2	1	2	-
Cheshire	West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bidston Obs'y.	9 9	198	13.8	9.1	11.5	+1.2	18.3	8	5.0	31	-	-	2.57	85	.68	31	18	14	-	-	-	-	-	-	0	0	0	-	3.24
	Winnington	9 9	65	14.7	8.5	11.6	-	18.9	8,18	4.4	6	-	-	2.71	87	.85	31	17	14	0	0	0	0	0	0	0	0	1	1	-
	Knutsford	9 9	212	14.3	7.3	10.8	-	19.4	12	2.8	6	11.3	12.4	3.09	-	.58	31	17	15	-	-	-	-	-	-	-	0	0	3	-
	Ringway	21-9	248	13.5	7.9	10.7	+0.8	18.4	8	2.9	6	-	-	2.49	77	.38	3	17	15	0	0	0	0	0	0	0	0	0	2.66	96
	Macclesfield	9 9	500	13.6	7.0	10.3	+0.8	17.8	8	3.3	7	-	-	3.03	84	.59	3	17	14	0	0	0	0	0	0	0	0	-	-	-
7b NORTH WALES																														
Flint	Rhyl	9 9	31	14.8	8.6	11.7	+0.8	17.8	15	4.4	6,28	-	-	2.18	73	.71	31	18	9	0	0	0	0	0	0	0	0	0	3.51	112
	Prestatyn	9 9	12	-	-	-	-	-	-	-	-	-	-	2.37	77	.65	31	18	10	0	0	0	0	0	0	0	0	-	0	3.01
	Hawarden Bridge	9 9	17	(15.0)	(8.5)	(11.7)	+1.2	18.9	8	4.4	12,28	-	-	2.04	71	.55	31	14	9	0	0	0	0	0	0	0	0	0	-	-
Anglesey	Valley	21-9	26	13.9	9.6	11.7	+0.3	16.1	23	3.7	27	-	-	2.68	70	.38	30	19	15	0	0	0	0	0	0	0	0	1	0	2.85
Denbigh	Alwen	9 9	1100	12.1	5.1	8.6	-	16.1	8	0.0	6,22	-	-	2.83	-	.46	31	21	15	-	-	-	-	-	-	-	0	5	-	
	Ruthin	9 9	248	14.8	7.3	11.1	-	18.3	8	2.8	6,28	-	-	1.70	-	.61	31	20	11	-	-	-	-	-	-	-	0	-	-	
	Loggerheads	9 9	690	13.4	6.9	10.1	-	16.7	8	3.3	6	10.4	11.3	2.18	-	.71	31	16	11	0	0	0	0	0	0	0	0	3	0	1
	Bwlchwynn	9 9	1267	11.6	5.7	8.7	-	16.1	8	2.2	31	9.4	-	2.58	-	.73	31	20	15	0	0	0	0	0	0	0	0	3	0	2
	Wrexham	9 9	275	15.1	7.6	11.3	-	20.0	8	2.8	6	11.1	11.7	2.05	-	.74	31	17	10	0	0	0	0	0	0	0	0	9	0	-
Caernarvon	Bardsey Island	21-9	60	13.6	11.1	12.3	-	15.0	3,18	7.7	30	-	-	2.26	-	.38	19	16	12	-	-	-	-	-	-	-	1	0	0	-
	Botwnnog	9 9	112	14.1	8.7	11.4	-	16.1	3	3.9	14	12.2	12.7	3.29	-	.45	14	17	16	0	0	0	0	0	0	0	0	1	0	2.56
	Bryn Adda	9 9	275	14.5	8.2	11.3	-	17.2	22	4.4	6	-	-	3.31	-	.66	15	19	13	0	0	0	0	0	0	0	0	4	0	2.75
	Cwm Dyli	9 9	324	12.4	8.1	10.3	-	16.7	22	2.8	27,28	11.6	-	10.86	-	1.49	15	27	22	-	-	-	-	-	-	-	0	0	3	-
	Aber	9 9	60	15.4	9.1	12.3	+0.1	19.4	22	4.4	27	-	-	2.80	60	.49	15	16	14	0	0	0	0	0	0	0	0	2	0	2.74
	Llandudno	9 9	13	14.9	9.4	12.1	+0.7	18.3	7,8,15	5.6	6,12,28	-	-	2.09	65	.59	31	16	12	0	0	0	0	0	0	0	0	0	1	3.86
Merioneth	Llyn Stwlan	9 9	1656	10.8	5.1	7.9	-	14.4	24	2.8	9,14,28	-	-	8.66	-	1.43	15	25	23	-	-	-	-	-	-	-	0	2	-	-
	Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	5.61	-	.93	16	(22)	(19)	-	-	-	-	-	-	-	-	-	-	-
	Blaenau Ffestiniog	9 9	750	13.8	-	-	-	15.6	22,23,25	-	-	-	-	8.35	-	1.10														



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER October 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day	Precip'n			Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C			Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				A Max.	B Min.		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount			Date	-0.1in. (0.2mm.) or more	-0.1in. (1.0mm.) or more									in.	%				in.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.



[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS October 1963

DISTRICT, COUNTY AND PLACE			Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY					WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
												0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	210-430 yd.	440-1,090 yd.	1,100-2,190 yd.	2,200-4,390 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
																																8 or more	6, 4, 2	4, 2, 0	2, 0, 0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
																																				14 or more	12 to 13	10 to 11	8 to 9	6 to 7	4 to 5	2 to 3	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
2 ENGLAND, N.E.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Northumberland	Acklington	H	3	151	1013.5	-	8.6	0.7	10.2	90	4.7	4	6	6	4	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	6	20	0	0	0	0	2	9	6	10	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			9	151	1013.9	-	9.8	1.2	10.3	85	5.4	1	5	7	11	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	15	15	0	0	0	0	3	10	8	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			15	151	1012.9	-	12.3	2.2	10.6	74	6.2	1	0	7	18	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	20	9	0	0	0	4	5	11	8	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			21	151	1013.2	-	9.3	1.0	10.3	87	5.9	5	2	1	6	17	0	0	0	0	0	0	0	0	0	3	7	5	8	5	0	2	15	10	4	1	0	2	1	6	12	5	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
	Tynemouth	H	3	130	1014.2	-	9.9	1.2	10.4	84	5.4	6	1	3	10	11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	11	19	0	1	0	0	1	13	3	12	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			9	130	1014.4	+2.1	10.1	1.3	10.3	83	5.3	2	3	9	7	10	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	21	10	0	1	0	0	2	11	4	13	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			15	130	1013.5	-	12.7	2.6	10.5	72	5.9	1	1	8	15	6	0	0	0	0	0	0	0	0	2	4	10	10	5	0	4	17	10	0	1	0	1	4	7	4	14	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			21	130	1013.7	-	10.8	1.6	10.4	81	5.0	6	0	4	8	13	0	0	0	0	0	0	0	0	5	10	15	1	0	1	4	11	15	0	0	0	1	2	12	4	11	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Durham	Middleton St. George	H	3	118	1014.7	-	9.5	1.2	10.0	83	5.0	5	6	2	6	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8	21	2	0	0	0	0	1	16	7	4	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
			9	118	1015.3	-	10.3	1.6	10.0	79	5.2	1	5	7	11	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0	1	10	19	1	0	0	0	1	17	4	6	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			15	118	1014.2	-	12.9	3.0	10.0	67	6.3	0	1	7	14	9	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17	14	0	0	1	1	2	8	10	9	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			21	118	1014.6	-	10.4	1.7	9.9	78	5.6	5	2	3	9	12	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	19	1	1	1	1	3	12	7	5	0																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
Yorks., N. Riding	Dishforth ...	H	3	131	1015.3	-	9.0	0.9	10.2	88	5.1	3	7	4	13	0	0	0	0	0	0	0	0	0	2	1	9	4	4	7	0	4	26	1	1	0	0	7	7	5	8	2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			9	131	1015.9	-	10.1	1.3	10.3	83	5.8	1	4	4	14	8	0	0	0	0	0	0	0	1	2	9	6	4	4	5	0	11	20	2	0	1	5	11	3	8	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			15	131	1014.8	-	12.8	2.7	10.4	70	6.6	0	0	6	18	7	0	0	0	0	0	0	0	1	7	7	5	5	6	0	1	17	13	0	0	1	4	7	9	9	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
			21	131	1015.0	-	10.1	1.4	10.2	83	6.0	3	2	4	8	14	0	0	0	0	0	0	0	4	8	5	4	6	4	0	0	11	18	2	0	1	2	4	10	3	8	1																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	Whitby Coastguard	H	3	210	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-



DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)		VISIBILITY										WIND, NUMBER OF OBSERVATIONS																					
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																	
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,180 yd.	2,200-4,890 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
																														8 or more	6, 7	4, 5	1 to 3	Calm								
																														34 or more	22 to 33	11 to 21	1 to 10	0								
																														Speed in knots												
4 MIDLAND COUNTIES—cont.																																										
Northampton	Wittering	H	3	219	1017.5	-	-	8.6	0.5	10.4	92	5.9	5	2	1	5	17	1	0	0	0	1	5	19	4	1	0	0	0	6	25	0	0	1	1	3	4	9	10	3		
			9	219	1018.2	-	-	10.3	1.0	11.1	88	6.8	0	1	4	13	13	0	0	0	0	0	4	3	7	13	2	2	0	9	22	0	2	0	3	2	3	9	7	5		
			15	219	1016.6	-	-	13.2	2.2	11.4	75	6.5	1	2	3	15	10	0	0	0	0	0	1	4	5	11	8	2	0	13	18	0	1	1	3	2	3	9	3			
Warwick	Edgbaston	H	21	219	1017.2	-	-	9.5	0.7	10.8	89	5.3	4	5	3	5	13	1	0	0	0	0	3	5	19	2	1	0	0	7	22	2	0	0	1	4	4	10	8	2		
			9	542	1017.9	-	-	10.0	0.9	10.9	88	6.0	1	5	2	10	13	0	0	0	0	1	6	5	10	6	2	0	0	7	24	0	2	0	2	3	8	8	5			
			15	542	1016.7	-	-	12.9	2.4	10.9	73	6.4	1	1	5	10	14	0	0	0	0	0	3	2	14	9	3	0	0	9	22	0	1	0	2	4	7	8	8			
Elmdon	...	H	21	542	1017.0	-	-	10.2	1.2	10.7	85	4.8	5	5	4	12	0	0	0	0	0	1	3	16	8	0	0	0	0	2	29	0	0	0	2	3	9	10	6			
			3	362	1017.4	-	-	9.2	0.7	10.7	91	5.8	2	4	4	7	14	0	0	0	0	0	3	2	9	16	1	0	0	6	24	1	0	0	2	6	3	12	5			
			9	362	1018.0	-	-	10.4	0.9	11.2	89	6.5	1	2	3	12	13	0	0	0	0	1	13	12	4	0	0	0	0	11	18	2	2	0	3	3	9	4	5			
Shropshire	Shawbury	H	15	362	1016.7	-	-	13.1	2.2	11.4	75	6.7	1	1	3	12	14	0	0	0	0	0	5	12	12	2	0	0	0	17	12	2	1	0	3	4	7	8	4			
			21	362	1017.1	-	-	9.7	0.9	10.8	89	5.2	3	5	4	9	10	0	0	0	0	1	0	11	16	2	0	0	7	22	2	0	0	2	5	9	6	6				
			3	249	1016.5	-	-	9.2	0.5	10.9	93	6.0	3	2	4	8	14	0	0	0	0	0	1	4	5	2	7	11	7	0	6	23	2	0	2	5	10	3	7			
Worcester	Pershore	H	9	249	1017.1	-	-	10.6	1.0	11.4	88	6.0	1	3	4	17	6	0	0	0	0	1	1	4	4	12	7	2	0	11	16	4	1	0	1	6	7	8	3			
			15	249	1016.1	-	-	13.1	2.1	11.5	76	6.2	1	2	3	16	9	0	0	0	0	0	0	4	6	2	10	9	0	18	12	1	0	0	3	1	8	4				
			21	249	1016.2	-	-	9.9	0.8	11.1	90	6.0	1	3	6	9	12	0	0	0	0	0	0	2	6	1	6	15	1	0	7	23	1	0	0	3	8	7	7			
Hereford	Ross-on-Wye	H	3	117	1017.6	-	-	9.6	0.7	10.9	91	5.4	3	4	6	5	13	0	0	0	0	0	1	3	7	9	9	2	0	6	21	4	0	1	1	4	7	11	2			
			9	117	1018.2	-	-	10.8	1.0	11.5	87	6.4	0	4	1	16	10	0	0	0	0	1	2	3	7	12	3	0	8	19	4	0	2	2	1	8	9	4				
			15	117	1016.8	-	-	13.9	2.5	11.5	72	6.2	3	1	3	12	12	0	0	0	0	0	0	3	7	7	10	4	0	15	15	1	0	1	1	4	8	9				
Gloucester	Filton	H	21	117	1017.3	-	-	10.3	1.0	11.1	88	5.1	4	6	1	8	12	0	0	0	0	0	2	3	7	11	8	0	0	3	23	5	0	1	2	2	9	9	3			
			9	226	1017.5	+2.7	-	13.3	2.2	11.5	75	6.6	0	3	8	7	13	0	0	0	0	0	2	3	12	4	9	1	0	3	27	1	0	1	3	3	6	10	5			
			15	226	1016.6	-	-	13.5	2.3	11.6	75	6.6	1	1	3	11	15	0	0	0	0	0	0	2	9	5	13	2	0	5	23	3	1	1	2	2	5	9	6			
Gloucester	Gloucester	H	21	226	1017.0	-	-	10.6	1.0	11.3	87	5.5	2	7	2	5	14	1	0	0	0	0	1	14	3	10	2	0	2	27	2	0	0	2	4	8	11	4				
			3	197	1017.8	-	-	10.5	0.8	11.6	91	6.2	2	4	1	8	15	1	0	1	0	0	3	1	13	12	1	0	0	5	22	4	1	0	3	4	6	7	5			
			9	197	1018.4	-	-	11.6	1.0	12.0	87	6.4	1	4	1	12	13	0	0	0	0	0	3	6	12	8	2	0	0	8	21	2	0	1	5	4	5	7				
Little Rissington	H	15	197	1017.2	-	-	13.4	1.8	12.4	80	7.0	1	0	3	12	15	0	0	0	0	0	1	5	10	8	5	2	0	11	19	0	1	1	3	4	5	10	7				
		21	197	1017.5	-	-	11.0	0.8	11.9	89	5.6	5	2	4	4	16	0	0	0	0	0	2	7	16	5	1	0	0	3	25	3	0	0	3	4	5	8	7				
		3	79	1018.0	-	-	10.5	1.0	11.3	88	5.7	3	2	6	14	14	0	0	0	0	0	3	3	13	8	4	0	0	6	21	4	0	1	1	12	10	3					
Middlesex	London (Heathrow) Airport	H	9	79	1018.5	-	-	11.5	1.2	11.7	85	6.5	1	3	1	10	15	1	0	0	0	1	4	12	7	3	3	0	6	21	4	1	0	3	2	8	11	1				
			15	79	1017.3	-	-	14.3	2.5	11.9	73	6.5	1	2	3	14	11	0	0	0	0	0	4	9	6	6	6	0	10	19	2	0	2	1	3	6	12	2				
			21	79	1017.6	-	-	11.2	1.1	11.6	86	5.3	4	6	2	5	14	0	0	0	0	1	2	7	11	5	5	0	0	5	23	3	1	0	2	4	6	12	2			
Surrey	Kew Observatory	H	3	751	1018.0	-	-	8.6	0.4	10.7	96	6.3	2	3	2	4	14	6	0	2	3	1	2	4	5	8	4	2	0	6	24	1	1	0	2	3	6	7				
			9	751	1018.6	-	-	9.7	0.5	11.3	93	6.7	1	2	2	10	12	4	0	3	2	2	3	2	8	3	5	3	0	11	19	1	1	1	2	7	8	3				
			15	751	1017.2	-	-	12.2	1.7	11.4	80	6.3	3	0	3	11	14	0	0	0	0	0	1	5	7	9	6	3	0	16	14	1	2	0	2	6	9	5				
Kent	Deal	H	21	751	1017.6	-	-	9.4	0.5	11.1	93	5.5	3	7	0	3	16	2	0	3	0	2	5	6	8	6	1	0	11	18	2	1	0	2	2	7	6	6				
			3	86	1018.4	-	-	9.7	0.6	11.2	92	6.5	2	1	3	9	16	0	0	0	0	2	4	12	8	3	0	0	1	28	2	1	0	4	2	3	9	9				
			9	86	1019.0	-	-	11.2	1.0	11.7	87	6.4	0	4	4	10	13	0	0	0	0	0	3	6	13	6	3	0	0	5	26	0	3	0	3	3	7	6	9			
Sussex	Thorney Island	H	15	86	1017.9	-	-	13.8	2.3	11.8	75	6.3	3	1	3	9	15	0	0	0	0	0	3	10	13	4	1	0	10	20	1	0	2	2	3	7	9	6				
			21	86	1018.1	-	-	10.7	0.9	11.5	89	5.7	5	1	3	8	14	0	0	0	0	4	5	15	7	0	0	0	3	27	1	1	1	3	3	8	9	4				
			9	34	1019.0	-	-	11.6	1.3	11.4	84	6.7	0	1	5	11	14	0	0	0	0	0	1	6	9	10	2	3	0	4	26	1	1	2	3	1	5	10	8			
Berkshire	Abingdon	H	15	34	1017.8	-	-	13.6	2.4	11.4	73	6.2	2	2	15	10	0	0	0	0	0	0	3	10	8	7	3	0	13	17	1	2	1	2	1	6	12	5				
			21	34	1018.1	-	-	11.1	1.1	11.5	87	5.3	5	3	4	6	13	0	2	0	2	0	0	12	10	5	0	0	3	26	2	1	0	4	3	6	9	6				
			3	195	1018.8	-	-	8.8	0.4	10.9	95	5.8	3	3	3	8	11	3	0	2	1	2	1	3	9	9	4	0	0	1	27	3	1	2	4	3	2	10	5			
Hampshire	Hurn	H	9	195	1019.4	-	-	10.9	0.7	12.0	91	6.5	0	3	4	8	15	1	0	0	0	2	7	8	11	2	1	0	5	24	2	3	1	5	0	8	6	5				
			15	195	1018.4	-	-	13.1	1.7	12.3	81	6.1	1	4	3	9	14	0	0	0	0	0	2	16	8	4	1	0	11	20	0	1	2	2	1	7	10	5				
			21	195	1018.5	-	-	9.7	0.5	11.5	95	5.1	6	3	2	8	11	1	0	2	1	3	1	4	12	5	3	0	0	3	25	3	0	1	2	2	8	9	6			
Wiltshire	Lyneham	H	3	34	1018.9	-	-	10.6	0.8	11.7	90	4.9	8	1	3	7	12	0	0	0	0	0	4	9	17	1	0	0														



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS October 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)		VISIBILITY										WIND, NUMBER OF OBSERVATIONS																
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION												
											0	1	2	3	4	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
																										6	4	1	3	0								
																										7	5	3	2	1								
7a ENGLAND, N.W.																																						
Cumberland Carlisle ... H	3	92	1014.5	-	9.4	1.0	10.3	87	5.3	4	6	2	6	13	0	0	0	0	0	0	4	9	13	5	0	0	0	8	20	3	1	1	3	4	2	12	5	0
	9	92	1014.7	-	10.4	1.4	10.5	82	6.0	1	2	4	19	5	0	0	0	0	0	2	7	10	10	2	0	0	0	12	17	2	0	1	5	3	5	10	4	1
	15	92	1014.0	-	12.2	2.0	10.8	75	6.6	1	1	1	18	10	0	0	0	0	0	2	6	13	7	3	0	1	13	15	2	0	0	3	3	5	12	6	0	
	21	92	1014.1	-	9.9	1.2	10.5	85	6.0	3	4	0	8	16	0	0	0	0	0	1	3	11	11	4	1	0	0	4	24	3	0	1	4	5	1	10	7	0
Lancashire Squires Gate H	3	35	1015.1	-	10.3	0.8	11.4	90	5.8	1	5	5	6	14	0	0	0	0	0	0	11	6	9	5	0	0	3	20	7	1	0	0	3	8	3	5	8	3
	9	35	1015.7	-	11.2	1.1	11.6	86	6.7	0	2	1	17	11	0	0	0	0	0	1	10	7	7	6	0	0	4	15	10	2	1	0	4	5	7	2	9	1
	15	35	1015.0	-	12.6	1.7	11.7	80	6.6	0	1	4	17	9	0	0	0	0	0	1	6	4	8	10	2	0	4	20	7	0	0	1	2	6	3	8	9	2
	21	35	1014.7	-	10.8	0.9	11.5	88	6.3	3	2	1	10	15	0	0	0	0	0	3	8	9	8	3	0	0	3	17	10	1	0	0	5	4	6	5	8	2
Speke ... H	3	85	1015.9	-	10.6	1.0	11.2	87	6.4	1	1	5	12	12	0	0	0	0	0	2	4	5	14	6	0	0	0	13	17	1	1	0	1	7	6	5	8	2
	9	85	1016.5	-	11.2	1.4	11.2	83	6.1	2	2	4	10	13	0	0	0	1	4	3	21	1	0	0	0	0	0	13	17	1	0	0	3	5	8	6	6	2
	15	85	1015.7	-	13.2	2.4	11.1	73	6.3	0	3	6	12	10	0	0	0	1	0	4	5	9	3	0	1	1	20	7	3	0	0	1	6	4	5	10	2	
	21	85	1015.6	-	11.3	1.5	11.1	83	6.3	2	2	4	10	13	0	0	0	1	4	3	21	1	0	0	0	0	0	13	17	1	0	0	3	5	8	6	6	2
Cheshire Ringway H	3	251	1015.9	-	9.6	1.0	10.4	87	5.9	4	2	4	4	17	0	0	0	0	0	3	13	10	5	0	0	0	10	20	1	1	0	1	13	4	4	7	0	
	9	251	1016.5	-	10.4	1.5	10.4	82	6.3	1	1	3	16	10	0	0	0	0	0	8	16	5	2	0	0	0	12	17	2	1	0	1	3	15	5	4	0	
	15	251	1015.5	-	12.8	2.8	10.1	69	6.4	2	2	1	13	13	0	0	0	0	1	7	4	13	6	0	0	1	17	12	1	0	0	2	3	10	7	8	0	
	21	251	1015.6	-	10.2	1.4	10.3	83	5.8	3	4	1	10	13	0	0	0	0	1	6	18	5	1	0	0	0	7	24	0	0	0	4	4	17	2	4	0	
7b NORTH WALES																																						
Anglesey Valley ... H	3	29	1015.3	-	10.9	0.8	11.8	89	6.2	2	3	3	6	17	0	0	0	0	0	3	3	17	7	1	0	4	19	5	3	0	0	2	2	10	4	5	5	
	9	29	1015.8	+2.6	11.7	1.0	12.3	88	6.3	1	4	4	19	5	1	0	0	0	1	0	8	6	10	5	0	8	12	9	2	1	0	3	2	10	5	7	1	
	15	29	1015.1	-	12.8	1.6	12.2	82	6.3	0	3	4	16	8	0	0	0	0	0	1	8	7	7	0	0	5	22	3	1	0	1	1	13	7	6	1		
	21	29	1014.9	-	11.3	0.9	12.0	89	6.0	1	2	8	7	13	0	0	0	0	0	3	7	8	10	3	0	5	18	8	0	0	0	4	2	11	6	6	2	
8a SOUTH WALES																																						
Cardigan Aberporth H	3	382	1016.5	-	10.8	0.9	11.6	88	5.8	2	5	3	5	16	0	0	0	0	0	1	9	6	13	2	0	2	19	10	0	0	0	1	3	13	4	5	5	
	9	382	1017.0	-	11.5	1.2	11.7	86	6.4	0	3	2	19	7	0	0	0	0	0	4	4	8	9	6	0	3	19	9	0	0	0	1	5	14	2	6	3	
	15	382	1016.2	-	12.4	1.8	11.5	79	6.7	0	1	4	14	12	0	0	0	0	0	0	8	4	13	6	0	3	21	7	0	0	2	1	3	12	3	7	3	
	21	382	1016.1	-	11.0	1.1	11.4	86	6.1	2	3	2	9	15	0	0	0	0	0	1	9	7	12	2	0	1	23	7	0	0	0	0	4	15	3	6	3	
Glamorgan Mumbles Head H	3	123	1017.5	-	11.8	0.9	12.5	90	5.9	2	5	2	6	16	0	0	0	0	0	2	8	15	6	0	0	2	17	9	3	0	0	5	2	4	4	12	1	
	9	123	1017.8	-	11.9	1.0	12.4	88	6.3	0	2	6	14	9	0	0	0	0	1	2	14	12	2	0	0	3	15	12	1	1	2	6	3	0	7	8	3	
	15	123	1016.9	-	13.0	1.5	12.3	82	6.8	0	1	4	12	14	0	0	0	0	0	3	10	14	4	0	1	8	16	5	1	0	0	5	3	1	7	10	3	
	21	123	1017.0	-	12.2	1.2	12.3	85	6.6	1	3	1	9	17	0	0	0	0	0	1	8	10	11	1	0	3	18	9	1	0	0	6	2	2	8	11	1	
Rhoose ... H	3	225	1017.9	-	10.8	0.6	12.0	92	6.1	3	4	1	5	18	0	0	0	0	0	5	7	8	9	2	0	1	9	17	4	0	0	5	1	3	5	7	6	
	9	225	1018.5	-	11.6	0.8	12.3	89	6.2	0	3	5	13	10	0	0	0	0	0	4	8	10	9	0	0	12	17	2	1	1	4	5	2	6	4	4		
	15	225	1017.3	-	13.1	1.5	12.6	84	6.7	1	1	3	12	14	0	0	0	0	1	8	4	6	9	3	0	3	17	10	1	1	0	5	4	2	3	14	1	
	21	225	1017.6	-	11.3	0.9	12.0	89	6.3	2	1	5	8	15	0	0	0	0	0	2	5	14	8	2	0	1	13	16	1	0	0	2	5	3	5	9	6	
8b ENGLAND, S.W.																																						
Dorset Portland Bill H	3	35	-	-	-	-	-	-	5.9	4	1	6	2	18	0	0	0	0	0	0	6	4	0	21	0	1	8	21	1	1	1	2	2	6	2	14	2	
	9	35	1019.0	-	13.1	1.1	13.2	87	6.6	1	0	5	8	17	0	0	0	0	0	0	9	2	8	12	0	2	12	16	1	2	2	3	1	4	4	11	3	
	15	35	1018.1	-	-	-	-	-	6.9	1	1	3	6	20	0	0	0	0	0	0	1	8	5	4	13	1	1	12	17	0	0	2	3	5	4	12	2	
	21	35	1018.0	-	13.1	1.1	13.2	87	5.7	5	1	4	4	17	0	0	0	0	0	0	4	7	3	17	0	1	16	1										
Devon Hartland Pt. H	3	306	1017.0	-	11.9	0.9	12.4	89	5.2	5	4	5	4	13	0	0	0	0	0	3	0	6	12	7	3	0	8	16	7	0	2	0	1	3	6	4	11	4
	9	306	1017.1	-	12.1	1.1	12.3	87	6.5	0	1	8	12	12	0	0	0	0	0	1	9	9	8	4	1	6	15	9	0	3	0	6	1	7	3	7	4	
	15	306	1016.5	-	12.8	1.2	12.7	85	6.5	0	1	6	15	9	0	0	0	0	1	6	10	8	6	0	4	19	8	0	0	1	2	2	4	5	13	4		
	21	306	1016.8	-	12.1	1.1	12.0	87	6.3	1	3	4	9	14	0	0	0	0	0	5	15	5	6	0	4	22	5	0	0	0	2	3	4	6	14	2		
Mount Batten H	3	100	1018.8	-	11.6	0.4	13.0	94	6.7	2	2	2	4	20	1	0	2	2	4	16	7	0	0	0	0	13	16	2	0	3	4	2	6	5	7	2		
	9	100	1019.3	+4.0	12.1	0.6	13.1	92	6.5	0	4	2	12	11	2	0	2	0	1	9	12	5	2	0	0	13	17	1	0	3	5	5	4	6	5	2		
	15	100	1018.2	-	13.4	1.2	13.4	87	7.0	0	1	3	9	17	1	0	0	1	2	7	8	6	2	0	1	19	11	0	0	4	3	5	9	7	3			
	21	100	1018.4	-	11.9	0.6	12.9	92	5.6	2	4	4	7	14	0	0	0	0	1	3	17	10	0	0	0	11	18	2	0	0	5	1	4	6	7	6		
Chivenor ... H	3	23	1018.3	-	11.6	0.8	12.3	90	6.1	4	1	3	8	15	0	0	0	0	1	4	5	8	9	4	0	3	14	10	4	2	0	5	5	4	3	4	4	
	9	23	1018.7	-	12.2	1.0	12.6	88	6.6	0	2	4	14	11	0	0	0	0	3	5	9	5	0	0	3													



TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, October

1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	204	2	17	30	96.2	31	115	3, 17	17	29, 30	68.4	31	236	2	20	29	108.5	31
Eskdalemuir Observatory ...	311	2	21	21	136.5	31	150	10	20	31	84.1	31	348	2	27	21, 31	155.4	31
Cambridge ...	300	9	24	31	151.9	31	166	10	24	31	100.3	31	-	-	-	-	-	-
Kingsway ...	314	9	23	31	144.2	31	160	10	23	31	95.2	31	345	9	26	31	159.9	31
Kew Observatory ...	355	4	31	31	147.6	31	146	10	30	31	90.8	31	375	4	35	31	159.8	31
Aberporth ...	383	4	56	5	158.6	31	162	13	56	5	108.2	31	-	-	-	-	-	-

TABLE VIII—NUMBER OF DAYS IN October 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								STATION	MINIMUM TEMPERATURE °C.							
	0.0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°		0.0° or less	0.1° to 5.0°	5.1° to 10.0°	10.1° to 15.0°	15.1° to 20.0°	20.1° to 25.0°	25.1° to 30.0°	Above 30.0°
Lerwick Observatory ...	0	0	14	17	0	0	0	0	0	0	0	0	7	24	0	0	0
Stornoway ...	0	0	2	29	0	0	0	0	0	0	0	0	9	18	4	0	0
Craibstone ...	0	0	7	20	4	0	0	0	0	0	0	0	12	19	0	0	0
Rothsay ...	0	0	0	30	1	0	0	0	0	0	0	0	1	27	3	0	0
Renfrew ...	0	0	0	1	27	3	0	0	0	0	0	0	6	18	7	0	0
Eskdalemuir Observatory ...	0	0	3	28	0	0	0	0	0	0	0	1	14	15	1	0	0
Douglas ...	0	0	0	31	0	0	0	0	0	0	0	0	0	27	4	0	0
Cockle Park ...	0	0	3	22	6	0	0	0	0	0	0	0	13	17	1	0	0
Gorleston ...	0	0	0	23	7	1	0	0	0	0	0	0	3	20	8	0	0
Cambridge ...	0	0	2	20	8	1	0	0	0	0	0	0	7	21	3	0	0
Edgbaston ...	0	0	2	20	9	0	0	0	0	0	0	0	0	0	0	0	0
Kew Observatory ...	0	0	1	20	10	0	0	0	0	0	0	0	0	0	0	0	0
Hastings ...	0	0	1	25	5	0	0	0	0	0	0	0	0	0	0	0	0
Southampton ...	0	0	0	16	15	0	0	0	0	0	0	0	0	0	0	0	0
Stonyhurst ...	0	0	2	24	5	0	0	0	0	0	0	0	0	0	0	0	0
Bidston ...	0	0	0	23	8	0	0	0	0	0	0	0	0	0	0	0	0
Valley ...	0	0	0	28	3	0	0	0	0	0	0	0	0	0	0	0	0
Falmouth ...	0	0	0	24	7	0	0	0	0	0	0	0	0	0	0	0	0
Aldergrove ...	0	0	0	28	3	0	0	0	0	0	0	0	0	0	0	0	0
Armagh ...	0	0	0	24	7	0	0	0	0	0	0	0	0	0	0	0	0

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum			Total Fall	Per-centage of Average			Most in a day		Precip'n	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 0° C.	Gale	Daily Mean	Per-centage of Average			
				A Max.	B Min.		Maximum	Date	Minimum			Date	Amount	Date	-0.1in.(0.2mm.) or more													-0.1in.(1.0mm.) or more		
				Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.		in.									hr	%		
1962		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.									hr	%						
April	Belper	9 9	203									2.65																		
1963		9 9	611											(2.20	14)															
April	Trawsfynydd	9 9	203	15.3	5.9	10.6	-0.7		0.6	4																				
May	Belper	9 9	109																											
"	Dale Fort	9 9	200	15.9	9.6	12.7	-0.6	23.9	11	6.1	4	-	3.70	-	.90	18	19	14	0	0	0	0	0	0	6.92	-				
"	Liberton	9 9	32	17.8	10.3	14.1	-	26.1	1	8.3	23	-	4.62	-	.55	23	17	15	-	0	-	-	-	0	0	4.76	-			
"	Aberystwyth	9 9	109											2.00	152	.64	17								5.99	91				
"	Brighton	9 9	230	17.4	8.8	13.1	-	25.0	30	5.0	21	-	3.53	-	1.00	14	17	14	-	0	-	-	-	0	0	-	-			
"	Callander	9 9	16	16.4	11.2	13.8	-	22.2	31	7.8	18	-	3.66	108	.95	4	19	13	0	0	0	0	3	0	0	-	-			
"	Willport	9 9	429	19.7	11.0	15.3	-1.0	27.2	30	7.8	13, 27	15.4	12.6	2.70	98	.95	6	10	9	0	0	0	0	4	-	0	5.59	105		
"	Sheffield	9 9	26																											
"	Inverlmond	9 9	1007											2.89	69	.55	1	15	15											
"	Buxton	9 9	203	20.1	9.4	14.7	-1.5		25.0	23, 30	7.2	6, 13, 26	-	1.62	-	.67	6	9	8	0	0	0	0	0	0	1	0	-	-	
"	Belper	9 9	298	19.8	9.5	14.7	-		25.0	22	11.1	14	-	1.25	57	.63	6	10	4	0	0	0	0	0	0	0	-	7.78	111	
"	Chesterfield	9 9	80	18.8	13.6	16.2	-	22.2					-	1.25	57	.63	6	10	4	0	0	0	0	0	0	0	-	7.78	111	
"	Ramsgate	9 9	1825										-	1.25	57	.63	6	10	4	0	0	0	0	0	0	0	-	7.78	111	
"	Woor House	9 9	854										-	2.32	49												-	-		
"	Heleshore	9 9	680	18.4	10.4	14.1	-1.1	25.0	21	4.4	26	-	-	1.49	56	.52	6	11	10	-	0	-	-	-	0	0	-	-		
"	Shaftesbury	9 9	18	-	12.6	-	-	-	-	-	7.2	26	-	1.97	-	.78	6	11	8	0	0	0	0	0	0	0	0	7.30	106	
"	Poole	9 9	15										-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
"	Ballyhalbert	9 9	200	16.6	10.1	13.3	-1.3	22.2	1	2.8	29	-	-	5.70	-	1.40	16	21	16	0	0	0	0	0	0	0	0	3.50	-	
"	Liberton	21 9	65	14.8	10.1	12.5	-	18.5	4	6.0	14	-	-	2.67	-	.55	9	17	14	0	0	0	0	0	0	0	0	-	-	
"	Rhuvaal	9 9	39	18.8	11.1	14.9	-	25.0	1	7.2	7, 15, 20	16.8	14.9	2.95	-	.80	13	19	13	0	0	0	0	0	3	0	0	4.01	-	
"	Hempstead	9 9	157																											
"	Sutton Bonington	9 9	440	18.8	-	-	-	25.0	1, 2	-	-	17.7	15.6	-	-	-	-	-	-	-	-	0	-	-	-	0	-	3.65	71	
"	East Grinstead	9 9	510	18.2	9.8	14.0	-	24.4	1	5.0	29	-	-	3.53	-	1.19	3	18	15	0	0	0	0	0	2	1	0	0	-	-
"	Chiseldon	9 9	33	17.5	10.7	14.1	-	22.2	1	5.0	15	-	-	3.79	-	.93	16	20	15	0	0	0	0	0	0	0	0	-	-	
"	Newry Abbey	9 9	202	18.3	11.7	15.0	-1.5	25.0	1	8.3	29	16.4	15.1	5.47	141	1.01	15	20	18	0	0	0	0	0	0	0	0	5.21	87	
"	Cardiff	9 9	203											23.02	80															
1962 Annual	Belper	9 9	203											23.02	80															

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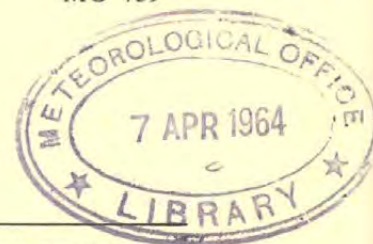


# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*

MO 739



Volume 80 Number 10

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### November 1963 — *Very wet, mild in England and Wales*

Weather was cyclonic in character throughout the month.

The complex area of low pressure to the west and south-west of the British Isles at the end of October continued during the first five days of November. South-easterly winds gave generally mild weather with occasional rain or showers and scattered thunderstorms. Pressure became almost uniform over the country on the 6th and the resulting light winds allowed overnight fog to persist for much of the day in many districts.

The next day winds in the south freshened from a westerly point as a newly formed depression moved from south-east England northward into the North Sea. Weather was dull with occasional rain as a trough moved eastward along the English Channel and rain became widespread that night, and heavy at times in the west, as a small depression from the Atlantic crossed central England. Weather remained dull and wet in Scotland throughout the 8th, but in southern England cloud was well broken and there were long periods of sunshine.

On the 9th a depression from the west of Spain moved north-eastwards towards our south-west coasts deepening rapidly. Winds backed to south and weather during the next few days became gradually milder with afternoon temperatures in the south-west reaching 16°C locally. Occasional rain reached parts of southern England during the morning of the 9th becoming widespread and locally heavy that night and continuing in most districts throughout the 10th and 11th. Winds reached gale force at times and more than one inch of rain fell over large areas of western Scotland on the 10th, 2.9 inches being measured in Ayrshire. By the 12th the depression was centred over Scotland; in the north rain continued locally heavy — at Great Langdale, Westmorland, 4.3 inches fell in 12 hours — but in southern England weather was dry with  $7\frac{1}{2}$  hours of sunshine at some south-east coast resorts.

On the 13th a complex depression lay to the north of the British Isles with centres to the south of Iceland and over southern Scandinavia. Showers became fairly widespread in a cold westerly airstream; over Scotland and locally in northern England and the Midlands they were of sleet or snow. This was the beginning of a cold showery spell which lasted nearly a week in Scotland but only about four days in England and Wales, with fairly widespread morning frost in the Midlands on the 14th, 16th and 17th. Milder weather with widespread rain reached southern and central England on the 17th as a deep depression approached Northern Ireland from the Atlantic; rain was heavy in western districts with falls of more than 2 inches at a number of places in South Wales, and in Scotland there were heavy falls of snow. Stormy wet weather continued on the 18th and 19th with gusts reaching 73 kt at places as far apart as Edinburgh, Rhooose and Shoburyness. Brighter colder weather with northerly winds spread temporarily to all districts on the 20th.

A complex depression between Scotland and Iceland brought a return of mild, wet and stormy weather on the 21st; wind reached 88 kt and 76 kt at Lowther Hill and Ballykelly respectively. After a showery day on the 22nd, a depression off western Ireland brought three wet and stormy days with rainfall exceeding 1 inch in parts of Scotland on the 23rd and with wind reaching gale force in the English Channel on the 24th and 25th. The depression declined and moved across England to the North Sea with occasional rain on the night of

25th/26th and the next day was generally bright with scattered showers in the west although rain lingered on in the east. The last three days of the month were dull and rather cold with persistent slight rain or drizzle as fronts became slow-moving over the British Isles.

**Pressure and Wind** — Mean pressure was everywhere below the average, the deficit at 9 hr ranging from 7.6 mb at Lerwick to 13.7 mb at Valley. Surface winds were south-easterly at first becoming light and variable on the 6th and thereafter mainly west to south-west except for periods of rather variable winds on the 15th and 16th and during the last six days of the month. Winds reached gale force on 21 days in Scotland and daily in England and Wales except 9th and 27th-29th. Gales were widespread on the 11th, 12th, 18th and 21st.

**Temperature** — Mean temperature was 1.3°C above the 1931-60 average in England and Wales, 0.3°C below the average in Scotland and equal to the average in Northern Ireland. Temperature was above the average during the first, second and fourth weeks, and below, especially in Scotland during the third week and last two days of the month.

Extremes included: (England and Wales) 17.8°C at Compton on the 10th, -7.2°C at Kielder Castle on the 17th and at Caldecott on the 21st; (Scotland) 15.0°C at Balnacara and at Poolewe on the 1st, -11.7°C at Braemar on the 21st; (Northern Ireland) 14.6°C at Ballykelly on the 6th, -6.1°C at Knockmany Forest on the 17th.

It was the mildest November in Worthing since records began in 1905.

**Precipitation** — The general precipitation expressed as a percentage of the 1916-50 average was 161 over England and Wales, 155 over Scotland and 163 over Northern Ireland. All districts had more than average rainfall and more than twice the average fell in Dartmoor, on the eastern part of the south coast around Southsea, on the Pennines and in the northern part of Northumberland. Parts of Kent had more than 250 per cent of the overage.

It was the wettest November at Edinburgh since at least 1770 and the Marchmont and Kelso since 1888.

Thunder was heard in Scotland on 6 days and in England and Wales on the 5th-7th, 11th, 13th, 15th-20th, 24th, 25th and 30th.

Snow and sleet fell in Scotland on the 8th-10th and 12th-23rd ground being snow covered in many areas on the 14th-21st, 23rd and 24th. There was snow in parts of England and Wales on the 11th-17th and 20th-22nd, ground being snow covered in parts of the Pennines on the 16th, 17th, and 20th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 97 over England and Wales, 88 over Scotland and 100 over Northern Ireland. In Scotland sunshine amounts were above average only locally in the west and north. In England and Wales it was generally more sunny in the south than in the north, percentages ranging from 132 at Valley to 64 at Cockle Park.

**Fog** was observed at 9 hr on 25 days in Scotland and daily in England and Wales except the 8th, 14th, 20th, 22nd and 26th, it was widespread on the 6th.

**Miscellaneous Phenomena** — The aurora was visible in Scotland on 7 nights. Waterspouts were observed at Exmouth on the 5th and at Monmouth on the 7th.



TABLE I—DISTRICT VALUES— November 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N.	°C. 15.0	°C. -10.0	°C. -0.6	°C. -0.4	°C. -0.5	°C. —	°C. —	% 139	+1	% 85
Eastern										
1 SCOTLAND, E.	13.3	-11.7	-0.7	+0.2	-0.3	—	—	223	+8	85
2 ENGLAND, N.E.	15.0	-7.2	+0.5	+1.0	+0.8	+2.0	+0.5	157	+7	83
3 ENGLAND, E.	16.7	-5.6	+1.5	+1.3	+1.4	+1.4	+0.3	122	+4	97
4 MIDLAND COUNTIES	16.7	-7.2	+1.3	+1.4	+1.4	+1.5	+0.9	173	+7	94

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
5 ENGLAND, S.E.	°C. 17.8	°C. -2.8	°C. +1.7	°C. +2.0	°C. +1.9	°C. +1.3	°C. +0.4	% 175	+8	% 104
Western										
6 SCOTLAND, W.	14.4	-10.0	-0.1	-0.1	-0.1	+0.9	+0.5	132	+2	94
7 ENGLAND, N.W. (and N. Wales)	16.1	-8.3	(+0.8)	(+0.9)	(+0.9)	+1.4	+1.3	162	+6	94
8 ENGLAND, S.W. (and S. Wales)	17.2	-1.7	+1.1	+1.5	+1.3	+1.8	+0.7	201	+9	104
NORTHERN IRELAND	14.6	-6.1	+0.2	-0.2	0.0	-	-	163	+1	100

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— November 1963 (1914)

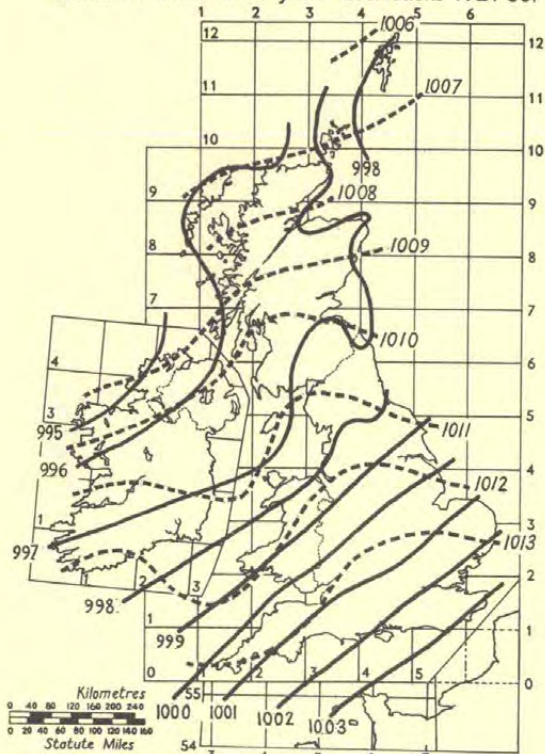
DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Mean Hourly Wind Speed	Highest Velocities					
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Highest Hourly Wind			Highest Gust					
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Veer from N.	Speed	Hour ended at		Speed	Day and Time				
		ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	knots	°	knots	day hr.	knots	day	h.m.		
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	8, 11, 15, 21, 22, 24	27	19	149	315	174	55	0	15.5	270	38	22	01	58	21 2345	
	Orkney	Kirkwall	134	50	33	-	0	18	100	344	233	43	0	13.1	270	33	13	11	60	27 0400	
	Caithness	Dounreay	110	39	30	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	1, 10-13, 17, 20-22, 24	48	25	215	284	106	67	0	18.2	200	46	21	06	72	22 0115	
	Inverness	Duirinish	125	65	55	12, 13	3	12	83	237	296	101	0	11.0	280	37	12	24	62	21 1430	
	Benbecula		69	51	35	10-13, 17, 18, 21	50	23	204	284	107	75	0	17.7	290	44	12	23	71	22 0115	
1	Moray	Lossiemouth	101	80	60	-	0	8	38	183	351	146	2	8.6	270	28	22	04	57	22 0425	
	Aberdeen	Dyce	225	40	40	-	0	3	15	110	302	293	0	5.9	290	27	22	16	41	13 0310	
	Angus	Auchterhouse	822	62	50	-	0	9	45	216	302	134	23	9.6	260	30	13	03	46	13 0345	
	Bell Rock Lighthouse		128	131	124	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Perth	Rannoch	1006	56	57	13, 22	4	9	74	238	216	176	12	10.4	270	37	22	05	58	22 0640	
	Fife	Leuchars	78	40	40	-	0	9	64	180	353	123	0	9.7	250	30	13	02	49	21 1900	
	Midlothian	Turnhouse	137	40	33	-	0	6	59	158	367	136	0	8.9	230	32	12	21	57	21 1615	
	Edinburgh, Blackford Hill		496	50	34	21	4	8	67	201	322	119	7	9.7	180	46	21	08	73	21 0740	
6a	Argyll	Tiree	89	60	47	10, 12, 13, 17, 19-22, 24	43	19	194	219	188	76	0	16.1	300	41	12	19	68	22 0200	
	Bute	Millport	50	34	34	10, 17, 18	20	15	70	225	184	184	37	11.1	060	46	10	16	65	10 1605	
	Renfrew	Paisley	188	81	31	-	0	0	0	117	314	289	0	5.7	250	21	21	17	56	21 1850	
	Renfrew		71	41	39	-	0	4	20	172	329	199	0	7.2	270	26	21	19	54	21 1815	
	Lanark	Lowther Hill	2412	43	33	4, 10-13, 17 **	80	15	146	298	148	48	0	17.7	290	59	21	22	88	21 2055	
	Ayr	Prestwick Airport	68	33	33	12	1	8	48	229	322	120	0	10.1	270	34	12	18	57	21 2030	
	Dumfries	Eskdalemuir Observatory	825	50	35	-	0	3	6	129	275	310	0	5.9	270	24	12	20	58	21 2130	
	Wigtown	West Freugh	83	33	33	12, 21	5	12	88	267	221	139	0	11.5	270	37	21	21	67	21 2040	
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	10, 11, 12, 17, 18, 21	70	21	236	224	163	27	0	19.2	250	47	12	13	71	21 1650	
	Point of Ayre		64	33	33	12, 17, 18, 21	21	15	129	376	163	31	0	15.8	260	41	12	14	60	12 1340	
2	Durham	Durham	389	53	33	-	0	4	19	72	216	392	21	4.9	260	28	12	23	50	21 2220	
	South Shields		73	57	44	-	0	8	34	185	331	170	0	8.4	270	28	12	22	51	12 1910	
	Lincoln	Cranwell	288	47	47	-	0	10	70	276	302	72	0	11.5	220	32	18	10	55	12 1350	
3	Norfolk	Gorleston	45	33	33	-	0	3	7	322	371	18	2	10.6	190	26	11	08	39	11 0745	
	Suffolk	Mildenhall	98	83	60	-	0	7	48	233	342	97	0	10.0	220	32	21	18	60	18 1510	
	Bedford	Cardington	226	133	133	18, 19, 21	14	13	116	302	228	60	0	13.5	230	39	21	18	56	18 1140	
	Hertford	Garston	307	50	33	-	0	0	0	153	405	162	0	6.9	260	21	12	15	49	18 0815	
	Rothamsted		461	41	33	-	0	0	0	138	339	229	14	6.3	240	20	18	11	47	18 1140	
	Essex	Stansted	358	31	31	-	0	3	3	248	362	107	0	8.8	250	22	8	09	43	8 0820	
	Croyton		66	57	48	-	0	5	20	220	387	93	0	9.3	240	30	18	10	57	18 1055	
	Shoeburyness		118	106	91	11, 17, 18, 19, 21, 25	21	15	127	351	179	42	0	15.4	190	45	17	19	73	18 0905	
4	Yorks, W.R.	Sheffield	533	83	35	-	0	2	5	128	231	332	24	5.3	240	23	21	16	49	21 2320	
	Warwick	Edgbaston	643	118	73	-	0	1	1	118	478	123	0	6.9	240	23	21	18	47	21 1740	
	Elmdon		362	30	31	-	0	9	43	255	342	80	0	10.3	230	32	21	19	58	21 1850	
	Stafford	Keele	706	50	33	-	0	3	11	188	366	155	0	7.7	220	26	18	11	51	21 1640	
	Gloucester	Avonmouth	92	61	33	8, 12, 18	6	13	121	235	226	75	57	13.0	240	37	8	05	73	18 0650	
5	London	Kingsway	208	143	41	-	0	4	9	212	402	97	0	8.9	230	25	18	12	58	18 1110	
	Middlesex	London(Heathrow) Airport	115	33	33	-	0	9	52	206	384	98	0	9.8	230	30	18	12	60	18 0700	
	Hampton		139	101	100	-	0	7	37	199	343	141	0	9.0	230	33	18	12	61	18 1330	
	Surrey	Kew Observatory	92	75	50	-	0	5	19	217	367	117	0	9.0	230	26	18	12	52	18 0935	
	Gatwick		232	38	33	18	3	8	62	172	302	181	0	9.2	220	35	18	09	61	18 0415	
	Kent	Isle of Grain	48	40	33	-	0	7	41	261	343	75	0	10.3	220	32	18	11	50	18 0905	
	Dover		68	38	62	17	2	11	112	252	267	54	33	12.9	-	36	17	19	64	18 1030	
	Sussex	Thorney Island	75	65	42	-	0	9	64	260	269	127	0	10.5	230	31	18	10	54	18 1055	
	Hampshire	Hurn	86	53	46	18	1	9	67	311	263	78	0	11.7	220	34	18	08	58	18 0720	
	Calshot		50	41	33	17, 18	3	10	98	418	196	5	0	14.4	200	35	17	17	51	18 0730	
	S. Farnborough		313	69	35	-	0	4	23	173	299	225	0	7.9	220	31	18	09	59	18 0830	
	Berkshire	Abingdon	295	40	40	-	0	8	61	240	229	190	0	9.5	250	30	18	11	(45) 18 0745		
	Wiltshire	Larkhill	491	51	36	-	0	8	36	273	317	94	0	10.2	230	31	18	08	60	18 0705	
	Boscombe Down		425	55	55	-	0	7	36	250	348	86	0	9.9	230	33	18	08	53	18 0740	
	Porton		406	44	44	-	0	9	58	260	297	105	0	10.5	200	33	11	15	53	11 1415	
7a	Cumberland	Carlisle	137	42	30	-	0	4	28	168	383	141	0	8.1	250	29	21	22	50	21 1735	
	Sellafield		83	39	35	12, 18, 21	7	11	97	276	256	84	0	12.5	270	36	12	15	54	12 1355	
	Spadeadam		959	51	40	21	1	7	45	219	359	87	9	10.2	250	34	21	18	65	21 1745	
	Westmorland	Moor House	1960	50	45	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Lancashire	Southport	59	41	33	12, 13, 18, 21	25	8	49	204	299	135	8	10.4	260	41	12	11	61	12 1030	
	Fleetwood		112	50	31	12, 13	10	8	80	273	272	27	58	12.4	270	36	13	01	63	12 1115	
	Speke		84	41	33	12, 18, 21	13	9	53	288	296	70	0	11.7	240	39	21	15	61	21 1710	
	Manchester W/Centre		268	147	55	-	0	4	31	209	371	109	0	8.9	240	30	21	18	64	12 1505	
	Cheshire	Bidston Observatory	262	64	39	12, 18, 21	10	8	63	315	261	40	31	-	260	37	18	12	73	18 1055	
	Ringway		261	33	33	-	0	8	44	258	305	113	0	10.1	220	31	21	16	51	21 1550	
7b	Anglesey	Valley	80	53	40	10-12, 14, 17, 18	89	17	169	232	188	42	0	17.9	220	46	18	06	65	18 0510	
8a	Cardigan	Aberporth	483	41	41	10-12, 18, 21	27	22	198	369	108	18	0	17.6	220	40	18	10	(62) 18 0935		
	Glamorgan	Port Talbot	91	40	35	-	2	13	126	376	170	46	0	14.5	240	35	8	03	60	18 0125	
	Rhosee		257	37	32	8, 12, 18, 21	22	13	96	284	299	19	0	13.7	250	40	18	10	73	18 0640	
8b	Devon	Plymouth Hoe	191	88	65	10, 11, 17, 18, 24	20	18	147	281	201	71	0	14.5	-	40	17	14	(56) 11 1150		
	Cornwall	St. Mary's, Scilly	230	65	57	7-8, 10-12	65	22	259	279	100	17	0	20.3	240	45	18	07	65	18 0525	
	The Lizard		315	75	60	4, 7, 8, 10-12	101	24	208	269	55	7	80	22.6	200	47	10	14	(64) 11 1430		
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	12, 21	3	6	34	174	237	272	0	7.6	250	34	21	16	76	21 1505	
	Antrim	Aldergrove	263	33	35	12, 21	7	11	58	324	231										



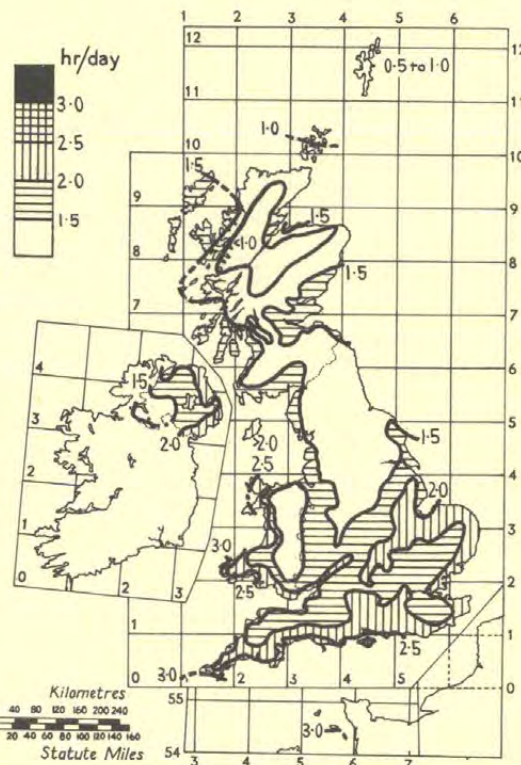
# MONTHLY WEATHER CHARTS NOVEMBER 1963

## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

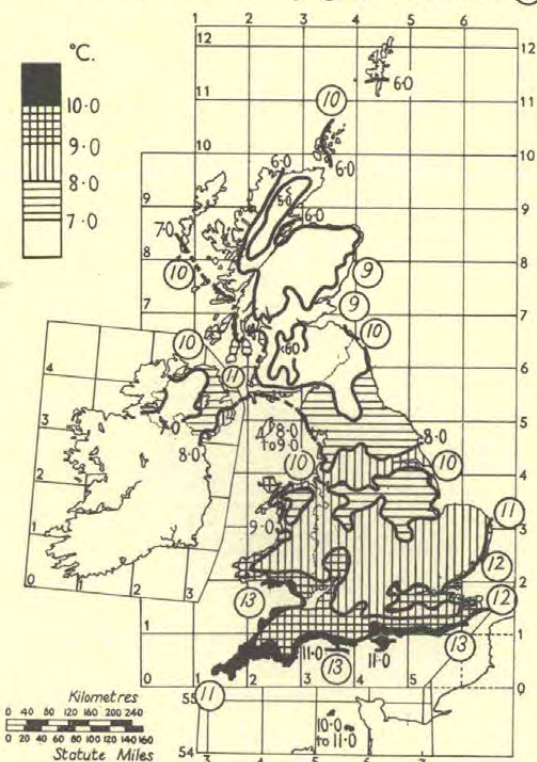


## BRIGHT SUNSHINE

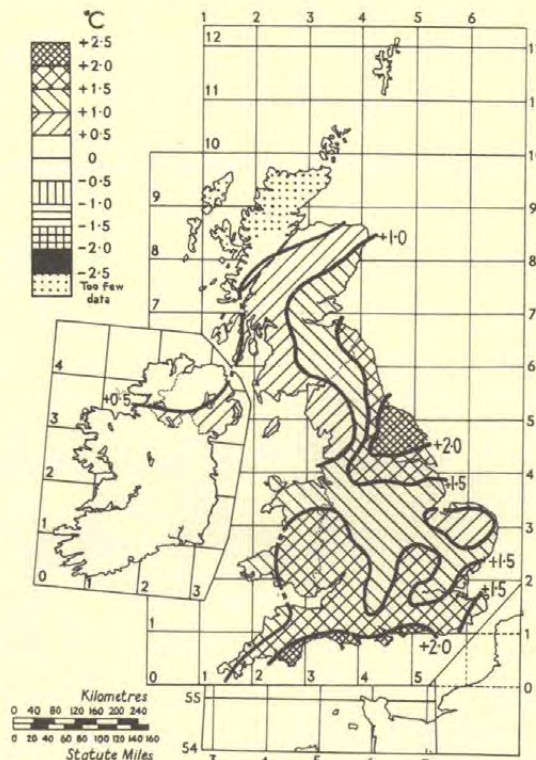


## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

NOVEMBER 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

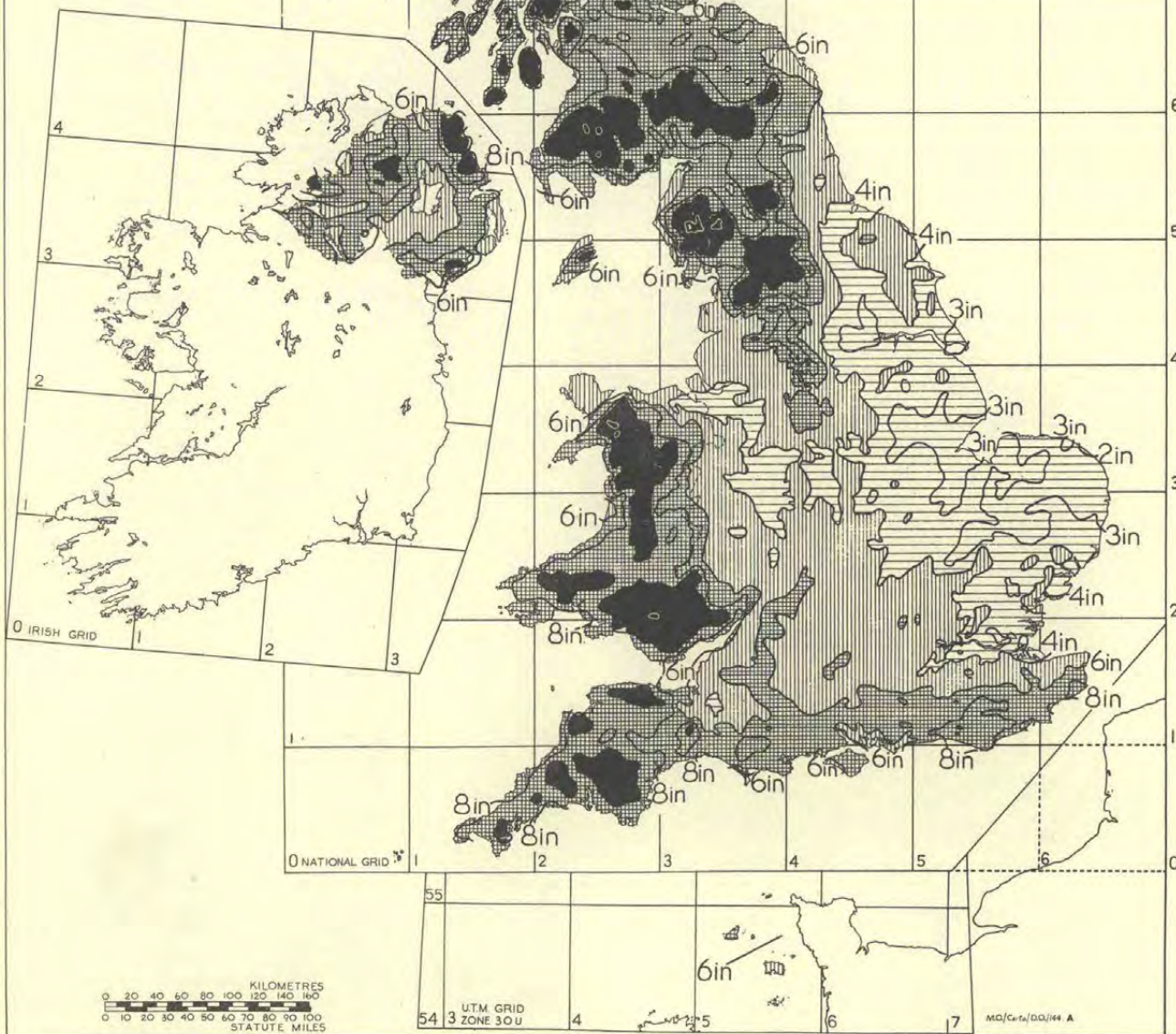
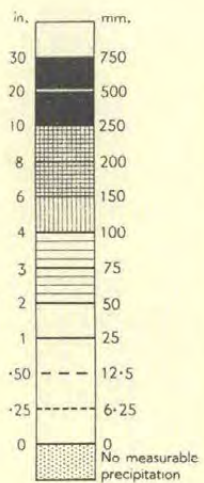








TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days														BRIGHT SUNSHINE		
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall					Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h	Air Frost t	Grass min below 0° C	Gale			
				A	B		Mean Temperature Mean of A and B	Maximum	Date	Minimum		Date	1 ft.	4 ft.	Amount		Date	(0.1in (2.5mm) or more)	(0.1in (1.0mm) or more)													
				°C.	°C.		°C.	°C.	°C.	°C.		°C.	°C.	in.	%		in.															
1 SCOTLAND, E.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.																
Midlothian	Balerno ...	9 9	720	7.7	2.1	4.9	-	11.7	5.6	-5.6	21	-	-	7.79	-	.81	23	21	20	3	-	0	0	0	10	8	11	0	1.65	96	-	
	Turnhouse	21-9	114	8.6	3.3	5.9	-0.1	13.1	6	-5.4	17	-	-	7.68	324	1.22	10	25	21	4	0	0	2	1	2	8	12	1	1.60	-	-	
	Edinburgh—E. Craigs	9 9	200	8.7	3.3	6.0	-	12.8	5	-4.4	17	-	-	7.75	-	1.23	10	25	23	2	0	0	0	1	3	9	13	0	1.53	-	S	
	Davidson's Mains	9 9	200	8.2	3.3	5.7	-0.2	12.2	5	-2.8	17, 21	6.3	-	7.79	-	1.28	10	26	22	2	0	0	0	1	3	8	12	0	1.60	-	S	
	Penicuik ...	9 9	620	7.6	2.4	5.0	-	11.7	5.11	-5.6	17, 21	6.1	-	7.57	-	1.01	23	25	23	3	3	0	0	0	6	8	16	2	1.35	-	-	
	Bush House	9 9	605	8.2	2.3	5.3	-	12.2	6	-5.6	18	6.1	8.2	7.87	-	.94	21	27	24	3	1	0	0	0	4	9	15	0	1.30	-	-	
	Edinburgh—																															
	Blackford Hill	9 9	441	8.4	3.9	6.1	-0.2	12.2	5.16	-2.2	15, 16	-	-	6.96	288	.87	23	25	22	2	0	0	0	0	3	5	13	1	1.90	99	-	
E. Lothian	Liberton ...	9 9	200	8.7	3.4	6.1	-0.1	12.8	5	-2.2	15, 30	-	-	7.32	-	.71	21	21	21	0	0	0	0	0	0	7	9	0	1.69	-	-	
	Royal Bot. Gdns.	9 9	74	8.7	3.1	5.9	-0.2	12.8	5	-3.9	17	6.6	-	7.26	-	.98	21	23	20	0	0	0	0	0	0	5	9	15	0	1.58	95	-
	Haddington	9 9	162	8.9	3.1	6.0	-	12.8	5.6	-7.2	17	-	-	6.33	-	.86	21	25	20	3	0	0	0	0	0	2	7	12	3	(1.50)	-	S
	North Berwick	9 9	152	9.1	4.1	6.6	+0.1	12.8	1	(-1.7)	30	-	-	7.05	301	(1.00)	23	22	21	0	0	0	0	0	1	7	-	0	-	-	-	
	Dunbar	9 9	75	8.9	4.1	6.5	-0.2	12.2	5.6	-2.2	30	-	-	6.73	-	.94	23	20	20	0	0	0	0	0	6	8	0	1.86	89	-		
	Mertoun	9 9	225	8.9	2.6	5.7	-	12.8	6.11	-5.6	17	-	-	8.46	-	2.64	28	26	17	-	-	-	-	-	7	16	-	1.51	-	-		
	Lauder	9 9	600	7.5	2.1	4.8	-	12.2	6	-7.8	21	-	-	6.63	-	1.27	13	22	19	4	2	0	0	0	2	9	15	0	-	-	-	
	Marchmont	9 9	498	7.7	2.9	5.3	-0.1	10.6	5.6, 11	-4.4	21	-	-	6.46	217	1.02	23	24	20	1	0	0	0	0	6	7	-	5	1.24	79 S	-	
Berwick	St. Abb's Head	9 9	245	8.5	5.3	6.9	-	12.0	2	-1.5	21	-	-	-	-	-	-	-	0	0	0	0	0	0	3	1	5	3	-	-	-	
	Stanhope Farm	9 9	741	8.3	1.5	4.9	-	12.8	3	-6.7	17, 21	-	-	9.61	-	1.61	10	23	20	5	1	1	0	0	0	11	14	0	-	-	-	
	Blyth Bridge	9 9	830	7.8	1.8	4.8	-	12.2	11	-6.1	17	-	-	6.75	-	1.01	23	23	20	7	2	0	1	0	0	10	14	2	1.67	-	-	
	West Linton	9 9	800	7.5	1.6	4.5	-	11.1	5	-7.8	21	4.7	7.7	7.16	-	1.28	23	24	22	5	4	0	0	0	0	10	12	0	-	-	-	
	Glenstress	9 9	580	8.3	1.7	5.0	-	12.2	6.11	-7.2	17, 18	-	-	6.99	-	1.16	10	22	20	4	2	0	0	0	0	11	-	0	-	-	-	
	Bowhill	9 9	600	7.9	2.2	5.1	-	12.2	6	-5.6	17	-	-	7.58	-	1.27	17	24	18	4	1	0	0	1	3	10	-	3	-	-	-	
	Selkirk	9 9	600	7.9	2.2	5.1	-	12.2	6	-5.6	17	-	-	7.58	-	1.27	17	24	18	4	1	0	0	1	3	10	-	3	-	-	-	
	Roxburgh	9 9	560	8.4	2.3	5.3	-	12.2	6	-6.1	17	-	-	7.42	-	1.13	23	27	22	-	0	-	-	-	2	10	-	-	-	-	-	
Sourhope	9 9	900	7.7	2.7	5.2	-	11.7	6	-5.0	17, 21	-	-	7.66	-	1.12	17	26	20	-	2	-	-	-	-	0	4	15	-	1.22	-	-	
6a SCOTLAND, W.																																
Argyll	Tiree ...	21-9	29	9.5	5.2	7.3	-0.6	13.0	4	0.0	17	-	-	4.28	92	.71	10	22	16	1	0	1	5	0	0	0	7	5	1.43	89	-	
	Rhuvaal ...	21-9	65	9.5	6.2	7.9	-	12.4	4.6	1.7	15	-	-	7.65	-	2.44	10	25	19	0	0	3	0	0	0	0	2	6	-	-	-	
	Colonsay	9 9	87	9.9	4.2	7.1	-0.4	12.8	6.11	-2.2	17, 29	-	-	5.41	95	.72	23	27	18	2	-	4	0	0	0	3	4	-	3	-	-	
	Tobermory	9 9	270	9.4	4.4	6.9	-	12.8	1.4	-1.1	16	-	-	6.79	-	.88	8	23	19	-	-	-	-	-	1	7	-	-	-	-	-	
	Campbeltown	9 9	10	10.4	5.2	7.8	-	12.2	2, 10, 21	-1.1	30	-	-	9.59	-	1.74	17	20	17	-	0	-	-	-	15	3	-	-	1.76	-	-	
	Achaglachgach	9 9	40	9.6	3.2	6.4	-	13.3	11	-5.6	20	-	-	9.13	-	1.88	10	24	21	1	-	0	3	4	0	7	14	0	-	-	-	
	Oban	9 9	229	9.0	4.3	6.7	-0.1	12.2	4.11	-2.2	17	-	-	5.25	88	.80	14	21	18	0	0	1	0	0	0	2	7	2	1.40	99 S	-	
	Lepinmore	9 9	30	9.0	3.5	6.3	-	12.8	1	-3.9	17	-	-	7.44	-	1.21	10	22	20	0	0	3	0	0	0	8	12	0	1.22	-	S	
Bute	Glenbranter	9 9	120	8.1	2.6	5.3	-0.3	11.7	4, 5, 6	-5.6	17	-	-	11.20	114	2.44	10	23	20	-	0	-	-	-	1	9	14	-	-	-	-	
	Benmore																															
	Forestry Sch.	9 9	46	9.1	2.5	5.9	-0.4	14.4	12	-5.6	17	-	8.5	11.03	113	1.75	23	23	22	2	0	0	0	0	2	9	12	3	-	-	-	
	Younger Bot. Gdns.	9 9	40	8.9	3.4	6.1	-	12.8	5	-4.4	17	-	-	11.13	-	1.73	23	23	22	1	0	1	1	1	1	7	15	0	-	-	-	
	Bute																															
	Rothsay	9 9	150	9.0	4.8	6.9	0.0	11.7	5, 7, 11	-0.6	17	7.1	8.8	6.35	109	.88	23	23	19	2	0	2	0	0	0	1	8	0	1.71	108	-	
	Millport	9 9	16	9.8	5.3	7.5	-	13.3	6	0.0	29	-	-	7.91	170	2.10	10	21	17	1	0	1	0	1	0	0	-	6	-	-	-	
	Dunbarton	9 9	293	8.2	3.2	5.7	-0.3	12.2	11	-3.3	17	-	-	6.39	109	1.02	13	24	20	1	1	1	0	0	0	2	7	-	0	-	-	
Stirling	Cumbernauld	9 9	310	7.4	2.5	4.9	-	11.7	5	-5.6	18	-	-	8.35	-	1.42	10	24	22	2	0	0	0	0	7	9	13	0	-	-	-	
	Earls Hill	9 9	1100	5.6	2.1	3.9	-	10.0	5.6	-4.8	20	-	-	11.60	-	1.54	10	24	22	-	-	-	-	-	11	7	14	-	1.70	-	-	
	Stirling	9 9	151	8.6	3.4	6.0	0.0	12.2	6	-3.3	16, 17, 30	6.6	9.9	7.36	196	1.20	23	25	22	1	0											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE				
			Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average				
			A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount			Date	-0.1in (0.2mm) or more												-0.4in (1.0mm) or more			
			Max.	Min.		Max.	Min.	Max.	Min.	Max.	Min.	in.			%	in.												%			
2 ENGLAND, N.E.—cont.			G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	
Northumb-berland cont.	Haydon Bridge	9 9	270	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Corbridge	9 9	160	9.7	3.7	6.7	-	12.8	6, 11	-3.3	17, 18	-	-	5.19	-	.72	23	24	20	1	0	0	1	0	6	5	7	2	-	-	
	Berwick-on-Tweed	9 9	76	8.7	4.4	6.5	0.0	11.7	11	-2.2	17, 21	-	-	5.30	237	.98	23	23	19	0	0	0	0	0	1	6	6	1	1.53	75	
	Ponteland	9 9	220	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Durham	Cockle Park	9 9	326	8.6	4.1	6.3	+0.5	12.2	3	-2.8	17, 21	7.3	-	5.94	215	1.11	10	26	22	1	0	0	0	0	2	4	6	0	1.31	64	
	Acklington	21-9	138	8.7	4.6	6.7	-	12.0	11	-3.1	21	-	-	5.54	-	.93	10	24	20	0	0	0	1	0	4	4	6	1	1.40	-	
	Tynemouth	21-9	95	9.2	6.1	7.7	+0.4	12.2	11	-1.0	21	-	-	5.24	210	.78	10	23	19	1	0	1	0	0	0	2	5	2	1.33	-	
	Chopwellwood	9 9	446	8.9	4.2	6.5	+0.5	12.8	17	-2.8	21	-	-	5.49	198	.96	10	29	22	1	0	0	0	0	2	4	11	0	-	5	
	Ushaw College	9 9	594	8.6	4.1	6.3	+0.5	11.7	9	-2.8	21	-	-	3.77	130	.66	10	22	18	0	0	0	0	0	18	4	-	1	-	-	
	Houghall	9 9	123	9.8	3.9	6.9	+1.0	13.3	5	-4.4	17	-	-	4.22	158	.70	10	27	21	1	0	0	0	0	2	8	0	1.32	78		
	Durham	9 9	336	9.2	4.1	6.7	+0.6	12.8	5	-3.3	17, 21	7.9	9.6	3.81	153	.62	10	26	21	-	0	-	-	-	6	3	8	-	1.42	74	
	Gateshead	9 9	509	8.8	4.7	6.7	-	11.1	5, 10, 17	-1.1	17, 21	-	-	5.50	-	.75	10	24	20	-	0	-	-	-	7	2	4	-	1.28	-	
Yorks., N. Riding	Middleton St. George	21-9	115	9.7	5.1	7.4	-	13.1	5, 18	-3.2	17	-	-	3.48	-	.60	10	21	17	1	0	0	0	0	3	3	7	0	1.34	-	
	West Hartlepool	9 9	30	10.2	5.4	7.8	-	13.3	5, 10	-1.7	21	-	-	4.28	-	.59	6	22	21	0	0	0	0	0	1	3	5	0	0.93	-	
	Dishforth	21-9	105	9.8	5.4	7.6	-	12.9	9	-3.3	21	-	-	3.55	151	.54	10	25	19	0	0	0	0	0	3	4	4	1	1.43	-	
	Thirsk	9 9	111	9.9	4.7	7.3	-	13.9	9	-3.3	21	-	-	3.40	-	.45	17	26	19	0	0	0	0	0	1	3	13	1	-	-	
	York	9 9	57	10.2	5.3	7.7	+0.9	12.8	1, 11, 23	-1.7	17, 18	8.5	10.1	3.21	136	.52	17	25	20	0	0	0	0	0	2	4	-	0	1.38	88	
	Ampleforth	9 9	313	9.4	4.6	7.0	+0.9	12.8	4	-1.7	21	-	-	4.18	140	.71	10	24	20	0	-	0	-	-	0	4	4	8	1	-	-
	Redcar	9 9	25	10.5	5.6	8.1	-	14.4	5	-2.2	17	-	-	3.76	150	.60	6	23	18	-	0	-	-	-	0	2	-	-	1.26	-	
	Whitby	9 9	135	10.1	5.1	7.6	-	13.3	18	-1.1	17, 21	-	-	3.66	138	.52	17	22	19	0	0	0	1	0	3	2	-	0	1.41	85	
Yorks., E. Riding	Scarborough	9 9	118	10.2	5.9	8.1	+0.7	12.8	5, 10	0.6	17	8.5	10.4	3.98	156	.67	6	23	21	0	0	0	0	0	1	0	2	1	1.43	85	
	Silpho Moor	9 9	665	8.2	3.9	6.1	-	11.7	10	-2.8	21	7.1	-	5.82	-	1.02	10	26	20	0	0	1	0	0	7	4	10	0	1.58	-	
	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Whitby C/Guard	21-9	200	9.7	5.4	7.5	-	13.0	5	-2.0	21	-	-	3.28	-	.59	6	22	17	0	0	0	0	0	0	3	4	4	-	-	
	High Mowthorpe	9 9	574	8.9	4.1	6.5	-	11.7	5, 10	-1.7	21	7.8	-	5.53	196	.90	6	26	22	0	0	0	0	0	3	3	9	1	1.52	-	
	Hull	9 9	8	10.6	5.7	8.1	+1.0	13.3	1, 10, 18	-0.6	21	8.6	10.0	3.78	147	.62	28	22	17	0	0	0	0	0	3	1	5	1	1.49	96	
	Leconfield	21-9	24	10.4	5.5	7.9	-	13.1	11	-1.9	17	-	-	3.91	-	.61	6	22	18	0	0	0	0	0	2	2	5	2	1.53	-	
	Filey	9 9	122	9.6	4.8	7.2	-	12.2	5, 10, 11	-3.3	21	-	-	3.69	-	.64	10	23	14	0	0	0	1	0	1	8	2	1.30	-		
Lincoln	Bridlington	9 9	157	9.9	4.8	7.3	-	12.8	3, 11	-2.2	21	-	-	3.95	-	.61	28	24	17	0	0	0	1	0	1	2	14	5	1.65	-	
	Spurn Head	21-9	29	10.5	6.7	8.6	+1.1	13.0	18	0.8	21	-	-	3.18	-	.60	19	22	16	0	0	0	0	1	1	0	-	2	1.76	94	
	Gainsborough	9 9	110	10.8	4.5	7.7	-	13.9	5	-1.1	16	-	-	3.69	-	.62	10	21	17	0	0	0	0	0	1	0	-	0	-	-	
	Navenby	9 9	60	10.9	4.7	7.8	-	14.4	1, 10	-2.8	21	-	-	2.85	-	.40	28	22	15	0	0	0	0	0	3	5	10	5	-	-	
	Waddington	21-9	224	10.5	5.1	7.8	+1.4	13.6	10	0.2	21	-	-	2.76	-	.48	28	23	14	0	0	0	0	0	3	0	5	1	1.75	-	
	Lincoln	9 9	22	11.1	4.2	7.7	-	15.0	10	-5.0	21	8.6	10.1	3.13	-	.45	28	24	15	0	0	0	0	0	4	9	2	1.64	-		
	Cranwell	9 9	205	10.5	4.5	7.5	+1.1	14.0	10, 19	-1.3	21	8.2	9.9	2.94	127	.63	28	20	16	0	0	0	0	0	3	2	8	0	2.11	105	
	Cleethorpes	9 9	23	10.5	5.3	7.9	+0.9	13.3	18	0.0	17	-	-	3.53	148	.52	21	21	16	0	0	0	0	0	1	0	0	1	0.94	103	
Manby	21-9	55	10.8	4.9	7.9	-	14.9	3	-2.4	21	-	-	3.28	-	.66	19	21	16	0	0	0	0	1	3	3	5	2	2.14	-		
Skegness	9 9	15	10.5	5.2	7.9	+1.0	13.3	3, 11, 19	-1.7	21	-	-	3.05	132	.36	17	20	17	0	0	0	0	1	4	3	7	1	1.76	86		
3 ENGLAND, E.																															
Norfolk	Terrington	9 9	13	10.7	5.0	7.9	-	15.0	10	-1.1	21	8.2	-	3.13	152	.53	18	20	16	0	0	0	1	1	3	2	5	0	2.32	-	
	St. Clement	21-9	76	10.9	5.0	7.9	-	15.1	19	-3.8	21	-	-	3.00	-	.55	18	21	15	0	0	0	0	0	3	4	6	0	-	-	
	Marham	9 9	80	11.2	3.7	7.5	-	15.6	2, 19	-5.6	21	8.6	9.9	2.58	-	.42	18	23	14	-	0	-	-	-	3	6	13	-	-	-	
	Santon Downham	21-9	250	10.5	4.8	7.7	-	14.8	19	-3.0	21	-	-	2.78	-	.51	18	23	14	0	0	0	1	0	4	5	10	1	2.27	-	
Suffolk	West Raynham	9 9	178	10.8	5.4	8.1	+0.8	13.9	2, 19	-1.1	21	-	-	2.33	79	.44	17	18	13	-	0	-	-	-	-	0	1	4	-	2.37	118
	Cromer	9 9	93	11.2	4.6	7.9	+1.0	15.0	19	-2.2	28	8.9	-	2.40	90	.55	18	19	13	0	0	0	0	0	1	3	11	2	1.95	107	
	Sprowston	9 9	89	11.1	5.1	8.1	-	15.0	19	-1.1	21	-	-	2.09	76	.47															



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER												BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Means of		Difference from Mean of A and B	Highest Maximum and Lowest Minimum				Total Fall			Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean			Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount		Date	-0.1in (0.2mm.) or more	-0.01in (1.0mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
				G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Average	Most in a day	Precip'n	Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.															in.	%	in.	0.1 in. (0.2 mm.) or more	0.4 in. (1.0 mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	0.1 in. (0.2 mm.) or more	0.4 in. (1.0 mm.) or more	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE					
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost t	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average		
				A Max.	B Min.		Maximum	Date	Minimum	Date		Amount	Date		-0.1in. (0.2mm.) or more	-0.01in. (1.0mm.) or more															
				Max. Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	1 ft.	4 ft.	in.	%	in.										hr	%		
7a ENGLAND, N.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.																			
Westmorland Great Dun Fell		21-9	2780	3.6	-	-	-	8.2	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.48	-				
—cont. Moor House		9 9	1825	5.9	1.0	3.5	-	8.9	6, 10, 11	-8.3	17, 21	5.4	-	12.53	-	1.81	17	28	23	-	-	-	-	26	11	19	-	0.67	-		
Lancashire Barrow-in-Furness		9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			
Squires Gate		21-9	33	10.6	5.3	7.9	-	14.0	1	-3.3	21	-	-	5.06	149	.89	14	25	21	1	0	2	0	0	2	5	6	3	1.85	106	
Urswick		9 9	130	10.4	4.2	7.3	-	14.4	1	-3.3	16	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Southport		9 9	16	10.7	4.7	7.7	-	13.3	1, 10, 18	-2.2	16	8.3	11.2	4.48	-	.58	14	26	22	-	-	-	-	-	2	2	6	-	1.65	-	
Poulton-le-Fylde		9 9	38	10.8	4.9	7.9	-	13.9	1	-2.2	18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
Grizedale		9 9	300	-	-	-	-	13.3	16	-4.4	17	7.6	-	12.99	-	1.69	21	27	25	0	0	1	0	0	1	7	14	0	-	-	
Speke		21-9	80	10.7	6.0	8.3	-	14.4	10	0.2	21	-	-	4.09	139	.57	25	20	18	1	0	1	0	1	2	0	4	3	1.56	-	
Kirkham		9 9	78	10.4	4.8	7.6	-	13.9	5	-2.8	16	-	-	5.39	147	.85	14	24	21	0	0	1	2	0	1	5	8	0	1.87	-	
Garstang		9 9	68	10.4	4.7	7.5	-	13.9	1	-2.2	16	-	-	6.01	-	1.17	14	23	20	-	-	-	-	-	-	0	5	6	-	1.55	-
Morecambe		9 9	24	10.2	5.4	7.8	+0.7	13.3	1, 5, 10	-1.1	16	-	-	5.77	149	.80	21	26	22	0	0	0	0	0	0	2	-	0	1.28	72	
Preston		9 9	108	10.5	5.0	7.7	-	13.9	5, 10, 11	-2.2	16	-	-	4.90	126	.74	21	23	21	2	0	1	0	0	5	4	6	0	-	-	
Bolton		9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Darwen		9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Stonyhurst		9 9	377	10.0	4.6	7.3	+1.0	13.3	11	-3.3	16	-	-	6.05	128	1.05	21	24	23	-	0	-	-	-	4	3	5	-	1.18	74	
Manchester W/Centre		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	-	
Helmshore		9 9	854	8.7	4.3	6.5	-	13.3	23	-1.1	21	7.1	-	7.76	122	1.45	21	25	23	-	0	-	-	-	3	2	7	-	1.07	-	
Manchester (Smokeless Zone)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	0.88	-	
Burnley		9 9	655	-	4.4	-	-	-	-	-2.8	21	13.4	9.3	7.18	-	.97	21	24	22	0	0	0	1	0	0	2	9	0	0.96	-	
Nelson		9 9	540	9.3	4.7	7.0	-	12.2	5, 10, 11	-2.2	16, 17, 21	7.6	9.6	6.63	144	.94	21	24	23	-	0	-	-	-	3	4	8	-	0.82	- 5	
Rochdale		9 9	362	9.8	4.5	7.1	-	13.3	5, 10	-2.8	21	-	-	5.87	-	1.06	21	24	23	0	0	0	0	1	4	3	9	3	-	-	-
Cheshire West Kirby Park		9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Bidston Obs'y. ¶		9 9	198	10.2	6.2	8.2	+1.0	12.8	5, 18, 21	1.7	21	-	-	4.01	144	.73	25	23	18	-	-	-	-	-	3	0	1	-	1.74	97	
Winnington		9 9	65	10.7	5.2	7.9	-	14.4	10	-1.1	16	-	-	3.86	133	.60	25	22	19	0	0	0	1	0	3	4	9	2	-	-	-
Knutsford		9 9	212	10.3	4.4	7.3	-	13.9	2, 3, 10	-1.1	16, 27, 28	7.8	10.2	4.38	-	.60	25	23	19	-	-	-	-	-	3	5	9	-	-	-	-
Ringway ¶		21-9	248	10.1	5.5	7.8	+1.1	14.2	10	-0.7	27	-	-	4.25	140	.59	25	24	19	0	0	0	1	0	4	1	5	0	1.39	98	-
Macclesfield		9 9	500	9.5	4.6	7.1	+1.0	12.8	3, 5, 6	-0.6	16, 17, 20	-	-	4.53	132	.58	14	24	20	0	0	0	0	0	5	3	-	1	-	-	-
7b NORTH WALES																															
Flint Rhyl		9 9	31	11.1	5.4	8.3	+0.4	13.9	2, 10	0.6	16, 17	-	-	3.91	153	.65	28	23	21	2	0	0	0	0	1	0	1	4	1.82	100	-
Prestatyn		9 9	12	11.4	-	-	-	14.4	2	-	-	-	-	4.05	146	.64	25	23	16	0	0	1	0	0	0	-	0	-	0	1.41	83
Hawarden Bridge		9 9	17	11.1	5.0	8.1	+0.8	13.9	5	-2.2	17	-	-	3.27	119	.50	9	21	16	0	0	0	0	0	1	3	-	2	-	-	-
Anglesey Valley		21-9	26	11.5	6.6	9.1	+0.4	15.4	10	0.0	30	-	-	5.02	139	.62	7	24	19	0	0	2	0	0	0	0	5	11	2.57	132	-
Denbigh Alwen		9 9	1100	8.6	2.0	5.3	-	11.1	2, 6, 10	-	0.0	21	-	8.50	-	1.03	25	25	25	-	-	-	-	-	8	17	-	-	-	-	-
Ruthin		9 9	248	10.4	3.8	7.1	-	13.9	10	-1.7	16, 21, 22	-	-	5.01	-	.72	14	27	19	-	0	-	-	-	-	0	7	-	-	-	-
Loggerheads		9 9	690	9.7	3.6	6.7	-	12.8	4	-2.8	21	7.6	9.4	4.09	-	.70	14	21	16	0	0	0	0	0	5	5	7	0	-	-	-
Bwlchwyn		9 9	1267	7.7	3.7	5.7	-	11.1	10	-1.1	21	7.1	-	7.26	-	1.07	14	26	21	0	-	0	0	0	8	1	10	2	-	-	-
Wrexham		9 9	275	10.4	4.1	7.3	-	13.3	10	-1.1	16, 21	8.3	10.1	4.93	-	.74	14	22	16	0	0	0	1	0	1	3	16	0	-	-	-
Caernarvon Bardsey Island		21-9	60	11.6	8.7	10.1	-	13.8	1	4.2	21	-	-	6.49	-	1.02	7	21	20	-	-	-	-	-	0	0	0	-	-	-	-
Botwnnog		9 9	112	11.6	6.3	8.9	-	15.0	10	1.1	21	9.3	11.1	6.34	-	.75	7	25	21	0	0	0	0	2	0	0	5	5	2.64	-	-
Bryn Adda		9 9	275	11.2	5.8	8.5	-	15.0	5, 10	1.7	21	-	-	6.08	-	.68	7	22	19	0	0	0	1	0	0	0	10	3	2.06	-	-
Cwm Dyli		9 9	324	11.0	5.1	8.1	-	14.4	5, 10	-1.1	21	9.1	-	15.22	-	1.80	21	26	24	-	0	-	-	-	0	2	10	0	-	-	-
Aber		9 9	60	12.1	6.1	9.1	+0.6	16.1	10	0.0	21	-	-	7.17	164	.75	25	26	20	0	0	0	0	0	1	6	1	1.65	131	-	-
Llandudno ¶		9 9	13	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Merioneth Llyn Stwlan		9 9	1656	8.2	3.5	5.9	-	13.3	1	0.0	21	-	-	12.81	-	1.98	14	24	21	-	0	-	-	-	-	1	7	-	-	-	-
Trawsfynydd		9 9	611	10.2	4.6	7.4	-	12.8	1, 5, 11	-1.1	21	-</																			



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER November 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation Max. Min.	Height of Station above Mean Sea Level ft.	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)						WEATHER Number of days							BRIGHT SUNSHINE			
				Means of		Difference from Average °	Highest Maximum and Lowest Minimum				Total Fall			Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost at min below 0° C	Gale	Daily Mean	Per-cent-age of Aver-age			
				A Max.	B Min.		Maximum	Date	Minimum	Date		Amount	Date		-0.1in.(0.2mm) or more	-0.1in.(1.0mm) or more														
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.			Snow lying at 9h.							hr	%			
<b>8b ENGLAND, S.W.—cont.</b>		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.									hr	%						
Somerset	Long Ashton ...	9 9	162	11.8	5.8	8.8	+1.5	15.7	10	1.1	14,21,27	10.3	-	6.03	165	1.20	17	27	22	0	0	2	0	2	1	0	10	0	2.02	112
	Wincanton ...	9 9	375	11.9	5.4	8.7	-	15.0	18,19	0.0	14,21,28	-	-	5.80	-	.69	17	28	26	0	0	0	0	0	0	3	9	2	-	-
Dorset	Bath City Boys' School	9 9	388	11.1	5.8	8.5	-	15.6	10	1.1	30	9.9	-	5.75	-	1.09	17	28	21	0	0	0	0	0	2	0	-	0	1.20	-
	Bath ... §§	9 9	67	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Lyme Regis ...	9 9	200	12.6	7.2	9.9	-	15.6	3,10	1.1	21	-	-	7.46	-	1.01	17	29	24	0	0	0	1	3	0	0	2	10	2.47	-
	Portland Bill ...	21-9	35	12.8	9.1	10.9	+1.2	15.7	10	4.5	30	-	-	5.42	166	.78	17	25	22	0	0	1	0	1	0	0	-	9	-	-
	Weymouth ...	9 9	16	12.7	8.2	10.5	+1.6	16.1	10	1.1	21	-	-	6.02	161	.91	17	28	25	-	0	-	-	-	1	0	-	-	2.71	111
	Winfrith ...	9 9	85	12.5	6.6	9.5	-	16.1	10	-1.7	21	-	-	6.83	-	1.02	17	29	26	-	0	-	-	-	0	5	7	-	-	-
	Shaftesbury ...	9 9	680	10.6	5.6	8.1	+1.4	15.0	10	-0.6	30	-	-	5.33	144	.96	18	24	23	-	0	-	-	-	2	1	-	-	-	-
	Swanage ...	9 9	37	13.4	8.2	10.8	-	16.7	10,11	1.1	21	-	12.7	6.53	-	.86	17	26	23	0	0	0	1	0	0	2	9	2	2.51	112
Devon	Poole ...	9 9	18	12.4	6.5	9.5	-	15.0	19	-1.1	16	-	-	7.03	-	1.01	17	26	23	0	0	0	0	0	0	1	-	0	2.32	101
	Clawton ...	9 9	412	11.9	-	-	-	15.0	3	-	-	-	-	9.15	-	.97	17	29	27	0	0	0	0	0	0	0	-	6	-	-
	Hartland Point ...	21-9	298	11.3	8.1	9.7	-	15.0	10	4.8	16,30	-	-	6.01	-	.99	18	25	26	0	0	0	0	1	0	0	0	13	2.18	110
	Mount Batten ...	21-9	87	12.4	8.3	10.3	+1.3	15.3	10	1.2	21	-	-	8.92	199	1.19	17	29	25	0	0	1	3	7	0	0	4	2	2.30	104
	Plymouth, The Hoe	9 9	119	12.7	8.1	10.4	+1.6	15.6	10	2.8	21	11.0	12.3	8.14	183	1.10	17	30	25	0	0	1	3	7	0	0	4	10	2.36	-
	Tavistock ...	9 9	457	11.8	6.6	9.2	+1.4	14.4	3,10	0.6	21	-	11.0	11.15	-	1.25	4	30	26	2	-	0	5	3	0					

† Air Frost - Screen Min. below 0° C.

¶ §. § See Notes on Tables in the Introduction

§ Average period 1931 - 60



[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS November 1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND, NUMBER OF OBSERVATIONS																				
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)				DIRECTION																					
										Mean Amount	0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force				N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.			
																															Speed in knots														
																															0	1	2	3									4	5	6
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
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																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
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																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3	4	5	6	7	8	9	10	11	12
																																	0	1	2	3									



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS November 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY										WIND. NUMBER OF OBSERVATIONS																																																																																																															
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																														
										0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,000-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																													
																														8 or more	5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100	5	6	7									8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
																														0	1	2	3	4									5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,000-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77

4 MIDLAND COUNTIES—cont.																																								
Northampton Wittering	H	3	219	1000.8	-	6.9	0.6	9.2	92	5.7	5	2	3	1	14	5	0	2	3	3	2	4	5	3	6	2	0	2	9	18	1	0	1	2	4	9	9	3	1	
9	219	1000.5	-	7.0	0.6	9.4	92	6.8	0	2	5	7	13	3	0	2	0	4	5	4	1	7	4	3	0	0	14	15	1	0	1	4	3	8	5	5	3			
15	219	1000.2	-	9.6	1.3	10.0	83	6.0	0	5	3	11	10	1	0	1	0	0	2	3	4	8	8	4	0	2	15	12	1	1	2	0	7	5	5	8	1			
21	219	1001.4	-	7.3	0.9	9.3	89	5.0	6	3	4	5	9	3	0	1	1	3	2	6	5	6	5	1	0	10	20	0	0	3	0	7	5	12	1	2				
Warwick Edgbaston	H	9	542	1000.2	-	6.9	0.6	9.2	92	6.3	0	4	3	9	13	1	0	1	1	3	6	3	4	9	3	0	0	6	24	0	2	0	6	3	8	5	4	2		
15	542	999.7	-	9.4	1.5	9.4	79	6.2	2	1	4	12	11	0	0	0	1	0	7	2	6	10	4	0	0	2	8	20	0	2	1	2	4	7	4	9	1			
21	542	1001.0	-	7.7	0.9	9.2	87	4.8	5	5	5	4	11	0	0	0	0	2	5	4	7	7	5	0	0	8	22	0	2	0	4	4	6	12	1	1				
3	382	1000.3	-	6.7	0.4	9.2	92	5.1	7	0	6	5	11	1	0	1	1	0	2	7	6	7	6	0	0	1	7	19	3	0	0	3	3	10	5	3	3			
Elmdon	H	9	362	1000.2	-	6.8	0.5	9.3	93	6.5	0	0	7	12	9	2	1	2	1	0	2	6	11	6	1	0	0	1	9	17	3	2	0	4	4	8	6	3	0	
15	362	999.8	-	9.4	1.4	9.7	82	6.4	0	2	5	14	8	1	0	0	0	1	3	4	10	12	0	0	0	3	13	12	2	1	2	2	5	6	7	4	1			
21	362	1001.1	-	7.8	0.9	9.3	87	5.3	4	3	4	9	9	1	0	0	0	2	4	8	11	5	0	0	0	1	10	19	0	0	0	3	5	11	7	2	2			
3	249	999.1	-	6.8	0.6	9.2	92	5.7	3	4	3	6	12	2	1	0	0	0	4	4	2	6	10	2	0	2	5	20	3	2	0	5	2	10	4	4	0			
Shropshire Shawbury	H	9	249	999.2	-	6.8	0.7	9.1	91	6.5	0	2	5	13	10	0	0	0	1	2	4	6	7	7	2	0	2	9	14	5	2	0	5	3	7	5	3	0		
15	249	998.7	-	9.5	1.4	9.9	83	6.0	2	2	4	15	7	0	0	0	0	0	0	2	3	10	7	7	1	0	3	12	13	2	1	0	5	3	4	5	7	3		
21	249	1000.1	-	7.1	0.8	9.1	89	5.1	3	7	2	9	9	0	0	0	0	2	4	2	4	7	10	1	0	2	7	13	3	1	0	4	4	6	7	4	1			
3	117	1000.0	-	7.3	0.9	9.3	90	5.2	3	4	3	12	7	1	0	1	0	2	2	1	8	4	10	2	0	1	12	13	4	1	0	3	4	3	12	2	1			
Worcester Pershore	H	9	117	1000.2	-	7.6	0.7	9.5	90	6.2	2	3	1	14	10	0	0	0	1	0	1	2	5	5	7	2	0	3	10	14	3	2	0	3	6	6	8	2	0	
15	117	999.9	-	10.1	1.5	10.0	81	6.3	0	3	4	15	8	0	0	0	0	1	1	0	10	6	5	7	0	2	15	11	2	2	0	2	5	4	10	3	2			
21	117	1001.2	-	8.0	1.0	9.4	87	4.6	5	6	3	10	6	0	0	0	1	1	3	7	7	7	3	0	0	1	7	18	4	1	2	5	1	9	8	0	0			
9	226	999.9	-13.1	8.1	0.9	9.6	87	6.5	0	1	6	11	12	0	0	0	0	0	1	0	3	9	8	8	1	0	1	6	21	2	1	0	6	2	6	10	3	0		
Hereford Ross-on-Wye	H	15	226	999.2	-	10.1	1.8	9.8	78	6.2	0	5	3	10	12	0	0	0	0	0	0	0	12	7	9	2	0	2	11	17	0	2	1	5	2	5	8	5	2	
21	226	1001.0	-	8.3	1.1	9.5	85	5.8	2	6	1	5	16	0	0	0	0	0	0	1	6	7	1	14	1	0	5	22	3	0	0	4	4	4	14	0	1			
3	197	1000.2	-	8.1	0.7	9.8	90	5.5	3	5	2	8	12	0	0	0	0	0	0	0	4	12	13	1	0	0	1	7	18	4	0	0	6	3	6	7	3	1		
9	197	1000.5	-	8.3	0.7	10.0	90	6.0	0	4	6	9	11	0	0	0	0	0	0	0	3	3	13	10	1	0	2	8	18	2	2	1	5	4	4	6	5	1		
Gloucester Filton	H	15	197	1000.3	-	10.2	1.3	10.5	84	6.5	0	2	4	14	10	0	0	0	0	0	0	1	2	12	12	2	1	0	4	9	15	2	3	1	4	2	6	7	4	1
21	197	1001.5	-	8.4	0.8	9.9	89	5.0	5	2	6	10	6	1	0	0	0	0	0	2	6	11	7	3	0	0	1	8	19	2	1	4	4	3	5	7	4	0		
3	79	1001.2	-	8.3	1.0	9.5	86	5.2	4	6	2	5	13	0	0	0	0	1	0	0	3	14	11	1	0	0	7	20	3	0	2	1	3	12	6	2	1			
9	79	1000.7	-	8.5	1.0	9.7	87	6.7	0	1	3	17	8	1	0	0	0	1	0	0	2	4	5	12	6	0	0	11	15	4	2	0	3	5	7	8	1	0		
Gloucester Gloucester	H	15	79	1000.5	-	10.6	1.7	10.1	78	6.6	0	1	4	16	9	0	0	0	0	0	0	1	4	6	11	3	5	0	0	16	14	0	4	1	2	4	7	8	3	1
21	79	1001.7	-	8.9	1.1	9.8	85	5.4	5	3	1	10	11	0	0	0	0	0	0	5	4	9	9	3	0	0	10	16	4	2	1	1	4	8	10	0	0			
3	751	1001.0	-	6.2	0.3	9.1	95	5.5	5	2	2	8	8	5	0	0	4	3	0	3	3	5	8	4	0	0	4	8	18	0	2	0	3	7	11	4	0	0		
9	751	1001.2	-	6.7	0.4	9.4	94	6.6	0	4																														







TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, November 1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	60	9, 16	6	6	27.3	30	54	9	6	6	21.8	30	67	9	11	8, 11, 28	33.4	30
Eskdalemuir Observatory ...	125	16	11	10, 21	56.8	30	86	6	10	21	38.9	30	127	20	12	21	62.2	30
Cambridge ...	151	2	10	30	80.6	30	95	2	10	30	55.0	30	-	-	-	-	-	-
Kingsway ...	153	4	16	29	77.1	30	106	2	16	29	57.3	30	145	4	16	29	74.3	30
Kew Observatory ...	173	2	15	29	79.1	30	96	2	15	29	54.4	30	191	2	17	29	87.3	30
Aberporth ...	200	3	20	28	87.9	30	96	6	20	28	56.0	30	-	-	-	-	-	-

TABLE VIII—NUMBER OF DAYS IN November 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								STATION	MINIMUM TEMPERATURE °C.							
	0° or less	0° to 5°	5° to 10°	10° to 15°	15° to 20°	20° to 25°	Above 25°	Above 30°		0° or less	0° to 5°	5° to 10°	10° to 15°	15° to 20°	20° to 25°	Above 25°	Above 30°
Lerwick Observatory ...	0	7	23	0	0	0	0	0	0	0	6	13	0	0	0	0	0
Stormoway ...	0	3	16	11	0	0	0	0	0	0	4	14	12	0	0	0	0
Craibstone ...	0	4	24	2	0	0	0	0	0	0	6	14	10	0	0	0	0
Rothsay ...	0	2	15	13	0	0	0	0	0	0	1	15	14	0	0	0	0
Renfrew ...	0	7	10	13	0	0	0	0	0	0	8	10	12	0	0	0	0
Eskdalemuir Observatory ...	0	7	18	5	0	0	0	0	0	0	9	11	10	0	0	0	0
Douglas ...	0	0	12	18	0	0	0	0	0	0	0	12	18	0	0	0	0
Cockle Park ...	0	1	21	8	0	0	0	0	0	0	4	16	10	0	0	0	0
Gorleston ...	0	0	11	19	0	0	0	0	0	0	1	9	16	4	0	0	0
Cambridge ...	0	0	10	18	2	0	0	0	0	0	4	12	13	1	0	0	0
Edgbaston ...	0	0	13	17	0	0	0	0	0	0	0	0	0	0	0	0	0
Kew Observatory ...	0	0	9	20	1	0	0	0	0	0	0	0	0	0	0	0	0
Hastings ...	0	0	8	22	0	0	0	0	0	0	0	0	0	0	0	0	0
Southampton ...	0	0	6	17	7	0	0	0	0	0	0	0	0	0	0	0	0
Stonyhurst ...	0	0	13	17	0	0	0	0	0	0	0	0	0	0	0	0	0
Bidston ...	0	0	13	17	0	0	0	0	0	0	0	0	0	0	0	0	0
Valley ...	0	0	6	22	2	0	0	0	0	0	0	0	0	0	0	0	0
Falmouth ...	0	0	3	27	0	0	0	0	0	0	0	0	0	0	0	0	0
Aldergrove ...	0	0	17	13	0	0	0	0	0	0	0	0	0	0	0	0	0
Armagh ...	0	1	12	17	0	0	0	0	0	0	0	0	0	0	0	0	0

TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, — ADDITIONS AND CORRECTIONS

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Eskdalemuir March 1956											108.4							

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS						EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days										BRIGHT SUNSHINE					
				Means of		Difference between Mean of A and B	Highest Maximum and Lowest Minimum					Total Fall	Per-centage of Average	Most in a day		Precip'n 4hrs (0.2mm. or over)	Precip'n 4mins (1.0mm. or more)	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 5° C.	Gale	Daily Mean	Per-centage of Average	
				A	B		Maximum	Date	Minimum	Date	1 ft.			4 ft.	Amount														Date
				Max. Min.																									
1961	Nutts Corner	G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr.	%			
July		21-9	338									2.40																	
Annual												36.17																	
1963	Fyvie Castle	9-9	218																										
August	Portland Bill	21-9	35									2.38	125				18	16											
	Fowey	9-9	51									3.65	71				18	15											

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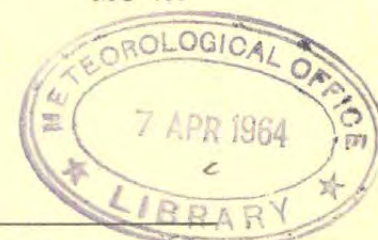


# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Summary of observations compiled from returns of official stations and voluntary observers*

MO 739



Volume 80 Number 12

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## December 1963 — Cold and exceptionally dry.

During the first twelve days weather slowly changed from being mainly cyclonic in character to anticyclonic (on 7th-9th) and then back again to cyclonic. Thereafter it was predominantly anticyclonic apart from around the 25th and the last three days of the month.

The very wet weather of November soon became unusually dry in December. A depression to the west of Ireland brought rain to most districts on the 1st, but on the 2nd the depression moved westwards into the Atlantic as it filled rapidly, and for the rest of the first week pressure was high to the north and low to the south-west of the British Isles. Winds were mainly easterly, reaching gale force at times in the south-west on the 3rd, but otherwise were mostly light or moderate. Weather became progressively colder by day and was generally dull and dry except for some light local rain, principally in the south. There were some good sunny periods in the west towards the end of the week.

On the 8th the centre of high pressure moved from the north to the east of the British Isles and winds became light and variable. Overnight fog, with visibility down to 10 yards locally in southern England, persisted locally throughout the day; in parts of the south-west temperature rose little above freezing in foggy areas. Patchy fog spread to northern England on the 9th and 10th, as a trough from the Atlantic slowly approached the British Isles.

A depression formed off south-west England on the 10th and the next day weather became temporarily milder as rain spread slowly to southern and central districts. However, the rain belt soon moved away as an anticyclone to the north of Scotland increased in intensity and winds backed towards the east bringing snow and sleet showers to most districts, including the Channel Isles, on the 13th and 14th.

The weather pattern changed on the 14th with the movement of an anticyclone to north-west Scotland; winds in eastern districts backed further towards the north and weather in northern and central districts became temporarily less cold, snow showers on the 15th and 16th being mainly confined to south-east England. Meanwhile, the anticyclone off Scotland had declined somewhat and by the 16th a pronounced ridge of high pressure extended southwards over the British Isles from an intensifying anticyclone near Greenland. The northerly airstream over the country tended to become more and more of arctic origin until on the 18th, a cold front, moving southward in the airstream, brought snow to many northern and eastern districts. On the morning of the 19th, ground was snow-covered up to a level depth of 3 inches in many places from Aberdeen to Durham.

A very cold, sunny spell followed. Winds gradually became light and variable as an anticyclone, which formed to the west of Ireland on the 20th, intensified and moved eastwards over the British Isles. Frost was widespread every night until the 23rd/24th, and sunshine at many places exceeded six hours daily. By the 23rd the anticyclone was centred over western Europe and weather in the extreme west of the United Kingdom became less cold with light southerly winds; patches of fog formed in many eastern districts.

On the evening of the 24th a depression to the west of Ireland deepened rapidly as it moved north, and associated fronts brought rain to most districts that night and for much of Christmas Day, with a rapid rise of temperature. Fog formed quickly after the rain, and during the next three days it was foggy over much of southern England with occasional rain and day temperatures about average.

The fog was cleared on the morning of the 29th by freshening wind and frontal rain spreading in from the Atlantic, and the month ended mild and rather wet with fresh to strong south-westerly winds reaching gale force at times in the north.

**Pressure and Wind** — Mean pressure was above the average generally, the excess ranging from 9.9 mb at Lerwick to 0.3 mb at Scilly. Surface winds were mainly between east and south-east until the 13th and mainly from a northerly direction until the 20th, after which light variable winds were followed by southerlies on the 23rd-24th and south-westerlies during the rest of the month. Winds reached gale force on 19 days in Scotland and on the 1st-4th, 11th-13th, 18th, 19th, 23rd-26th and 29th-31st in England and Wales. Gales were rather widespread in western districts of England on the 3rd and in western Scotland on the 23rd-25th when gusts of 80 kt were recorded in the Hebrides.

**Temperature** — Mean temperature was below the 1931-60 average, the deficit being 1.9°C in England and Wales, 0.9°C in Scotland and 1.7°C in Northern Ireland. Maximum temperatures in south-east England were 2.5°C below the monthly average in sharp contrast with 1.7°C above the average in this area during November. There was a very cold spell from the 19th to the 23rd.

Extremes included: (England and Wales) 13.3°C at Penzance on the 2nd, -13.9°C at Worsop on the 24th; (Scotland) 13.3°C at Achnashellach and Kinlochewe on the 28th, -11.7°C at Glentress on the 20th; Northern Ireland 12.2°C at Ballyhalbert on the 1st and at Stormont Castle on the 28th, -10.6°C at Loughmore Forest and Baronscourt Forest on the 19th.

**Precipitation** — The month was exceptionally dry following a very wet November. Expressed as a percentage of the 1916-50 average the general precipitation was only 33 over England and Wales, 39 over Scotland and 25 over Northern Ireland where it was the driest December since comparable records began in 1900. Rainfall was less than 25 per cent of the average over some east coast areas of Scotland, south-west Scotland, North and West Wales, the Midlands and over parts of Sussex and Kent; many places in these areas had between two and three weeks without measurable rain from the 1st. It was the driest December at Edinburgh since 1908.

Thunder was heard in Scotland on the 1st, 18th and 31st and in the extreme south-west of Cornwall on the 1st.

Snow was reported on 23 days in Scotland and ground was snow covered in many areas on 14 days. Further south it occurred, mainly in eastern England, on the 13th-15th and 17th-24th. Ground was snow-covered to a depth of 3 inches in parts of north-east England on the 19th.

**Sunshine** — The general sunshine expressed as a percentage of the 1931-60 average was 111 over England and Wales, 107 over Scotland and 135 over Northern Ireland. Parts of north-west England and western Scotland had more than 170 per cent of their average sunshine.

**Fog** — Fog was observed at 9 hr at one place or another on 26 days in Scotland and every day, except the 14th, in England and Wales. Fog persisted for much of the day in many parts of southern England from 23rd to 28th.

**Miscellaneous phenomena** — The aurora was visible in Scotland on 12 nights.



TABLE I—DISTRICT VALUES— December 1963 (1908, revised 1928, 1941 and 1956)

DISTRICTS	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUN-SHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
			Max.	Min.	Mean					
DISTRICTS	Highest	Lowest	Max.	Min.	Mean	At 1 ft. Difference from Average	At 4 ft. Difference from Average	Per-centage of Average	No. of Days Difference from Average	Per-centage of Average
0 SCOTLAND, N.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	%	%	%
Eastern	13.3	-9.4	-0.9	-0.9	-0.9	—	—	42	-5	103
1 SCOTLAND, E.	12.5	-11.7	-1.2	-0.5	-0.8	—	—	31	-5	104
2 ENGLAND, N.E.	11.1	-11.7	-1.4	-1.2	-1.3	+0.2	+0.3	50	-2	77
3 ENGLAND, E.	10.0	-11.7	-2.1	-2.0	-2.0	-0.9	-0.2	33	-6	108
4 MIDLAND COUNTIES	11.1	-13.9	-2.1	-2.1	-2.1	-1.0	+0.2	30	-7	116
5 ENGLAND, S.E.	11.7	-11.1	-2.5	-2.3	-2.4	-1.5	-0.5	30	-7	108
Western										
6 SCOTLAND, W.	12.2	-11.1	-0.9	-0.9	-1.0	-1.0	-0.3	33	-11	114
7 ENGLAND, N.W. (and N. Wales)	12.8	-10.6	-1.6	-1.7	-1.6	-1.1	+0.5	21	-13	154
8 ENGLAND, S.W. (and S. Wales)	13.3	-10.0	-2.3	-2.3	-2.3	-1.1	-0.3	36	-9	103
NORTHERN IRELAND	12.2	-10.6	-1.3	-2.1	-1.7	-	-	25	-10	135

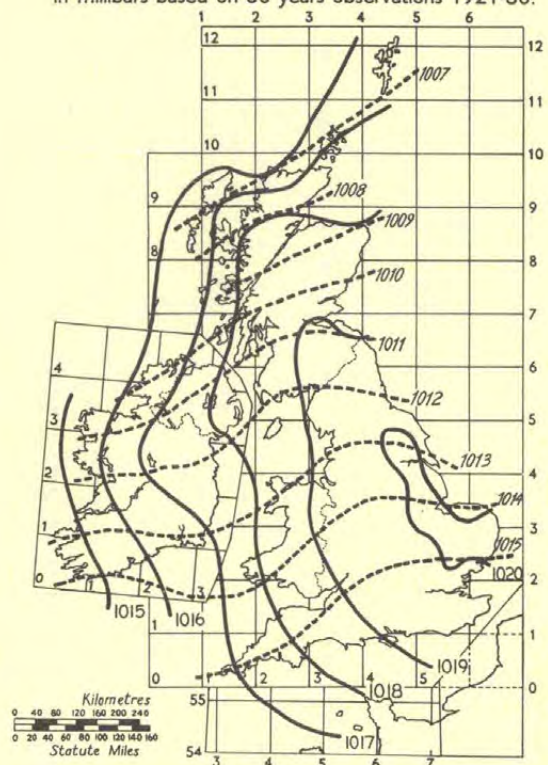
TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND— December 1963 (1914)

DISTRICT, COUNTY AND PLACE		Height of Vane			Distribution of Mean Hourly Values of Wind Speed										Mean Hourly Wind Speed	Highest Velocities					
		Above Mean Sea Level	Above Ground	Effective Height	34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Highest Hourly Wind			Highest Gust					
					Dates of Occurrence	Duration	No. of days	Duration	Duration	Duration	Duration	Duration	Duration	Duration		Speed	Hour ended at	Speed	Day and Time		
		ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	knots	from N	Speed	day hr.	knots	day	h.m.			
SCOTLAND																					
0	Zetland	Lerwick Observatory	304	33	33	18, 23-27	67	12	121	155	345	56	0	14.4	170	46	25	08	79	26	1605
	Orkney	Kirkwall	134	50	33	25	4	12	139	243	307	51	0	13.1	160	36	25	06	60	25	1845
	Caithness	Dounreay	110	39	30	23, 25	3	6	30	240	381	90	0	9.7	170	36	25	07	59	25	0630
	Ross & Cromarty	Stornoway (Coastguard)	120	40	36	22-25, 27-29	84	14	105	322	142	91	0	16.8	190	58	24	01	80	24	0405
	Duirinish		125	65	55	23-25, 27, 28	27	11	98	208	282	126	3	11.9	180	46	24	07	70	24	0615
	Inverness	Benbecula	69	51	35	22-25, 27, 28	82	16	125	268	129	140	0	15.7	160	52	25	04	78	25	0240
1	Moray	Lossiemouth	101	80	60	-	0	6	35	231	320	157	1	8.8	200	28	23	05	51	25	0645
	Aberdeen	Dyce	225	40	40	-	0	6	32	185	295	232	0	7.6	190	31	23	23	49	23	2210
	Angus	Auchterhouse	822	62	50	*															
	Perth	Bell Rock Lighthouse	128	131	124	23-25, 27, 30	12	18	222	393	86	31	0	17.8	160	39	25	05	51	25	0435
	Fife	Rannoch	1006	56	57	23, 24	3	12	79	263	195	169	35	10.9	220	36	23	12	52	25	1325
	Midlothian	Leuchars	78	40	40	-	0	5	17	285	324	118	0	9.8	220	26	28	04	45	28	0250
		Turnhouse	137	40	33	-	0	5	23	244	354	123	0	9.1	190	30	25	08	47	25	0655
6a	Argyll	Edinburgh, Blackford Hill	496	50	34	25, 27-30	17	10	74	221	313	77	42	11.4	180	42	29	04	65	25	0725
	Bute	Tiree	89	60	47	22-25, 27, 28	70	16	183	290	140	61	0	18.1	170	50	24	02	71	24	0305
	Renfrew	Millport	50	34	34	2, 3	8	10	75	295	214	143	9	11.7	050	40	2	22	55	3	1505
		Paisley	188	81	31	-	0	2	5	168	307	264	0	6.5	180	24	29	02	51	30	1005
		Renfrew	71	41	39	-	0	5	17	210	326	191	0	7.9	220	31	30	11	50	30	0945
	Lanark	Lowther Hill	2412	43	33	2-4, 11, 25, 27	43	18	237	305	148	11	0	18.3	250	44	30	13	65	30	1225
	Ayr	Prestwick Airport	68	33	33	-	0	4	11	262	287	184	0	8.8	160	30	25	04	50	25	0345
	Dumfries	Eskdalemuir Observatory	825	50	35	-	0	4	15	158	286	285	0	6.6	200	28	28	08	46	29	1100
	Wigtown	West Freugh	81	33	33	-	0	13	97	257	310	80	0	11.5	150	33	25	01	46	25	0025
ENGLAND AND WALES																					
6b	Isle of Man	Ronaldsway	119	64	39	3, 11, 12, 25, 29, 30	31	20	288	269	136	20	0	19.0	180	45	25	05	62	25	0440
		Point of Ayre	64	33	33	25, 30	5	16	161	404	154	20	0	15.8	140	36	25	03	51	25	0240
2	Durham	Durham	389	53	33	-	0	2	2	183	346	213	0	7.3	210	22	30	13	40	30	1245
		South Shields	73	57	44	-	0	2	4	367	297	76	0	10.3	070	23	3	13	44	18	2225
	Lincoln	Cranwell	288	47	47	-	0	2	8	216	410	110	0	8.6	230	24	30	13	40	30	1100
3	Norfolk	Gorleston	45	33	33	-	0	3	10	394	329	11	0	11.3	190	30	25	09	41	25	0810
	Suffolk	Mildenhall	98	83	60	-	0	0	0	132	511	101	0	7.3	210	20	30	13	37	30	2200
	Bedford	Cardington	226	133	133	-	0	4	16	333	335	60	0	10.1	210	27	30	14	41	30	1805
	Hertford	Garston	307	50	33	-	0	0	0	26	562	156	0	5.3	080	14	3	13	29	3	0810
		Rothamsted	461	41	33	-	0	0	0	53	585	106	0	6.3	050	17	3	07	37	3	0715
	Essex	Stansted	358	31	31	-	0	0	0												
		Coryton	66	57	48	-	0	0	0	144	482	118	0	7.1	070	17	3	13	32	12	1250
		Shoeburyness	118	106	91	13	1	14	109	352	240	42	0	13.7	070	34	13	02	44	25	0955
4	Yorks, W.R.	Sheffield	533	83	35	-	0	0	0	32	429	273	10	4.8	180	15	25	06	36	30	1545
	Warwick	Edgbaston	643	118	73	-	0	0	0	59	618	67	0	6.6	060	20	3	13	36	3	0640
		Elmdon	362	30	31	-	0	1	4	153	459	128	0	7.6	170	23	25	05	36	29	1315
	Stafford	Keele	706	50	33	-	0	2	8	152	430	154	0	7.5	060	24	3	14	47	3	1410
	Gloucester	Avonmouth	92	61	33	-	0	5	15	269	272	188	0	8.4	190	30	25	07	44	25	0540
5	London	Kingsway	208	143	41	-	0	0	0	109	563	72	0	7.3	070	18	3	14	37	3	0605
	Middlesex	London (Heathrow) Airport	115	33	33	-	0	0	0	177	439	128	0	7.8	060	21	12	14	34	3	1115
		Hampton	139	101	100	-	0	0	0	104	415	225	0	6.0	070	20	3	12	38	12	1205
	Surrey	Kew Observatory	92	75	50	-	0	0	0	206	409	129	0	7.9	080	21	3	13	39	3	1145
		Gatwick	232	38	33	-	0	0	0	94	396	254	0	5.6	070	19	3	13	34	25	0555
	Kent	Isle of Grain	48	40	33	-	0	0	0	166	420	158	0	7.2	070	21	12	21	34	24	0715
		Dover	68	38	62	-	0	6	32	337	331	32	12	11.2	180	29	25	07	42	25	0610
	Sussex	Thorney Island	75	65	42	-	0	1	1	174	362	207	0	6.8	220	22	25	12	35	25	0655
	Hampshire	Hurn	86	53	46	-	0	1	1	200	417	126	0	7.9	210	23	25	11	34	25	1100
		Calshot	50	41	33	-	0	5	19	415	302	8	0	12.1	210	26	25	12	34	25	1135
		S. Farnborough	313	69	35	-	0	0	0	76	408	260	0	5.3	220	15	29	14	38	25	0530
	Berkshire	Abingdon	295	40	40	-	0	0	0												
	Wiltshire	Larkhill	491	51	36	-	0	1	9	278	357	100	0	9.3	050	26	3	12	43	3	1110
		Boscombe Down	425	55	55	-	0	2	10	204	359	171	0	7.8	060	29	3	13	46	3	1220
		Porton	406	44	44	-	0	2	14	196	336	198	0	7.8	060	31	3	12	45	3	1245
7a	Cumberland	Carlisle	137	42	30	-	0	4	15	187	369	173	0	7.6	220	28	30	14	46	30	1335
		Sellafield	83	39	35	-	0	7	29	230	387	85	13	9.5	170	28	25	02	45	25	0140
		Spadeadam	954	51	40	-	0	9	57	282	327	65	13	11.1	220	31	30	15	47	30	1425
	Westmorland	Moor House	1960	50	45	11, 23, 29, 30	8	14	174	335	146	57	24	15.3	220	39	23	12	54	23	1110
	Lancashire	Southport	59	41	33	-	0	4	22	183	302	237	0	7.5	090	30	3	11	45	3	1515
		Fleetwood	112	50	31	-	0	0	0												
		Speke	84	41	33	25, 30	4	5	26	233	385	96	0	9.6	220	36	30	13	57	30	1150
		Manchester W/Centre	268	147	55	-	0	2	17	162	405	160	0	7.6	060	30	3	16	60	3	1510
	Ches. 2	Bidston Observatory	262	64	39	-	0	7	39	366	291	48	0	8.7	080	23	3	06	49	3	1355
		Ringway	261	33	33	-	0	6	41	185	426	92	0	8.7	070	32	3	16	54	3	1430
7b	Anglesey	Valley	86	53	40	3, 24, 25, 30	17	14	187	204	257	79	0	14.1	160	46	25	05	65	25	0410
8a	Cardigan	Aberporth	483	41	41	-	0	11	112	394	196	42	0	13.6	130	32	24	24	56	24	2120
	Glamorgan	Port Talbot	91	40	35	-	0	4	33	266	348	94	0	10.1	060	36	3	10	60	3	0930
		Rhoose	257	37	32	-	0	5	31	317	320	75	0	10.8	060	37	3	12	52	3	1110
8b	Devon	Plymouth Hoe	191	88	65	24, 25	7	9	31	275	295	136	0	9.8	-	37	25	04	49	25	0315
	Cornwall	St. Mary's, Scilly	230	65	57	3, 24, 25	15	20	188	425	81	35	0	16.9	090	41	3	14	62	3	1255
		The Lizard	315	75	60	3, 24, 25	23	20	185	357	153	10	16	17.0	070	42	3	10	64	3	0835
NORTHERN IRELAND																					
	Londonderry	Ballykelly	52	50	35	24	1	7	30	243	152	318	0	7.8	170	35	24	24	60	24	2250
	Antrim	Aldergrove	263	33	33	-	0	12	75	279	213	177	0	10.5	160	33	25	03	53	25	0125
CHANNEL ISLES																					
		Jersey Airport	359	85	50	-	0	8	30	38											

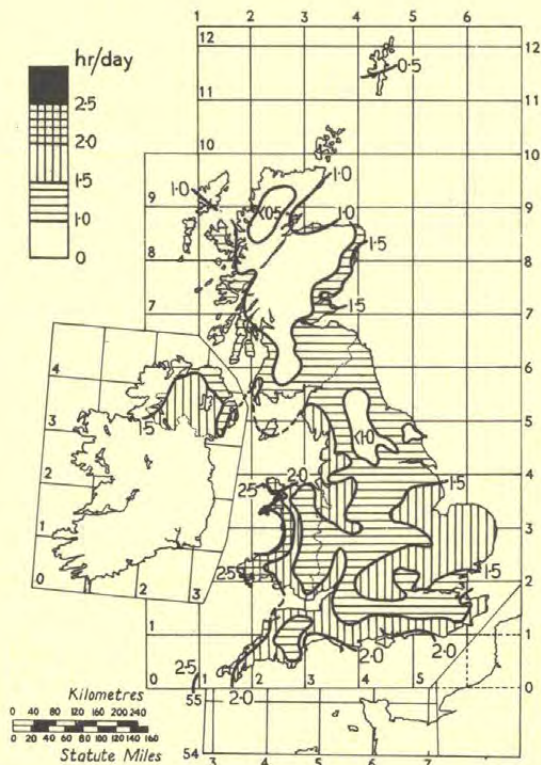


## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

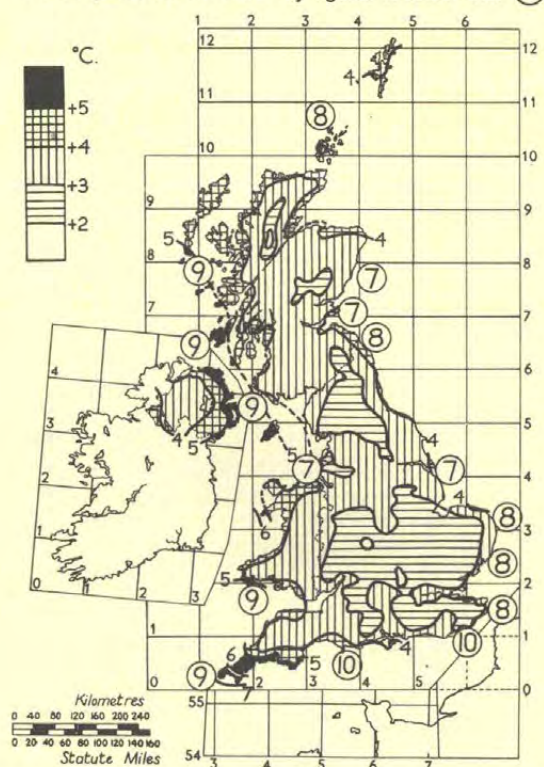


## BRIGHT SUNSHINE

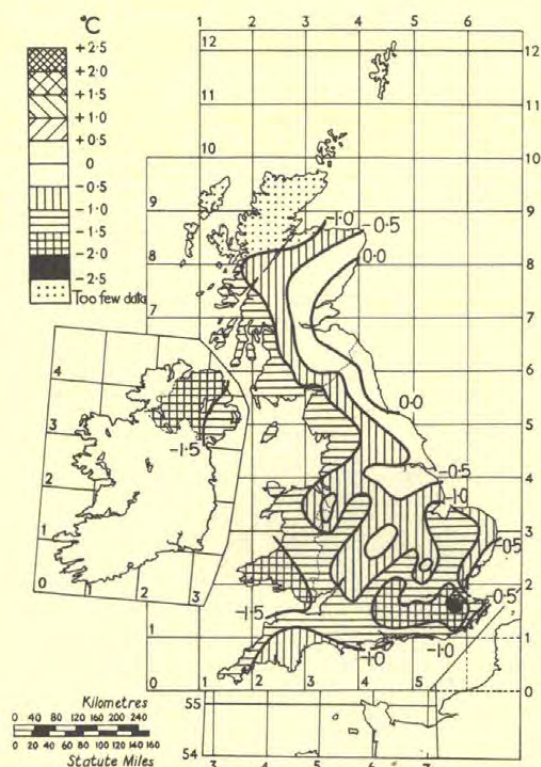


## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of 1°C. for 500 ft. Sea temperatures are shown by figures in circles thus ⑩



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE





# RAINFALL

## DECEMBER 1963

The equivalent values in mm, are given in round numbers. The exact relation is 10 in. = 254 mm.

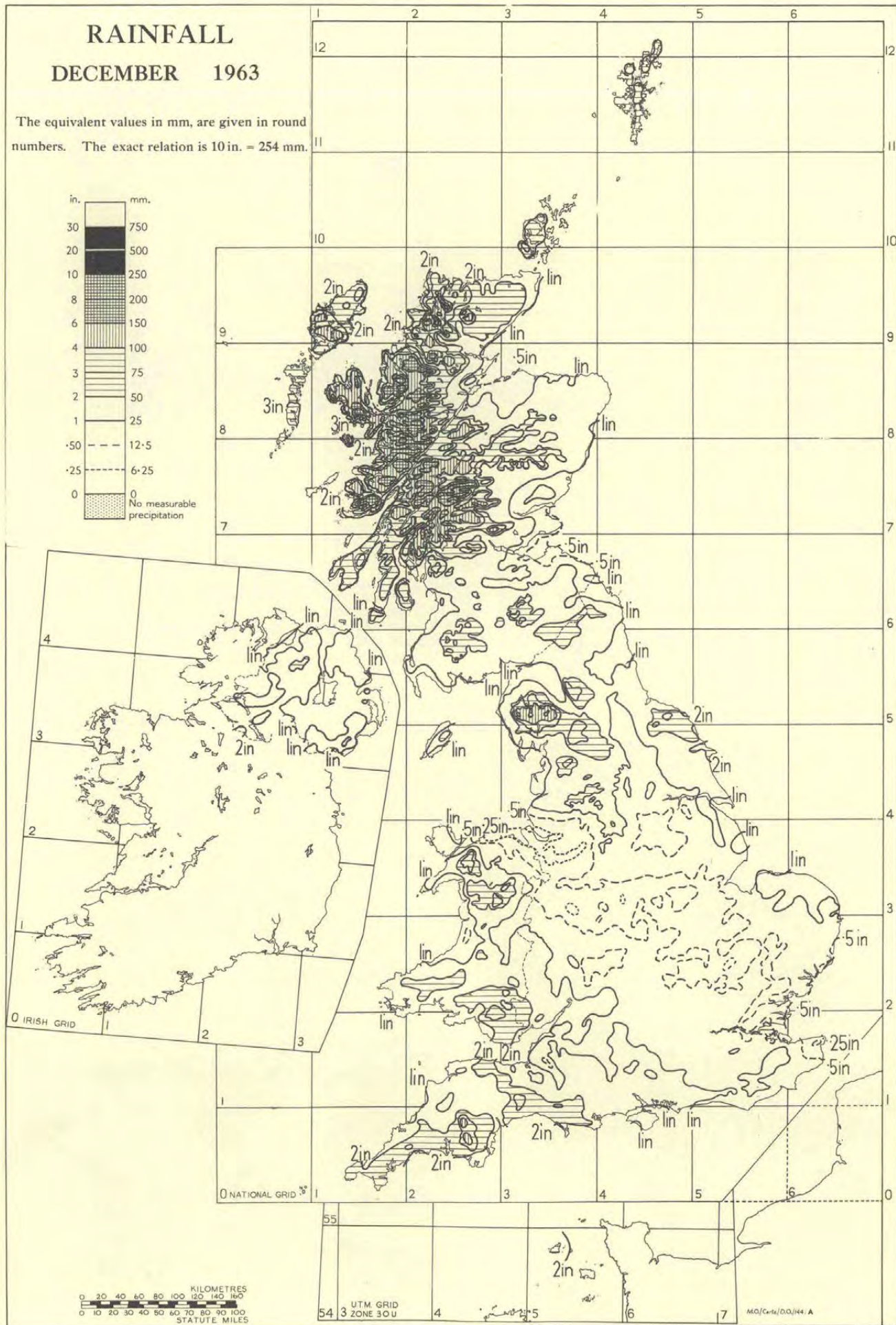
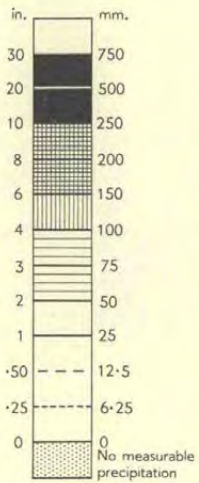




TABLE III — SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE				
			Means of		Mean Temperature Mean of A and B	Difference from Average °	Highest Maximum and Lowest Minimum					Total Fall	Per-centage of Average	Most in a day	Precip'n			Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost + ° C	Grass min below ° C	Gale	Daily Mean	Per-centage of Average		
			A	B			Maximum	Date	Minimum	Date	1 ft.				4 ft.	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more												Date	
			°C.	°C.			°C.	°C.	°C.	°C.	°C.				°C.	in.	%											in.	in.	in.
0 SCOTLAND, N.	G.M.T.	ft.																												
Zetland																														
Hamnavoe	9 9	70	6.2	2.8	4.5	-	10.0	27,28	-2.2	19,22	-	-	2.70	58	27	24	12	5	5	4	0	0	0	6	-	5	0.61	-		
Lerwick Obs'y.	21-9	269	5.1	1.8	3.5	-0.9	11.0	28	-5.7	21	-	-	2.34	53	48	27	25	17	9	6	1	8	1	1	6	12	10	0.57	127	
Baltsound	9 9	78	5.8	1.7	3.7	-	10.0	27,28	-6.1	21	4.9	-	3.15	62	51	27	23	18	8	4	3	0	0	6	-	5	0.29	-		
Orkney																														
Sule Skerry	9 9	43	7.1	4.8	5.9	-	10.8	26	-1.3	18	-	-	2.14	-	37	31	20	13	3	0	0	0	0	1	6	6	-	-		
Stenness	9 9	75	5.7	1.7	3.7	-	11.7	27	-3.3	22	4.2	-	2.22	-	22	29	16	8	5	0	2	0	0	7	23	3	0.71	-		
Costa	9 9	115	5.1	2.7	4.4	-	11.1	27,28	-1.7	19,22	-	-	2.18	-	30	25	23	16	8	4	7	1	0	0	6	8	6	0.73	-	
Kirkwall	21-9	84	5.9	2.6	4.3	-	10.9	27	-2.0	13,22	-	-	1.60	35	24	25	19	14	10	4	6	0	0	0	6	12	3	0.76	92	
Caithness																														
Dounreay	9 9	70	6.8	1.2	4.0	-	12.2	27,29	-3.9	23	-	-	1.67	-	33	30	22	14	3	2	0	2	0	0	6	15	2	-	-	
Wick	21-9	119	5.7	2.2	3.9	-0.7	10.2	27	-5.0	22	-	-	1.15	39	23	20	18	9	6	4	0	3	0	0	9	15	1	0.97	86	
Sutherland																														
Cape Wrath	21-9	367	6.6	3.6	5.1	-0.6	11.5	28	-2.5	18	-	-	2.22	45	52	30	15	11	5	2	0	0	0	2	5	7	-	-	-	
Achany	9 9	280																												
Strathay	9 9	120	5.7	0.9	3.3	-0.7	12.2	27	-5.0	13	-	-	1.91	43	42	30	23	15	7	0	0	3	0	10	-	0	0.72	100 S		
Ross & Cromarty																														
Stornoway	21-9	11	6.9	2.2	4.5	-1.0	11.4	27	-4.9	19,20	-	-	2.29	56	44	30	21	15	6	1	1	4	0	0	9	16	6	0.89	105	
Balmacara	9 9	2	7.2	1.8	4.5	-	12.2	27	-4.4	19	-	-	3.87	-	1.19	28	16	12	-	3	-	-	-	8	-	-	-	-	-	
Poolwee	9 9	20	7.1	1.9	4.5	-	12.2	28,29	-3.3	19	-	-	4.66	-	1.13	28	17	14	1	-	0	0	0	0	7	18	3	1.24	- S	
Inverpoll	9 9	45	6.7	1.2	3.9	-	12.2	28	-5.0	19,20	-	-	3.14	-	(.60)	30	17	15	5	3	0	0	0	0	10	-	0	-	-	
Achnashellach	9 9	220	6.6	0.6	3.0	-1.1	13.3	28	-7.8	19	-	-	4.66	54	1.26	29	17	13	4	6	0	0	0	0	14	-	0	-	-	
Kinlochewe	9 9	76	5.4	0.2	3.3	-	13.3	28	-7.2	19	4.1	-	5.39	-	1.18	30	16	14	6	6	0	0	0	0	13	23	0	0.48	- S	
Blackbridge	9 9	690	4.9	-1.3	1.8	-	(11.7)	27	-8.9	20	-	-	2.59	-	.62	30	15	12	-	-	-	-	-	0	14	24	-	0.56	-	
Fortrose	9 9	15	6.0	2.6	4.3	-0.9	11.1	28	-2.2	20	-	-	.50	24	.13	30	11	4	-	2	-	-	-	0	5	-	-	0.91	80	
Inverness																														
Tarbatness	21-9	60	5.9	2.8	4.3	-	11.0	28,29	-2.0	19	-	-	.45	-	.17	30	9	4	7	2	0	0	0	0	6	-	0	-	-	
Benbecula	21-9	19	6.6	2.3	4.5	-1.4	10.5	28	-4.0	19	-	-	2.47	54	.41	24	19	13	3	1	0	3	0	0	11	14	9	1.15	-	
Isle of Rhum	9 9	15	6.9	1.7	4.3	-	11.7	27	-3.9	14	4.8	7.8	4.32	-	.80	28	15	13	2	2	1	4	0	0	9	25	6	-	-	
Prabost	9 9	220	5.8	1.6	3.7	-	10.0	27,28	-2.2	20,21	-	-	4.88	-	.84	28	22	18	3	4	0	7	0	0	8	24	6	1.37	-	
Duntulm	9 9	294	6.7	2.3	4.5	-1.1	10.0	27,28	-1.1	13	-	-	2.97	53	.40	29	19	19	4	2	0	3	0	0	5	15	3	1.24	162 S	
Onich	9 9	48	6.7	1.4	4.1	-0.8	12.2	28	-6.1	20	-	-	3.11	36	.90	30	12	9	3	0	0	0	0	0	10	17	0	0.79	117 S	
Fort William	9 9	27	6.7	0.0	3.3	-	12.2	28	-7.8	20	3.2	5.4	2.21	-	.50	29	12	8	5	0	0	1	0	0	13	21	2	0.96	- S	
Fort Augustus	9 9	70	5.6	0.2	2.9	-1.0	11.7	28	-6.1	20	-	-	2.80	-	.69	30	17	10	9	0	0	0	0	0	12	-	3	0.76	- S	
Cannich	9 9	350	4.5	-2.4	1.1	-	12.8	27	-9.4	13,14	-	-	2.50	50	.58	30	12	10	2	1	0	0	0	0	19	26	0	-	-	
Inverness	9 9	13	6.6	-0.4	3.1	-	11.7	28	-6.1	13	-	-	.86	-	.20	28	10	7	0	0	0	0	0	1	13	25	0	0.60	-	
Achnagoichan	9 9	1000	4.2	-1.6	1.3	-	10.6	27	-7.2	13,14	2.6	-	1.30	-	.22	30	17	12	-	-	-	-	-	-	19	26	-	-	-	
Glenmore Lodge	9 9	1120	4.3	-1.0	1.7	-	11.3	27	-7.2	20	-	-	1.56	-	.28	18	19	14	-	15	-	-	-	0	19	26	-	0.61	- S	
1 SCOTLAND, E.																														
Nairn	9 9	20	6.1	0.4	3.3	-0.9	12.2	27	-5.6	13	-	-	.59	31	.10	6	15	5	1	2	0	0	0	0	11	18	0	1.15	95	
Moray																														
Grantown-on-Spey	9 9	720																												
Forres	9 9	155	5.6	0.8	3.2	-	11.7	27	-5.6	13,14	2.6	5.2	.45	26	.10	6	13	4	2	2	2	0	0	0	10	16	0	1.48	103	
Kinloss	21-9	15	5.9	1.5	3.7	-	12.5	27	-7.1	13	3.4	-	.46	-	.13	6	12	3	5	2	0	5	0	0	0	12	14	2	1.30	-
Elgin	9 9	92	6.4	1.4	3.9	-	11.7	27,28	-3.9	13	-	-	.60	-	.16	13	13	6	2	0	0	0	0	0	8	15	0	1.33	-	
Lossiemouth	9 9	21	6.4	1.1	3.7	-0.4	11.1	27,28	-6.1	13	-	-	.72	-	.23	15	16	7	7	0	0	8	0	0	9	19	0	-	-	
Gordon Castle	9 9	104	6.3	1.5	3.9	-0.3	11.7	27,28	-3.9	13,14	-	-	1.02	46	.31	19	12	8	2	5	3	0	0	-	8	-	0	0.99	90	
Banff	9 9	80	6.6	2.1	4.3	-	11.1	28	-2.8	23,25	-	-	1.10	-	.24	18	12	11	4	2	2	0	0	0	4	-	2	0.78	-	
Aberdeen																														



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						Means of		Difference from Average		Highest Maximum and Lowest Minimum						Total Fall		Percent- age of Average		Most in a day		Precip'n		Snow or Sleet		Snow lying at 9h.		Ice or snow pellets etc.				Thunder heard		Fog at 9h.		Air Frost 1st		Grass min. below 0° C		Gale		Daily Mean		Percent- age of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
A	B	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	%	in.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER										BRIGHT SUNSHINE					
			Means of				Highest Maximum and Lowest Minimum						Total Fall	Percentage of Average	Most in a day	Precip'n		Number of days												
			A Max.	B Min.	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	in.	%	in.	Date	-0.1in. (0.2mm.) or more	-0.4in. (1.0mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost †	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average	
			°C.	°C.	°C.	°C.	°C.		°C.		°C.	°C.																hr	%	
2 ENGLAND, N.E.—cont.			G.M.T.	ft.																										
Northumb-berland cont.	Haydon Bridge	9 9	270																											
	Corbridge	9 9	160	5.8	-0.8	2.5	-	11.1	29	-8.3	23	-	-	.64	-	.21	30	11	7	4	3	0	1	0	1	15	20	0	-	-
Durham	Berwick-on-Tweed	9 9	76	6.3	1.9	4.1	-0.6	10.6	30	-6.1	25	-	-	.69	41	.15	14	14	8	4	2	0	3	0	0	10	13	0	1.23	84
	Ponteland	9 9	220																											
	Cockle Park	9 9	326	5.3	0.7	3.0	-1.0	10.0	29	-6.1	25	3.9	-	.87	35	.24	17	15	7	4	9	0	0	0	1	10	19	0	1.31	86
	Acklington	21-9	138	5.3	1.0	3.1	-	10.4	30	-6.8	24	-	-	.92	-	.27	17	11	6	4	5	2	5	0	0	11	18	0	1.43	-
	Tynemouth	21-9	95	5.8	2.8	4.3	-1.1	10.8	30	-5.5	24	-	-	1.14	48	.35	17	10	7	6	3	4	0	0	1	8	13	0	1.03	-
	Chopwellwood	9 9	446	5.3	0.3	2.8	-1.2	11.1	28	-7.8	25	-	-	.83	33	.22	14	11	7	5	8	0	0	0	0	13	24	0	-	-
	Ushaw College	9 9	594	5.1	0.1	2.6	-1.2	10.0	28	-7.8	25	-	-	1.31	52	.28	18	11	10	3	10	0	0	0	14	11	-	-	-	
	Houghall	9 9	123	5.9	0.0	2.9	-1.0	11.1	30	-8.3	23	-	-	1.49	62	.28	14, 17	15	10	3	4	2	0	0	2	15	21	0	1.31	110
	Durham	9 9	336	5.7	0.2	2.9	-1.2	10.6	30	-7.2	25	4.1	7.1	1.47	64	.31	14	14	10	-	10	-	-	-	-	10	18	-	1.07	75
	Gateshead	9 9	509	5.0	0.8	2.9	-	10.0	30	-7.2	25	-	-	1.01	-	.25	14	12	7	-	3	-	-	-	0	9	13	-	1.18	-
Yorks.	Middleton St. George	21-9	115	5.0	0.9	2.9	-	10.8	30	-6.5	23	-	-	1.40	-	.40	14	15	10	6	9	1	2	0	3	12	21	0	1.28	-
	West Hartlepool	9 9	30	6.3	1.9	4.1	-	11.1	30	-5.6	25	-	-	1.65	-	.37	18	13	9	4	6	3	0	0	3	9	11	0	.81	-
	Dishforth	21-9	105	4.8	0.3	2.5	-	10.5	30	-10.0	21	-	-	.89	40	.34	24	16	4	3	8	0	1	0	2	12	16	0	1.26	-
	Thirsk	9 9	111	5.2	-0.2	2.5	-	10.0	30	-11.1	21	-	-	.86	-	.27	24	14	5	6	9	0	0	0	2	11	22	0	-	-
	York	9 9	57	5.3	0.9	3.1	-1.6	10.6	2, 30	-6.1	24	4.7	7.7	.84	41	.26	24	20	7	2	6	0	1	0	3	12	-	0	0.53	48
	Ampleforth	9 9	313	4.9	0.6	2.7	-1.3	9.4	30	-7.2	25	-	-	.83	32	.22	19	12	7	6	-	0	0	0	7	13	21	0	-	-
	Redcar	9 9	25	6.8	2.3	4.5	-	11.1	30	-5.6	25	-	-	1.86	93	.38	17	16	10	3	2	0	1	0	0	7	-	0	1.32	-
	Whitby	9 9	135	5.9	1.8	3.9	-	10.6	30	-6.1	25	-	-	1.76	70	.39	19	17	12	8	3	0	1	0	1	7	-	0	.59	45
	Scarborough	9 9	118	6.3	2.3	4.3	-1.0	10.6	30	-5.6	25	5.0	8.0	2.03	83	.44	19	16	13	4	9	2	0	0	0	6	10	0	0.74	62 S
	Silpho Moor	9 9	665	4.4	0.1	2.3	-	8.3	30	-7.8	25	3.8	-	2.77	-	.68	19	21	14	4	11	3	0	0	1	13	22	0	0.95	-
Yorks.	Fylingdales Moor	9 9	805	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Whitby C/Guard	21-9	200	5.4	2.0	3.7	-	10.2	30	-6.5	24	-	-	1.07	-	.43	19	12	6	4	2	2	1	0	0	8	10	3	-	-
	High Mowthorpe	9 9	574	4.2	-0.2	2.0	-	8.9	30	-7.8	25	-	-	1.73	58	.34	24	18	11	4	13	0	0	0	1	12	21	0	0.96	-
	Hull	9 9	8	5.6	1.3	3.5	-1.4	10.6	2	-6.1	24	4.3	7.8	1.02	45	.18	24	14	10	2	5	1	0	0	1	9	18	0	1.05	101
	Leconfield	21-9	24	5.1	0.7	2.9	-	10.3	2	-10.9	24	-	-	1.25	-	.26	24	15	10	8	7	0	5	0	1	11	21	0	1.06	-
	Filey	9 9	122	5.7	1.4	3.5	-	9.4	1, 2	-7.2	23	-	-	1.66	-	.35	21	17	10	6	9	2	2	0	0	10	12	0	.88	-
	Bridlington	9 9	157	5.4	1.2	3.3	-	9.4	2	-6.7	25	-	-	2.36	-	.35	16	19	12	3	8	0	6	0	0	10	21	0	.99	-
	Spurn Head	21-9	29	5.8	3.0	4.4	-0.9	10.0	2	-5.0	24	-	-	.77	-	.11	13, 14	12	9	10	3	0	1	0	1	6	-	0	1.19	83
	Gainsborough	9 9	110	5.1	0.0	2.5	-	10.6	2	-6.7	24, 25	-	-	.30	-	.05	29, 30	10	3	1	1	0	0	0	4	11	-	0	-	-
	Navenby	9 9	60	5.2	-0.4	2.4	-	9.4	2, 29, 30	-11.7	24	-	-	.75	-	.18	24	12	7	6	4	0	0	0	2	13	-	0	-	-
Lincoln	Waddington	21-9	224	4.8	0.6	2.7	-1.5	9.3	2	-9.1	24	-	-	.58	-	.15	24	10	4	8	3	0	0	0	1	11	19	0	1.66	-
	Lincoln	9 9	22	5.6	-0.4	2.6	-	10.6	2	-10.0	24	4.6	7.1	.73	-	.18	13, 25	12	6	1	7	0	0	0	5	14	21	0	1.43	-
	Cranwell	9 9	205	4.9	-0.2	2.3	-1.9	9.4	30	-9.6	24	4.0	6.9	.50	26	.19	24	12	6	3	5	0	0	0	2	9	17	0	1.77	113
	Cleethorpes	9 9	23	5.7	1.7	3.7	-1.1	9.4	1, 2	-5.6	24	-	-	.78	38	.13	24	12	9	2	7	0	1	0	0	8	15	0	1.10	77
	Manby	21-9	55	5.2	1.4	3.3	-	10.2	2	-7.5	24	-	-	.83	-	.13	14	13	11	7	8	0	5	0	2	10	18	0	1.40	-
	Skegness	9 9	15	5.7	1.4	3.5	-1.2	9.4	1, 2, 3	-3.9	24, 25	-	-	.80	40	.23	18	9	7	2	6	0	0	0	2	10	13	0	1.35	91
	3 ENGLAND, E.																													
	Norfolk	Terrington																												
		St. Clement	9 9	13	5.1	0.0	2.5	-	9.4	2	-6.7	24	3.9	-	.58	34	.12	25	12	6	2	0	0	0	0	3	13	24	0	1.56
	Suffolk	Marham	21-9	76	4.9	0.2	2.5	-	9.1	2	-7.3	24	-	-	.57	-	.15	25	11	6	6	1	0	2	0	5	14	23	0	-
Santon Downham		9 9	80	5.2	-2.3	1.5	-	9.4	2, 29, 30	-11.7	24	3.9	7.1	.76	-	.26	25	13	9	-	7	-	-	-	1	21	25	-	-	-
West Raynham		21-9	250	4.6	0.3	2.5	-	8.9	2	-7.1	24	-	-	1.05	-	.23	25	16	8	9	4	0	5	0	4	16	23	0	1.85	-
Cromer		9 9	178	5.8	1.8	3.8	-1.2	9.4	1, 2	-5.0	25	-	-	1.26	49	.31	17	16	11	-	0	-	-	-	0	4	15	-	1.56	97
Sproston		9 9	93	5.1	-0.2	2.5	-2.1	9.4	1, 2	-7.2	24	4.6	-	.96	42	.18	17	12	9	5	6	0	2	0	4	15	24	0	1.69	122 S
Burlingham		9 9	89																											



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)		WEATHER Number of days												BRIGHT SUNSHINE			
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Per-centage of Average	Most in a day	Precip'n			Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min below 0° C	Gale	Daily Mean	Per-centage of Average		
				A	B		Maximum	Date	Minimum	Date	1 ft.	4 ft.	Amount	Date	-0.1in.(0.2mm) or more	-0.01in.(0.1mm) or more															
				Max.	Min.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
4 MIDLAND COUNTIES—cont.																															
Yorks.,	Huddersfield	9 9	325	5.6	0.7	3.1	-1.3	10.6	28	-6.7	23	3.7	7.3	.92	-	.24	24	13	10	-	0	-	-	-	-	3	12	19	-	1.20	167
W. Riding—	Oakes	21-9	761	4.1	0.8	2.5	-1.5	10.0	28	-6.0	24	4.0	6.9	1.27	38	.32	24	16	10	3	0	0	0	0	1	12	20	1	1.30	120	
cont.	Bradford	9 9	439	5.1	0.6	2.9	-1.3	10.0	29	-6.1	24, 25	3.4	7.2	1.21	40	.40	24	15	9	4	2	1	0	0	1	12	19	0	-	-	
	Ilkley	9 9	315	5.5	0.4	2.9	-1.2	10.6	30	-7.8	23	-	-	.94	26	.19	24	10	8	4	1	0	0	0	0	12	-	0	0.73	66	
	Sheffield	9 9	429	5.2	1.1	3.1	-1.8	9.4	30	-6.7	24, 25	4.4	7.9	.73	25	.14	24	13	8	5	0	0	0	0	0	11	15	0	1.13	115	
	Wakefield	9 9	121	5.7	0.7	3.2	-1.3	10.6	30	-7.2	23	4.5	7.4	.63	30	.22	24	12	4	1	3	0	1	0	4	13	25	0	-	-	
	Pontefract	9 9	255	4.7	0.8	2.7	-1.7	9.4	2, 30	-7.2	24	-	-	.69	36	.27	24	11	5	1	0	0	1	0	10	11	14	1	-	-	
	Bramham	9 9	177	4.9	0.2	2.5	-	10.0	2, 30	-8.3	24	-	-	.83	34	.34	24	15	6	2	4	0	0	0	1	14	19	0	1.18	-	
	Cawood	9 9	20	5.2	0.2	2.7	-	10.6	30	-7.8	24	3.6	6.9	.99	48	.40	24	13	7	1	6	0	0	0	1	15	19	0	1.18	-	
	Askham Bryan	9 9	110	-	0.5	-	-	10.0	2, 30	-6.7	24, 25	-	-	.81	37	.31	24	13	5	-	6	-	-	-	1	13	19	-	1.01	85	
Derby	Buxton	9 9	1007	3.6	-0.4	1.6	-1.7	7.8	30	-8.3	23, 24	2.6	5.8	.91	19	.16	14	9	9	4	2	0	0	0	8	14	19	0	-	-	
	Chapel en le Frith	9 9	732	4.6	-0.8	1.9	-	8.9	30	-8.9	21	-	-	.59	-	.12	14, 30	15	5	2	0	1	0	0	0	15	25	0	-	-	
	Mackworth	9 9	293	5.3	-0.1	2.6	-	9.4	2	-10.0	24, 25	-	-	.49	-	.23	24	9	5	0	0	0	2	0	4	11	15	0	-	-	
	Belper	9 9	203	5.9	-0.3	2.8	-1.6	9.4	29, 30	-11.7	24	-	-	.66	26	.42	24	9	4	1	1	0	0	0	1	11	-	0	-	-	
	Derby	9 9	159	5.6	0.2	2.9	-	9.4	30	-10.6	24	-	-	.41	-	.23	24	8	2	2	0	0	0	0	5	12	22	0	1.28	-	
	Morley	9 9	350	4.7	0.2	2.5	-	8.3	30	-8.3	24	-	-	.65	21	.33	24	13	5	1	0	0	0	0	12	22	0	1.32	-		
	Chesterfield	9 9	298	5.2	-0.1	2.6	-	10.0	30	-10.6	24	-	-	.38	-	.13	24	11	3	3	0	0	0	0	13	-	0	-	-		
Nottingham	Sutton Bonington	9 9	157	5.4	-0.4	2.5	-1.9	9.4	29, 30	-10.6	24	5.1	7.6	.39	20	.16	24	10	3	0	0	0	2	0	2	12	23	0	1.48	133	
	Wainall	21-9	385	4.5	0.7	2.6	-	8.5	30	-8.7	24	-	-	.74	32	.43	24	11	4	3	0	0	1	0	5	13	20	0	1.10	-	
	Mansfield	9 9	362	4.8	0.3	2.5	-1.8	8.9	30	-7.8	24	3.9	-	.64	26	.28	24	11	5	0	0	0	0	0	2	13	19	0	-	-	
	Nottingham	9 9	192	5.6	0.8	3.2	-1.5	9.4	2, 30	-6.7	24, 25	3.2	6.6	.45	22	.27	24	7	3	0	0	0	0	0	5	10	17	0	1.07	103	
	Warsop	9 9	150	5.3	-0.6	2.3	-	9.4	2, 30	-13.9	24	-	-	.43	21	.20	24	10	3	2	0	0	0	0	6	13	23	0	1.02	-	
	Finningley	21-9	34	5.6	0.9	3.3	-	10.9	2	-10.3	24	-	-	.31	-	.11	24	11	1	4	0	0	0	0	3	12	21	0	1.28	- S	
Leicester	Newtown Linford	9 9	392	4.7	-0.3	2.2	-	8.3	29, 30	-9.4	24, 25	-	-	.46	-	.09	14, 24	10	7	1	0	0	0	0	3	13	19	0	1.49	-	
	Bugbrooke Mills	9 9	228	4.8	-1.4	1.7	-	9.4	29	-11.7	24	-	-	.38	-	.11	24	9	3	1	1	0	0	0	7	21	-	0	1.52	-	
	Caldecott	9 9	175	5.4	-2.3	1.1	-	9.4	29	-10.6	24, 25	-	-	.29	-	.11	24	8	2	-	0	-	-	-	1	23	25	-	1.44	-	
Northampton	Raunds	9 9	193	4.7	-1.2	1.7	-	8.9	29, 30	-10.6	24, 25	3.8	9.0	.37	19	.10	24	11	4	2	1	0	0	0	3	20	22	0	1.54	-	
	Wittering	21-9	212	4.7	0.4	2.5	-	9.0	29	-9.7	24	-	-	.29	-	.07	24	8	3	5	0	0	1	0	2	12	21	0	1.74	-	
Warwick	Birmingham K.E.S.*	9 9	450	4.8	0.2	2.5	-	8.9	29, 30	-8.9	24	-	-	.55	-	.14	30	9	7	3	0	0	0	0	6	10	-	0	-	-	
	Edgbaston	21-9	536	4.3	0.9	2.6	-2.1	8.8	29	-8.2	24	5.4	8.4	.54	20	.13	24, 30	9	5	4	0	0	0	0	4	10	15	0	1.45	119	
	Ludington	9 9	138	4.8	-1.4	1.7	-	10.6	29	-11.7	24	-	-	.35	19	.11	30	11	3	3	0	0	0	0	4	19	23	0	1.15	-	
	Stratford on Avon	9 9	160	4.9	-1.7	1.6	-	10.0	29	-11.7	24	3.3	-	.28	12	.12	30	7	3	1	0	0	0	0	4	21	23	1	1.38	-	
	Elmdon	21-9	319	4.7	-0.7	2.0	-	9.5	29	-13.5	24	-	-	.48	20	.12	1	11	3	4	0	0	2	0	9	17	18	0	1.42	-	
	Shipston on Stour	9 9	365	4.6	-0.5	2.1	-	10.0	29	-8.3	24	4.6	-	.53	-	.13	30	14	5	2	0	0	0	0	2	18	22	-	1.49	-	
	Wellesbourne	9 9	153	4.6	1.5	3.1	-	10.0	29	-11.1	24	3.6	-	.45	23	.15	30	13	4	-	1	0	0	0	4	19	-	0	1.24	-	
	Moreton Morrell	9 9	280	4.4	-1.4	1.5	-	9.4	29	-10.6	24	-	-	.55	-	.19	30	11	5	2	0	0	0	0	5	20	-	0	1.19	- S	
	Rugby	9 9	385	4.5	-0.8	1.9	-2.1	8.9	29, 30	-10.0	24	2.2	6.4	.61	-	.18	30	9	4	1	1	0	0	0	1	17	21	0	-	-	
Oxford	Oxford	9 9	208	4.9	-0.1	2.4	-2.5	10.6	29	-6.7	24	3.2	7.1	.72	32	.26	24	14	5	2	1	0	0	0	6	15	24	0	1.61	98	
	Grendon Underwood	9 9	220	4.9	-1.8	1.5	-	9.4	29, 30	-10.0	21	3.1	7.6	.52	-	.25	24	8	4	2	0	0	0	0	-	20	28	0	1.40	-	
Buckingham	Medmenham	9 9	98	5.4	-1.9	1.7	-	10.0	29	-10.6	24	-	-	.81	-	.25	25	13	5	-	-	-	-	-	-	20	24	-	-	-	
	Aylesbury	9 9	316	4.7	-1.5	1.6	-	10.0	29	-7.8	23	-	-	.54	24	.20	24	9	3	3	0	0	2	0	7	20	25	0	1.24	-	
Stafford	Keele	9 9	587	4.6	-0.2	2.2	-	8.9	30	-7.8	24, 25	3.3	7.1	.47	16	.18	24	10	5	4	0	0	0	0	4	14	18	0	1.37	-	
	Oaken	9 9	409	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stone	9 9	350	5.0	-0.7	2.1	-	9.4	30	-8.9	24, 25	-	-	.49	-	.27	24	8	3	0	0	0	1	0	6	12	26	0	1.15	-	
	Penkridge	9 9	330	4.9	-0.9	2.0																									



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER										BRIGHT SUNSHINE		
						Means of				Highest Maximum and Lowest Minimum						Number of days			Precip'n												
A	B	Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	Total Fall	Percentage of Average	Most in a day	Amount	Date	-0.1in (0.2mm) or more	-0.4in (1.0mm) or more	Snow or Sleet	Snow lying at 9h.	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min. below 0° C	Gale	Daily Mean	Percentage of Average				
G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.														hr	%				
5 ENGLAND, S.E.—cont.																															
Surrey																															
—cont.																															
Kew Observatory		21-9	18	5.4	1.8	3.6	-1.6	9.2	29	-5.4	24	3.5	7.9	.67	33	.29	25	11	4	3	0	0	1	0	6	9	18	0	1.39	109	
Gatwick		21-9	192	4.7	-0.7	2.0	-	8.7	2,30	-8.3	24	-	-	.82	-	.31	25	10	4	3	0	0	0	0	7	19	22	0	1.35	-	
Waddon		9	220	5.1	-0.2	2.5	2.7	8.9	29,30,31	-7.8	24	-	-	.59	22	.23	25	10	3	-	-	-	-	-	-	-	-	-	-	-	
Addington		9	474	4.2	0.4	2.3	-2.2	8.3	29	-8.9	24	-	-	.78	27	.25	25	14	6	-	-	-	-	2	15	-	-	-	-	-	
Bromley		9	213	5.2	-0.1	2.5	-2.5	8.9	29,30	-7.2	24	-	-	.59	25	.22	25	12	4	-	-	-	-	-	7	15	-	-	-	-	
Swanley		9	177	4.9	-0.8	2.1	-	9.4	29	-9.4	24	4.7	-	.51	-	.24	26	9	4	2	1	0	0	0	6	16	19	0	1.13	-	
Dartford		9	17	5.6	-0.4	2.6	-	10.0	29	-10.6	24	-	-	.45	22	.18	26	7	2	1	0	0	1	0	6	15	-	0	-	-	
Tunbridge Wells		9	351	4.3	-1.7	1.3	-2.9	8.3	29	-8.3	21,24	3.1	6.7	.74	23	.35	25	10	5	3	2	0	0	0	8	20	22	0	1.55	97	
Goudhurst		9	280	4.4	-1.8	1.3	-	8.3	2,29,31	-9.4	24	-	-	1.59	46	.76	13	8	6	4	12	0	1	0	4	20	22	0	-	-	
East Malling		9	122	4.9	-0.9	2.0	-2.7	8.9	29	-10.0	24	-	7.2	.70	27	.19	25,26	10	4	2	2	0	0	0	5	18	22	0	1.41	107	
Gillingham		9	14	5.5	-0.2	2.7	-	9.4	29,30	-9.4	24	-	-	.40	-	.18	26	6	4	1	0	0	0	0	13	15	-	0	1.42	-	
Sittingbourne		9	224	6.6	-0.4	3.1	-	8.9	30	-10.6	24	2.5	8.0	.84	30	.25	13	8	5	2	3	1	0	0	5	17	21	0	1.56	-	
Isle of Grain		9	9	5.7	1.4	3.5	-	10.6	29	-5.6	24,25	-	-	.47	-	.15	26	7	4	-	0	-	-	-	2	12	18	-	1.40	-	
Faversham		9	157	4.5	-0.3	2.1	-	8.3	29,30,31	-10.0	24	4.4	7.8	.86	-	.35	13	8	4	2	2	0	3	0	3	17	19	0	1.54	-	
Dungeness		21-9	10	5.2	0.6	2.9	-1.8	8.4	31	-7.1	21	-	-	.66	26	.23	25	10	4	2	0	0	0	0	1	12	-	0	-	-	
Wye		9	185	4.6	-0.4	2.1	-2.5	8.9	1,30	-7.2	24	-	-	.57	18	.20	13	7	3	3	2	0	0	0	7	16	19	0	1.82	119	
Whitstable		9	9	5.3	0.4	2.7	-	9.4	30	-8.3	24	-	-	.56	28	.33	13	4	3	1	0	2	0	0	4	13	-	0	1.67	-	
Folkestone		9	128	5.1	1.1	3.2	-	8.9	1,2	-5.0	24	-	9.7	.56	21	.23	25	6	3	2	0	0	0	0	1	8	17	0	2.06	-	
Elmstone		9	28	4.8	-0.3	2.3	-	8.9	30	-6.7	24	-	-	.42	-	.15	26	6	4	-	0	-	-	-	1	17	20	-	-	-	
Herne Bay		9	21	5.3	1.3	3.3	-	8.9	2,30	-6.1	24	-	-	.43	20	.18	13	5	3	1	0	0	0	0	1	12	-	0	1.69	-	
Dover		9	19	5.3	1.4	3.3	2.5	9.4	1,2	-3.9	16,24,25	5.6	8.9	.58	20	.29	25	6	3	4	0	0	0	0	1	12	15	1	1.75	-	
Dover R.M.S.*		9	402	3.9	0.2	2.1	-	7.8	1,2	-6.1	24	-	-	.75	22	.37	25	8	4	-	0	-	-	-	3	15	20	-	-	-	
Deal		21-9	18	5.4	2.3	3.9	-	9.8	3	-3.6	24	-	-	.33	-	.14	26	5	3	0	0	0	0	0	1	10	15	0	-	-	
Manston		21-9	145	4.9	1.0	2.9	-	9.1	2	-6.2	24	-	-	.41	-	.16	26	5	4	3	0	2	0	0	5	12	20	0	-	-	
Ramsgate		9	80	5.6	2.1	3.9	-	10.0	1,2	-3.9	24	-	-	.27	13	.17	26	5	3	3	0	0	0	0	3	5	-	-	1.49	100	
Margate		9	51	5.4	2.2	3.8	-2.1	9.4	1,2	-4.4	24	4.9	8.5	.17	9	.12	26	3	2	0	0	0	2	0	3	4	13	0	1.17	79 S	
Sussex																															
Thorney Island		21-9	10	5.4	0.8	3.1	-	10.1	2	-4.6	21	-	-	1.04	37	.45	25	9	4	2	0	0	0	0	3	15	20	6	1.90	-	
Haslemere		9	655																												
Bognor Regis		9	24	5.5	0.9	3.2	-2.7	10.0	1	-3.9	15,21	-	8.9	1.08	35	.38	24	10	5	3	0	0	0	0	0	16	18	0	2.16	112	
Fernhurst		9	188	5.0	-0.6	2.2	-	9.4	2,29	-6.1	9	-	-	1.01	-	.31	25	15	4	0	-	0	0	0	-	18	25	0	1.65	-	
Littlehampton		9	15	5.6	0.5	3.1	-2.5	10.0	2	-4.4	21	-	8.6	.99	33	.36	25	9	4	1	0	0	0	0	0	17	-	0	2.00	109	
Rustington		9	10	5.6	0.3	2.9	-	10.6	2	-4.4	16,21	-	7.9	.95	-	.35	25	8	5	-	0	-	-	-	-	16	18	-	-	1.97	-
Worthing		9	25	5.4	1.1	3.3	-2.5	10.0	2	-3.3	1,21	4.6	8.6	.73	25	.29	25	8	3	2	0	0	0	0	1	14	19	0	2.19	111	
Brighton		9	32	5.5	1.2	3.3	-	10.6	2	-4.4	20	-	8.7	.66	23	.29	25	7	3	1	3	0	0	0	4	14	18	0	2.15	123	
East Grinstead		9	400																												
Seaford		9	45	5.6	0.7	3.1	-	10.0	1,2,26	-5.0	16	-	-	.91	30	.31	26	8	7	-	-	-	-	-	0	14	-	-	1.79	102	
Eastbourne		9	23	5.7	1.4	3.5	-2.5	10.6	1,2	-3.3	15	5.8	10.1	.80	24	.31	25	8	5	2	-	0	0	0	0	1	12	18	0	1.89	107
Eastbourne C/Guard		21-9	17	5.6	1.1	3.3	-	10.8	1	-4.5	15	-	-	.53	-	.17	26	7	5	2	0	0	0	0	1	14	20	0	-	-	
Bexhill		9	12	5.4	0.6	3.0	-2.7	10.6	1,2	-4.4	21	5.2	-	.68	22	.35	25	6	4	3	0	0	0	0	0	4	14	19	0	1.70	97
Bodiam		9	73	4.8	-1.3	1.7	-	8.9	1,29,31	-8.3	16	4.6	8.6	.87	-	.33	25	7	5	2	12	0	0	0	0	20	24	0	1.44	-	
Berkshire																															
Hastings		9	149	5.1	1.1	3.1	-2.7	10.6	2	-3.9	15	3.8	8.2	.65	21	.31	25	7	4	2	3	0	0	0	2	11	19	0	2.01	110	
Letcombe Regis		9	350	5.6	-0.6	2.5	-	10.0	29,31	-7.2	26,23,24	-	-	.87	-	.22	24	16	11	2	0	0	0	0	2	20	-	0	-	-	
Abingdon		21-9	210	4.7	-0.2	2.3	-	10.8	29	-7.5	21	-	-	.56																	



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE				
				Means of		Difference from Average	Highest Maximum and Lowest Minimum				Total Fall			Per-centage of Average	Most in a day	Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost +	Grass min below 0° C	Gale	Daily Mean	Per-centage of Aver- age			
				A Max.	B Min.		Maximum	Date	Minimum	Date		in.	%			Amount	Date												-0.1in. (0.2mm) or more	-0.01in. (1.4mm) or more	
				Max.	Min.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.										hr	%		
7a ENGLAND, N.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.																	
Westmorland	Great Dun Fell	21-9	2780	-0.6	-	-	-	4.4	30	-	-	-	-	-	-	-	-	21	-	-	-	23	-	-	-	.82	-				
—cont.	Moor House	9 9	1825	1.6	-2.7	-0.5	-	6.1	30	-10.0	20	2.2	-	2.71	-	1.37	30	19	11	-	17	-	-	6	18	23	-	.75	-		
Lancashire	Barrow-in-Furness	9 9	55	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-		
	Squires Gate	21-9	33	5.4	0.1	2.7	-	9.6	2	-8.0	21	-	-	.59	19	.17	24	6	4	0	0	0	0	0	15	19	0	1.73	143		
	Urswick	9 9	130	6.0	-0.7	2.7	-	10.0	2	-8.3	20	-	-	.90	-	.33	24	7	5	0	0	0	0	0	7	13	-	-	-		
	Southport	9 9	16	5.4	-0.4	2.5	-	10.6	30	-7.2	21	3.1	9.3	1.26	-	.66	30	6	5	-	-	-	-	0	16	19	-	2.05	-		
	Poulton-le-Fylde	9 9	38	6.1	0.0	3.1	-	11.1	30	-7.2	21	-	-	.60	-	.25	24	6	4	0	0	0	0	0	0	14	-	-	-		
	Grizedale	9 9	300	5.6	-1.7	1.9	-	11.1	2	-10.0	24	3.4	-	3.24	-	1.36	30	9	9	2	3	0	0	0	0	20	28	0	-	-	
	Speke	21-9	80	5.8	1.0	3.4	-	11.4	30	-6.3	24	-	-	.13	5	.03	24	6	0	2	0	0	0	0	1	12	14	2	1.36	-	
	Kirkham	9 9	78	5.5	-0.2	2.7	-	10.0	2,30	-7.8	21	-	-	.88	25	.28	30	6	5	0	0	0	0	0	0	16	24	0	1.62	-	
	Garstang	9 9	68	5.7	0.3	3.0	-	10.6	2	-6.7	21,24	-	-	1.06	-	.34	30	6	5	-	-	-	-	0	10	22	-	1.53	-		
	Morecambe	9 9	24	5.6	0.9	3.3	-1.7	11.1	2	-5.6	21	-	-	1.02	28	.33	24	8	6	0	0	0	0	0	0	10	-	1.47	127		
	Preston	9 9	108	5.6	0.2	2.9	-	10.6	30	-7.2	20	-	-	1.28	36	.56	30	6	5	3	0	0	0	0	6	14	19	0	-	-	
	Bolton	9 9	352	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Darwen	9 9	724	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Stonyhurst	9 9	377	5.4	0.2	2.8	-1.5	10.0	30	-6.7	20,21,24	-	-	1.44	33	.80	30	6	5	-	0	-	-	-	1	13	15	-	1.63	150	
	Manchester W/Centre	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Helmshore	9 9	854	4.0	-0.2	1.9	-	8.3	30	-6.1	24,25	3.2	-	2.19	40	.97	30	11	6	-	1	-	-	-	7	15	21	-	1.46	-	
	Manchester (Smokeless Zone)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Burnley	9 9	655	4.6	-0.4	2.1	-	9.4	30	-7.2	20,21	4.1	6.8	1.60	-	.77	30	9	8	1	0	0	0	0	0	14	23	0	1.30	-	
	Nelson	9 9	540	4.7	-0.4	2.1	-	9.4	30,31	-7.8	24	3.3	7.2	1.66	40	.84	30	12	8	-	0	-	-	-	4	15	23	-	.71	-	
	Rochdale	9 9	362	5.1	-0.8	2.1	-	9.4	30	-10.0	24	-	-	1.39	-	.55	30	12	7	1	0	0	0	0	6	13	18	3	-	-	-
Cheshire	West Kirby Park	9 9	25	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
	Bidston Obs'y. ¶	9 9	198	5.7	1.7	3.7	-1.6	10.6	30	-5.6	24,25	-	-	.31	12	.09	30	6	3	-	-	-	-	-	2	8	13	-	1.71	135	
	Winnington	9 9	65	6.2	0.7	3.5	-	11.1	30	-6.7	21	-	-	.27	10	.15	30	7	2	1	0	0	0	0	3	13	21	0	-	-	-
	Knutsford	9 9	212	5.4	-0.1	2.7	-	10.0	30	-7.2	20	3.3	7.1	.31	-	.13	30	7	2	-	-	-	-	-	0	12	17	-	-	-	-
	Ringway ¶	21-9	248	5.3	0.8	3.1	-1.4	9.9	30	-6.9	20	-	-	.44	15	.13	30,31	8	4	3	0	0	0	0	0	3	11	15	1	1.69	172
	Macclesfield	9 9	500	4.8	0.2	2.5	-1.5	9.4	30	-6.1	20,21	-	-	.43	14	.12	30	10	5	3	0	0	0	0	4	4	-	2	-	-	-
7b NORTH WALES																															
Flint	Rhyl	9 9	31	6.9	1.2	4.1	-1.9	11.7	29	-3.9	18	-	-	.27	11	.11	30	5	4	1	0	1	0	0	0	11	12	1	1.39	105	
	Prestatyn	9 9	12	7.2	-	-	-	11.1	27,29	-	-	-	-	.19	7	.07	29	7	2	0	0	0	0	0	0	-	-	0	1.58	128	
	Hawarden Bridge	9 9	17	6.4	0.3	3.3	-1.9	11.1	30	-6.1	23,24,25	-	-	.35	14	.11	24	7	4	0	0	0	2	0	0	13	-	0	-	-	-
Anglesey	Valley	21-9	26	7.0	2.1	4.5	-2.4	10.6	1	-4.4	20	-	-	.68	19	.26	30	7	4	2	1	0	0	0	0	10	17	5	2.49	179	
Denbigh	Alwen	9 9	1100	4.2	-2.3	0.9	-	8.9	29	-10.6	20	-	-	1.01	-	.35	24	12	6	-	-	-	-	-	-	21	24	-	-	-	-
	Ruthin	9 9	248	6.0	0.2	3.1	-	11.1	27,29	-8.3	20	-	-	.47	-	.13	30	8	5	-	-	-	-	-	0	12	-	-	-	-	-
	Loggerheads	9 9	690	4.7	-1.3	1.7	-	9.4	27,29,30	-8.9	20,21	3.6	6.6	.41	-	.11	30	9	5	4	0	0	2	0	0	18	21	0	-	-	-
	Bwlchgwyn	9 9	1267	3.1	-1.1	1.0	-	8.3	28	-7.8	24,25	3.6	-	.85	-	.20	1	12	7	4	0	0	0	0	0	1	15	22	0	-	-
	Wrexham	9 9	275	5.8	0.3	3.1	-	10.6	30	-7.2	24,25	4.2	7.1	.42	-	.15	30	8	4	0	0	0	0	0	0	12	13	0	-	-	-
Caernarvon	Bardsey Island	21-9	60	7.3	4.7	6.0	-	10.6	1,4	-2.1	24	-	-	.70	-	.22	24	7	5	-	-	-	-	-	0	1	8	-	-	-	-
	Botwnnog	9 9	112	7.0	1.6	4.3	-	10.0	1,28,30	-3.9	20	4.3	7.9	1.10	-	.24	24	9	7	1	0	0	1	0	0	10	21	1	2.61	-	-
	Bryn Adda	9 9	275	6.9	1.7	4.3	-	11.1	2	-2.8	10,24	-	-	.87	-	.47	30	5	5	0	0	1	0	0	0	10	24	0	2.50	-	-
	Cwm Dylli	9 9	324	6.4	1.0	3.7	-	10.0	1,27	-6.1	23,24	5.1	-	3.30	-	1.30	30	10	6	-	-	-	-	3	12	19	-	-	-	-	-
	Aber	9 9	60	7.4	2.3	4.9	-1.9	12.8	28	-5.0	24	-	-	.98	23	.56	30	8	4	1	0	0	0	0	0	9	19	1	1.23	216	S
	Llandudno ¶	9 9	13	7.2	2.1	4.7	-2.0	12.2	27,28,30	-2.8	10,21,25	-	-	.29	10	.19	30	3	2	0	0	1	0	0	0	10	-	0	2.17	164	-
Merioneth	Llyn Stwlan	9 9	1656	-	-	-	-	-	-	-	-	-	-	1.36	-	.93	30	8	5	-	-	-	-	-	-	-	-	-	-	-	-
	Trawsfynydd	9 9	611	-	-	-	-	-	-	-	-	-	-	1.38	-	.67	29	3	3	-	-	-	-	-	-	-	-	-	-		



TABLE III (continued)—SUMMARY OF OBSERVATIONS OF TEMPERATURE, RAINFALL, SUNSHINE AND WEATHER December 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days												BRIGHT SUNSHINE	
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum			Total Fall			Per-centage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min. below 0° C	Gale	Daily Mean	Per-centage of Average			
				A Max.	B Min.			Maximum	Date	Minimum		Date	1 ft.		4 ft.	Amount	Date	-0.1in (0.2mm.) or more											-0.4in (1.0mm.) or more		
				°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.											hr	%			
8b ENGLAND, S.W.—cont.		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.															
Somerset	Long Ashton	9 9	162	5.6	0.1	2.9	-2.5	11.1	29	-6.7	23	5.3	-	.86	25	.28	24	10	6	1	0	0	0	3	16	21	0	1.44	99		
	Wincanton	9 9	375	5.3	-0.3	2.5	-	11.7	3,4	-6.1	24	-	-	1.17	-	.34	25,30	11	6	2	0	0	0	0	6	15	24	0	-	-	
Dorset	Bath City Boys' School	9 9	388	5.1	-0.6	2.3	-	10.0	29	-6.1	8	4.9	-	.86	-	.28	30	11	6	1	1	0	0	0	4	20	-	0	0.85	-	
	Bath	9 9	67																												
	Lyme Regis	9 9	200	6.3	1.4	3.9	-	12.8	2	-4.4	15	-	-	2.74	-	1.31	11	12	7	0	0	0	0	0	2	1	15	0	2.34	-	
	Portland Bill	21-9	35	5.8	-	-	-	-	-	-	-	-	-	1.50	49	.55	11	9	6	1	0	0	0	0	-	-	0	-	-		
	Weymouth	9 9	16	6.4	1.8	4.1	-2.6	11.1	2	-3.3	21	-	-	1.79	51	.61	11	10	7	-	0	-	-	-	1	13	-	-	2.13	114	
	Winfrith	9 9	85	6.1	-0.4	2.9	-	11.1	2	-8.9	23	-	-	1.99	-	.50	11	13	8	-	0	-	-	-	1	17	17	-	-	-	
	Shaftesbury	9 9	680	4.6	-0.4	2.1	-2.5	10.0	29	-5.6	24	-	-	1.52	44	.46	25	8	8	-	0	-	-	-	4	16	-	-	-	-	
Devon	Swanage	9 9	37	6.9	2.1	4.5	-	11.7	1,2	-5.0	23	-	9.1	1.35	-	.33	25	10	7	0	-	0	0	0	3	11	13	5	1.30	105	
	Poole	9 9	18	6.1	-	-	-	11.1	2	-	-	-	-	1.44	-	.41	24	12	6	0	0	0	0	0	-	-	0	-	1.81	101	
	Clawton	9 9	412	5.7	-	-	-	11.1	2,28,29	-	-	-	-	1.15	-	.42	24	12	5	0	0	0	0	0	9	-	-	0	-	-	
	Hartland Point	21-9	298	6.2	3.1	4.7	-	11.1	27	-2.9	19	-	-	1.31	-	.67	30	7	5	0	0	0	0	0	5	16	4	2.15	148		
	Mount Batten	21-9	87	6.8	2.2	4.5	-2.7	12.7	2	-3.9	21	-	-	2.19	49	.50	24	10	6	1	0	0	0	0	0	11	16	1	1.72	102	
	Plymouth, The Hoe	9 9	119	7.6	2.1	4.9	-2.0	12.8	2	-4.4	21	6.2	9.4	2.24	50	1.54	24	12	6	0	0	0	0	0	3	11	19	0	1.81	104	
	Tavistock	9 9	457	6.6	1.0	3.8	-2.1	12.2	2	-5.0	9,21	-	8.3	2.16	-	1.11	24	10	7	0	-	0	0	0	1	14	22	3	-	-	
	Chivenor	21-9	20	6.7	1.5	4.1	-	12.1	2	-6.8	20	-	-	1.00	-	.57	30	9	4	0	0	0	0	0	0	12	17	1	1.92	-	
	Ilfracombe	9 9	25	7.3	3.2	5.3	-2.1	11.7	28	-0.6	24,25	5.6	9.4	1.24	28	.55	30	6	5	0	0	0	0	0	0	6	16	1	-	-	
	Totnes	9 9	120	5.2	-0.2	2.5	-	12.2	2	-8.3	21	6.4	9.8	2.27	40	.73	24	10	6	0	0	0	0	0	3	17	24	0	1.46	-	
	Slapton	9 9	104	7.6	2.4	5.0	-	12.8	2	-2.8	21	-	-	1.82	-	.48	24	12	8	0	0	0	0	0	2	8	15	0	-	-	
	Newton Abbot	9 9	272	6.6	0.8	3.7	-2.4	11.7	2	-5.0	21	-	-	2.31	49	.86	24	12	6	0	0	0	0	0	2	15	17	0	-	-	
	Paignton	9 9	8	7.8	2.1	4.9	-	12.2	2,29	-3.9	23	-	-	1.75	39	.48	24	10	7	0	0	0	0	0	1	9	18	0	1.43	83	
	Torquay	9 9	26	7.6	2.2	4.9	-1.9	12.8	2	-3.3	21	-	9.1	1.67	41	.44	24	9	6	0	0	0	0	0	0	7	13	1	1.70	89	
Teignmouth	9 9	20	7.4	2.3	4.9	-2.2	11.7	1,2,29	-3.3	23	-	-	1.72	45	.43	24	9	6	0	0	0	0	0	0	7	16	1	1.70	91		
Starcross	9 9	29	6.7	0.8	3.7	-	12.2	2	-6.7	21	4.9	-	1.69	44	.49	24	13	6	0	0	0	0	0	5	16	19	0	2.11	-		
Exeter, Southam	9 9	160	-	-	-	-	-	-	-	-	-	-	-	1.67	-	.29	1	10	7	0	0	0	0	0	-	-	0	-	-		
Exmouth	9 9	195	6.5	0.9	3.7	-2.4	11.7	29	-5.0	23,24	-	-	1.85	50	.48	24	10	8	0	0	0	0	0	1	14	-	0	2.29	122		
Cornwall	Exeter	21-9	106	6.1	1.0	3.5	-	12.3	2	-7.5	23	-	-	2.01	55	.72	11	12	6	1	0	0	0	4	16	19	0	1.97	-		
	Sidmouth	9 9	25	6.8	1.1	3.9	-2.6	11.7	2,29	-3.9	15,21,23	-	-	1.96	-	.40	11	10	7	-	0	-	-	-	11	18	-	1.65	88		
	St. Mary's, Scilly	21-9	158	9.1	6.0	7.5	-1.1	12.8	27	2.0	20	-	-	2.15	61	-	-	-	0	0	0	0	0	0	0	6	2	2.52	137	S	
	Penzance	9 9	62	8.9	3.5	6.2	-1.8	13.3	2	-3.9	21	-	-	2.25	46	.58	24	12	9	0	0	0	0	0	6	15	2	2.36	128		
	Gulval	9 9	50	3.5	-	-	-	-	-	-2.2	21	-	-	1.96	42	.55	24	-	-	-	-	-	-	-	-	-	-	-	-		
	Culdrose	9 9	268	7.6	2.6	5.1	-	12.2	2	-3.9	21	-	-	2.14	-	.46	24	11	8	0	0	1	0	1	0	10	14	3	2.13	-	
	Rosewarne	9 9	250	7.6	2.9	5.3	-	12.2	2,27	-3.3	20	5.7	8.5	2.55	58	.86	24	10	7	0	0	0	0	0	0	8	14	1	2.28	-	
	Lizard	9 9	240	8.7	4.2	6.5	-	12.4	2	-2.2	20	-	-	1.87	48	.40	24	12	10	0	0	0	0	1	4	-	3	2.00	-		
	Falmouth	9 9	167	7.9	2.8	5.3	-2.2	12.8	2,27	-3.9	22	-	-	2.37	45	.70	24	10	9	0	0	0	0	0	0	9	16	1	1.84	103	
	Newquay	9 9	176	7.5	2.2	4.9	-2.3	12.8	2	-4.4	21	-	-	1.48	39	.36	24	8	8	0	-	0	0	0	0	10	-	0	2.35	136	
	St. Mawgan	21-9	337	6.7	2.1	4.4	-	11.9	2	-3.9	19,21	-	-	1.50	-	.53	24	10	6	0	0	0	0	0	0	11	14	0	2.41	-	
	St. Austell	9 9	310	7.4	2.6	5.0	-	12.2	2	-2.2	20	-	-	2.73	48	.96	24	13	8	0	0	0	1	0	9	-	0	-	-		
Fowey	9 9	51	8.2	2.8	5.5	-1.9	12.8	2	-3.3	21	-	-	1.79	-	.52	24	9	7	0	0	0	0	0	0	8	-	0	-	-		
Bude	9 9	50	7.2	0.2	3.7	-3.2	12.2	2,29	-8.3	20	3.2	-	.80	21	.24	30	7	6	-	0	-	-	-	16	-	-	2.09	125			
Ellbridge	9 9	190	-	1.0	-	-	-	-	-	-5.6	21	-	-	2.02	41	.85	24	10	6	0	0	0	0	0	1	13	19	0	1.76	96	
NORTHERN IRELAND																															
Londonderry	Loughmore Forest	9 9	572	5.3	-0.2	2.5	-	10.6	28	-10.6	19	-	-	1.15	-	.33	24	13	8	3	4	0	0	0	0	11	18	0	-	-	
	Ballykelly	21-9	3	6.2	1.2	3.7	-1.9	12.0	27	-5.0	14,18,22	-	-	.82	23	.13	24	12	9	4	2	2	0	0	0	10	16	2	1.56	124	
Derry	Derrynoyd Forest	9 9	292	5.9	-0.1	2.9	-	10.6	27,28,29	-6.7	19	-	-	1.48	-	.41	24	11	6	2	3	0	0	0	0	15	21	0	-	-	
	Somerford Forest	9 9	142	6.3	0.8	3.5	-	11.1	27,30	-3.9	10,18	-	-	1.41	-	.37	24	12	12	2	0	2	0	0	0	13	19	0	-	-	
	Garvagh Forest	9 9	292	5.9	0.2																										



[illegible]



TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS December

1963

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	No. of Observations					NUMBER OF OBSERVATIONS							FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE IV (continued)—SUMMARY OF OBSERVATIONS AT FIXED HOURS December 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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									Mean Amount	0	1	3	6	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE XIII—SOLAR RADIATION AND INTENSITY OF DAYLIGHT, December 1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr./cm <sup>2</sup>						INTEGRATED ILLUMINATION OF A HORIZONTAL SURFACE kilo lux-hours					
	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days	Max.	Date	Min.	Date	Daily Mean	No. of days
Lerwick Observatory ...	33	20	3	1	18.3	31	24	22	3	1	14.6	31	41	21	5	1	21.8	31
Eskdalemuir Observatory ...	78	19,20	3	30	40.6	31	47	24	3	30	27.8	31	83	19	3	31	42.7	31
Cambridge ...	117	20	12	11	54.4	31	57	8	12	11	38.7	31	-	-	-	-	-	-
Kingsway ...	91	15	10	25	45.6	31	58	30	10	25	36.6	31	96	30	11	11,25	47.5	31
Kew Observatory ...	90	30	9	11	44.2	31	58	30	9	11	34.0	31	101	30	11	11	44.6	31
Aberporth ...	108	19	19	27	67.0	31	67	24	19	27	40.6	31	-	-	-	-	-	-

TABLE VIII—NUMBER OF DAYS IN December 1963 WITH MAXIMUM AND MINIMUM TEMPERATURES between given limits.

STATION	MAXIMUM TEMPERATURE °C.								MINIMUM TEMPERATURE °C.								STATION	MAXIMUM TEMPERATURE °C.								MINIMUM TEMPERATURE °C.								
	0·0° or less	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	15·1° to 20·0°	20·1° to 25·0°	25·1° to 30·0°	Above 30·0°	-15·0° or less	-14·9° to -10·0°	-9·9° to -5·0°	-4·9° to 0·0°	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	Above 15·0°		0·0° or less	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	15·1° to 20·0°	20·1° to 25·0°	25·1° to 30·0°	Above 30·0°	-15·0° or less	-14·9° to -10·0°	-9·9° to -5·0°	-4·9° to 0·0°	0·1° to 5·0°	5·1° to 10·0°	10·1° to 15·0°	Above 15·0°	
Lerwick Observatory ... ..	3	11	16	1	0	0	0	0	0	0	1	5	21	4	0	0	Edgbaston ... ..	3	17	11	0	0	0	0	0	0	0	0	1	9	18	3	0	0
Stornoway ... ..	0	5	24	2	0	0	0	0	0	0	0	6	17	8	0	0	Kew Observatory ... ..	0	4	17	0	0	0	0	0	0	0	1	8	17	5	0	0	
Craibstone ... ..	0	20	10	1	0	0	0	0	0	0	0	14	12	5	0	0	Hastings ... ..	1	18	11	1	0	0	0	0	0	0	15	13	3	0	0		
Rothsay ... ..	0	9	20	2	0	0	0	0	0	0	0	7	18	6	0	0	Southampton ... ..	0	16	12	3	0	0	0	0	0	0	14	13	3	0	0		
Renfrew ... ..	0	12	16	3	0	0	0	0	0	0	2	11	12	6	0	0	Stonyhurst ... ..	0	15	16	0	0	0	0	0	0	4	11	15	0	0	0		
Eskdalemuir Observatory ... ..	3	18	10	0	0	0	0	0	0	0	6	7	16	2	0	0	Bidston ... ..	0	14	16	1	0	0	0	0	0	2	7	15	7	0	0		
Douglas ... ..	0	7	23	1	0	0	0	0	0	0	0	5	16	10	0	0	Valley ... ..	0	6	24	1	0	0	0	0	0	0	10	14	7	0	0		
Cockle Park ... ..	0	13	18	0	0	0	0	0	0	0	2	8	20	1	0	0	Falmouth ... ..	0	6	18	7	0	0	0	0	0	0	9	14	8	0	0		
Gorleston ... ..	0	11	20	0	0	0	0	0	0	0	0	8	17	6	0	0	Aldergrove ... ..	0	15	13	3	0	0	0	0	0	0	3	7	16	5	0	0	
Cambridge ... ..	0	17	14	0	0	0	0	0	0	0	6	12	13	0	0	0	Armagh ... ..	0	10	18	3	0	0	0	0	0	3	9	15	4	0	0		

TABLE III—ADDITIONS AND CORRECTIONS

MONTH	STATION	Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)			WEATHER Number of days										BRIGHT SUNSHINE		
				Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum						Total Fall	Per-centage of Aver-age	Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 6° C	Gale	Daily Mean
				A Max.	B Min.			Maximum	Date	Minimum	Date	1 ft.	4 ft.			Amount	Date	-40in (0.2mm.) or more	-40in (1.6mm.) or more										
				Max. Min.	A Max.	B Min.	Mean Temperature Mean of A and B	Difference from Average	Maximum	Date	Minimum	Date	1 ft.	4 ft.	Total Fall	Per-centage of Aver-age	Amount	Date	-40in (0.2mm.) or more	-40in (1.6mm.) or more	Snow or Sleet	Snow lying at 9h	Hail	Ice or snow pellets etc.	Thunder heard	Fog at 9h.	Air Frost	Grass min below 6° C	Gale
		G.M.T.	ft.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	°C.	in.	%	in.													hr	%	
1962 Annual	Kensington	9 9	81									23.87	95																
1963 January	Cannich	9 9	350									.91	16			8	8												
July	Achanay	9 9	280	17.2	7.8	12.5	-	26.1	30	3.3	15, 18	13.8	10.9	1.88	58	.37	23	15	10	0	0	0	0	0	0	5	0	-	-
February	Kilkeel	21-9	59																								2.40		
March	"	21-9	59																								3.88		
April	"	21-9	59																								4.39		
May	"	21-9	59																								6.52		
June	"	21-9	59																								7.30		
July	"	21-9	59																								5.24		
August	"	21-9	59																								5.05		
July	Penkeridge	9 9	330									2.61																	
August	Woneydig	21-9	121		9.6																								
"	Garston	9 9	256		10.4																								
"	Threave	9 9	240									5.04						15											

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# Monthly Weather Report

## OF THE METEOROLOGICAL OFFICE

*Including monthly and annual tables of wind based on the records of autographic instruments*



Volume 80 Number 14

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### Annual Summary 1963

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### REMARKS ON THE WEATHER OF THE YEAR

#### *1963—A Generally Cold Year after an Exceptionally Severe Winter*

Perhaps the most noteworthy feature of 1963 was the bitterly cold weather with persistent easterly winds, widespread snow-cover and frequent blizzards, during both January and February. Mean temperatures during these two months together were the lowest over central England since January-February 1740. Night frosts were exceptionally severe and gale force winds at times piled heavy falls of snow into deep drifts bringing surface traffic almost to a standstill in many parts of the country. Easterly winds set in just before Christmas 1962 and were maintained with only minor interruptions until the first week of March. Most of the country was snow-covered throughout the two months.

Other noteworthy features of the year were the long sequence of months, from January to September, with mean temperature near or below the average in England and Wales; the two very wet months of March and November; the exceptionally dry December; the warm May 31st when afternoon temperatures at many places were higher than at any time since the summer of 1961; the generally cool and dull spring and summer broken by only short warm sunny periods around the beginning of June and the latter part of July; and the rather mild autumn.

#### General Weather

The bitterly cold weather with easterly winds and widespread snow which set in about Christmas 1962 continued almost without a break throughout January and February. Snow fell at one place or another every day except the last few days of February, and ground remained snow-covered over a large part of the country until the beginning of March. Blizzards during the first three days of January, described as the worst since 1881, piled snow into drifts, 20 ft deep in parts of the west country and 8 ft deep in Kent, blocking access by road or rail to many towns and villages. Helicopters were used to drop supplies and fodder to many isolated communities in Devon and Cornwall. On January 16 blizzards moving slowly northwards swept across the Yorkshire Moors; two days later Scotland was virtually cut off from England.

With continuing easterly winds day temperatures in February often failed to rise above freezing and were especially low in south-east England during the first and third weeks. The regime was unusually persistent: deep depressions from the Atlantic, although giving heavy and prolonged snow over much of the country, especially on the 5th and 16th, were able to change it only for short

periods. During the last few days of February afternoon temperatures rose widely to about 5°C, but night frost continued to be moderate or severe.

During March temperature returned to normal and the month was very wet. Much of Scotland and northern England were snow-covered until the 5th. On the 6th there was a rapid rise of temperature as the warm sector of a deepening depression moved north-east across the country. This was the first morning of 1963 entirely free from frost over the whole country. Rain associated with the depression, coupled with melting snow, led to widespread floods in northern England, and was the beginning of a spell of unsettled, very wet weather with mainly south-westerly winds which lasted until the 20th. There was a short cold spell with sleet showers around the 22nd, but the month ended mild and unsettled with heavy rain at times.

April was changeable and rather dull and wet in southern England. After the first two days a cold north to north-east airstream brought thundery showers and good sunny periods to most districts with snow and sleet at times as far south as the Channel Islands. From the 9th disturbances from the Atlantic moving across the country gave about two weeks of unsettled weather with milder westerly winds. A ridge of high pressure extended north-east across the southern part of the British Isles from the 23rd until the end of the month giving warm, sunny weather until the 27th (temperatures in many parts of south-east England exceeded 20°C on the 27th), but thereafter it became dull with rain at times as the ridge moved south.

Weather remained changeable during the first three weeks of May with rather cool winds from between west and south-west. The first week was mainly dry in the south but there was occasional rain in the north. Rain was widespread every other day during the second week and the third week was mainly showery though with more continuous rain on the 20th. A ridge of high pressure gave warm sunny weather during most of the remainder of the month.

Warm thundery weather with light variable or easterly winds prevailed for most of the first half of June. The 6th to the 10th was a very warm but thundery period with afternoon temperatures widely exceeding 25°C and with many places recording 16 hours of sunshine on most days. From the 15th to the 26th a series of troughs and ridges moved eastwards across the country and weather was changeable and rather cool, periods of rain alternating with showery brighter spells. On the 26th an anticyclone in the eastern Atlantic intensified as it approached western Ireland and a showery northerly airstream spread over the British Isles, persisting until a depression from the Low Countries became

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centred over England and gave more continuous rain during the last two days.

July was generally dry; it was cool and cloudy for the most part but warm and sunny towards the end of the month. The first few days were showery with scattered thunderstorms in a south-easterly airstream associated with a depression off southern Ireland. Widespread rain on the 6th and 10th was separated by three days of cool northerly winds. After a spell of quiet weather with scattered thundery showers, a series of troughs and ridges from the Atlantic brought unsettled weather from 14th to 19th. There was a marked change on the 20th as an anticyclone formed over the country and weather became sunny with rapidly rising temperatures in southern England. The fine spell was broken by two wet days on the 23rd and 24th, but thereafter weather became progressively warmer in all areas except the extreme north, and on the 30th afternoon temperatures of 27°C were reported at places as far apart as the Channel Islands and southern Scotland.

The warm weather lasted only over the 1st of August however, the month being cool, dull and unsettled generally with winds between south-west and north-west and twice the average amount of rainfall in western areas. Disturbances moving northward from France brought heavy rain to southern England and the Midlands on the 3rd and to north-east England on the 4th. After about a week of unsettled weather with belts of rain crossing the country, a west to north-west airstream, originating in high latitudes, brought showers and fair periods to most of England and Wales from the 11th until the 15th. During the next nine days periods of continuous rain alternated with brighter showery weather, the rain being widespread and heavy on the 16th and 25th and during the nights of the 20th/21st and 22nd/23rd. The 26th to 29th were sunny, but rain was persistent and widespread during the last two days.

The generally unsettled weather at the end of August continued until September 11 broken by a short fine spell on the 5th and 6th. On the 12th an anticyclone developed over the country and persisted for nearly a week. Weather became fine and warm nearly everywhere with more than 10 hours of sunshine daily in many places and with afternoon temperatures widely exceeding 25°C. The anticyclone moved to Scandinavia on the 19th and easterly winds brought cooler, more cloudy weather to most of the British Isles but it remained dry until the 23rd. A vigorous Atlantic depression deepened as it approached Iceland and an associated trough gave widespread and often heavy rain as it moved across the British Isles on the 24th. The night of the 25th/26th was particularly stormy with more than 3 inches of rain in parts of Westmorland and Lancashire, and this was the beginning of an unsettled period which lasted until the end of the month.

October was unusually dry. After a week of unsettled weather an anticyclone became centred over our South-West Approaches on the 9th and for the next few days weather was sunny and warm in southern England although there was occasional rain further north. Warm-front rain reached western districts during the afternoon of the 14th, and rain persisted for about 48 hours in most areas finally clearing south-east England about dawn on the 17th. Two other belts of rain moved slowly eastward across the country during the period 19th-21st. Subsequently, an anticyclone from the Bay of Biscay moved across the British Isles on the 24th and 25th to become centred over the southern Baltic on the 26th; weather was dull with slight local drizzle during this time and overnight fog persisted throughout the day on the 27th and 28th in many areas. Rain from the west spread to most districts during the last three days of the month.

November was very wet. A small complex low pressure area to the south-west of the country maintained mild, unsettled weather during the first five days of the month, but on the 7th rain was widespread and heavy at times as a small depression moved eastward across central England. Two days later a depression from the west of Spain deepened rapidly as it approached the British Isles; rain reached the south-west late on the 9th, and persisted over most of the country on the 10th and 11th, and on the 12th as well in Scotland and northern England. A cooler showery spell began on the 13th which lasted about four days in England and Wales but nearly a week in Scotland. Milder weather with widespread rain spread to southern and central England on the 17th but in Scotland there were heavy falls of snow. Stormy, mild wet weather continued over most of England for about three days until north westerly winds brought brighter colder weather to all districts on the 20th. Weather was generally mild and wet from 21st-26th associated with depressions to the west of Ireland, but it became cooler again during the last three days of the month with persistent slight rain or drizzle as fronts became slow moving over the country.

For most of the first half of December pressure was high to the north and low to the south-west of the British Isles. Weather was rather dull with little or no rain during the first week except on the 1st with temperature about average. Winds became light and variable on the 8th as the centre of high pressure was transferred from north to east of the British Isles. Overnight fog persisted throughout the day in parts of south west England with temperature remaining near freezing point in foggy areas; the fog extended to northern districts on the 9th and 10th. Rain and drizzle spread across southern and central England on the 11th and 12th, but on the 13th the anticyclone moved to the north of Scotland and freshening north-easterly winds brought colder weather with wintry showers to most southern districts. Winds backed towards north and weather became progressively colder until on the 18th a cold front moving south brought snow to most districts. A spell of sunny, very cold weather followed and it was not until Christmas Day that temperatures returned to normal as rain spread across the country. Southern districts had rain on Boxing Day too, and in the evening fog formed over much of England. The month ended with generally mild, rather foggy weather with drizzle at times.

#### Synoptic Features

Weather during January and February was dominated by anticyclones. These were mainly to the north and north-west of the British Isles, but on January 12-15 and 23-29 high pressure extended southward covering much of the country. There was cyclonic activity to the south-west, however, during the first ten days of January, and again on January 19th and 30th. A very cold easterly airstream

from the continent associated with a Scandinavian anticyclone covered the country for most of February although there were interludes of northerly winds.

March was generally cyclonic in character except for the first three days and a short anticyclonic spell on the 21st-24th. April, too, was predominantly cyclonic in character, apart from a short anticyclonic spell with easterly winds during the first week. The cyclonic type persisted during the first two weeks of May followed by a transition period with troughs and depressions moving south-east around the eastern flank of an anticyclone centred off south-west Ireland. From May 22 weather was mainly anticyclonic with high pressure at times extending from the Azores, across the British Isles to Scandinavia. Warm, thundery anticyclonic weather continued until about June 12 after which weather was cool and predominantly cyclonic until July 19th. From July 20 onwards weather was mainly anticyclonic in character apart from a short break around the 24th. August and the first eleven days of September was mainly cyclonic in character apart from September 5 and 6, when a ridge of high pressure moved south-east across the country. A spell of anticyclonic weather followed from the 12th but changeable cyclonic conditions set in during the last week of the month. Except during the first week and the last few days, anticyclones dominated the weather of October particularly in the south of the country; in the north weather was more cyclonic in character at times. November and the first twelve days of December (except the 7th-9th) were cyclonic but thereafter weather was mainly anticyclonic, except around the 25th and during the last three days of the month.

The transition from a cyclonic to an anticyclonic type of weather is often gradual, resulting in frequent border-line cases, when individual days are being considered. It will be seen from the above, however, that, apart from these uncertain periods, there were nearly 80 more cyclonic days during the year than anticyclonic, and that weather was predominantly anticyclonic during January and February with 19 and 28 days respectively, but mainly cyclonic during the rest of the year. There were 27-31 cyclonic days during April, August and November, 22-24 days during March and July, and 14-18 days during May, June and September.

#### Pressure and Wind

Mean pressure at 9h was below the 1921-50 average over the whole of the United Kingdom during March, April, August and November; it was below average in the south but above in the extreme north during February and June. Mean pressure was everywhere above the average during January, July and December and above the average except in the extreme north during May, September and October.

An indication of the general surface wind direction over the United Kingdom throughout the year is given in the section on "General Weather" from which it may be seen that during January and February surface winds were mainly easterly or light and variable, that westerly or south-westerly winds predominated during the spring and that for most of the summer and during the first part of the autumn until October 5 the surface airstream was mainly westerly though frequently with a northerly component.

Surface winds reached gale force in England and Wales on 16 days in each of the months January, March and December, on 9-11 days in February, June and August, and on 6-8 days in April, May, September and October. In Scotland gales occurred more frequently, except during January, June and August. In October, March and December there were 24, 20 and 19 days respectively with gales; gales were also recorded on 13-15 days in February, May and September, on 11 days in January and April and on 4-5 days in June and August.

Highest Gusts.—The following gusts were the highest in the records of the stations

Avonmouth	73 kt	November 18
Rhoose	73 kt	November 18
London Airport	60 kt	November 18

Other high gusts during the year included

Lowther Hill	100 kt	January 20
Great Dun Fell	88 kt	November 21
Lerwick	87 kt	September 26

Highest Hourly wind.—At the following stations the highest hourly wind was greater than any previously recorded.

Isle of Grain	39 kt	January 19
Millport	50 kt	January 21
Ballykelly	53 kt	February 6

#### Temperature

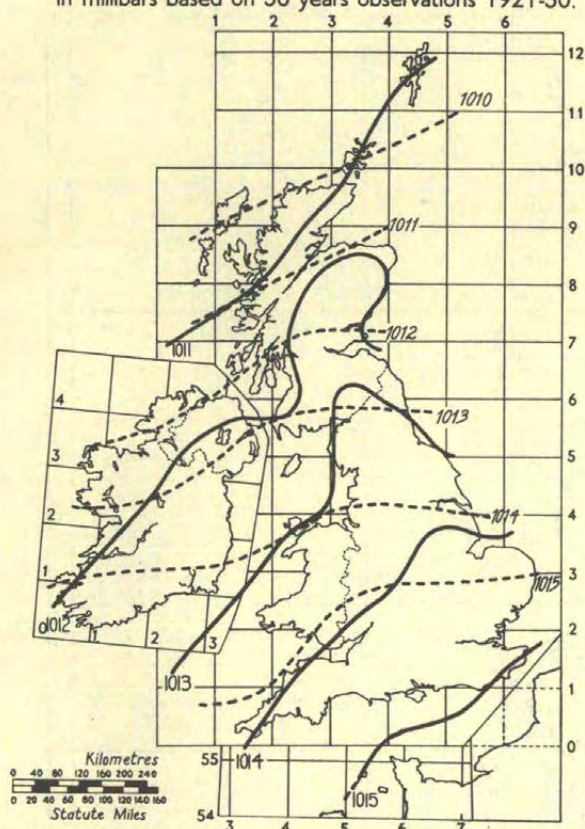
Over the year as a whole mean temperature was below the 1931-60 average for the second year in succession, the year 1963 in England and Wales being the coldest year of the century. In 1963 the deficit in England and Wales and in Northern Ireland was -1.2°C and in Scotland -0.7°C. In England and Wales the mean monthly temperature was below the average during the first nine months of the year except during March and June when it was equal to and 0.1°C above the average respectively; during the rest of the year temperature was above average in October and November but below in December. In Scotland temperature was below average throughout the year except during March, June and October when it was above, and during April when it equalled the average. In Northern Ireland deviations from average were somewhat similar, but mean temperature equalled the average during November. Over the United Kingdom as a whole, after a very cold winter, both spring and summer began warmer than, and ended cooler than, average. The autumn, on the other hand, began with below average temperatures, became milder than average in mid-season, and ended with temperatures considerably above average in England and Wales but below average in Scotland.



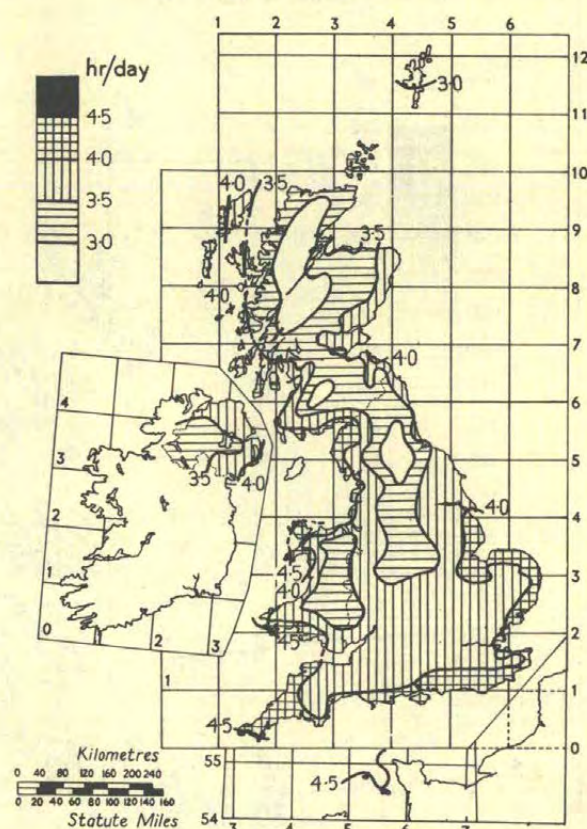
# ANNUAL WEATHER CHARTS 1963

## MEAN PRESSURE AT 9 G.M.T.

The dotted lines show the normal distribution of pressure in millibars based on 30 years observations 1921-50.

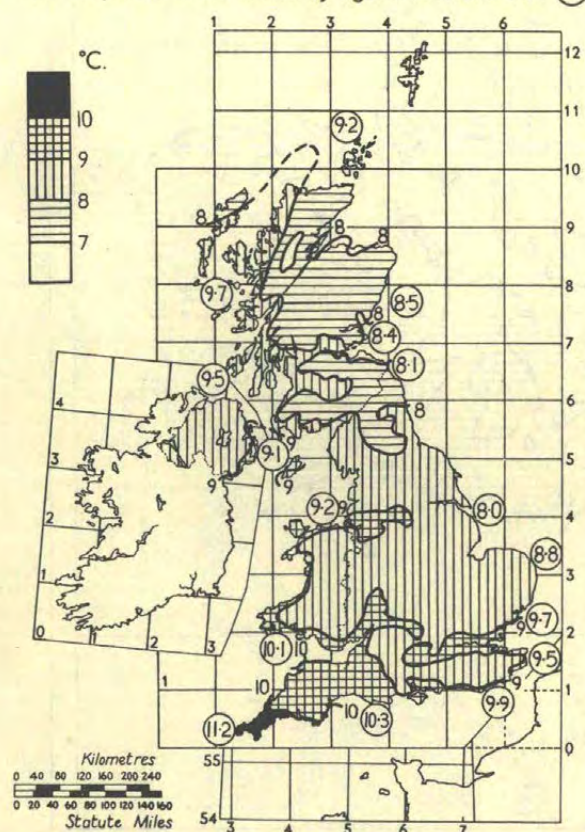


## BRIGHT SUNSHINE

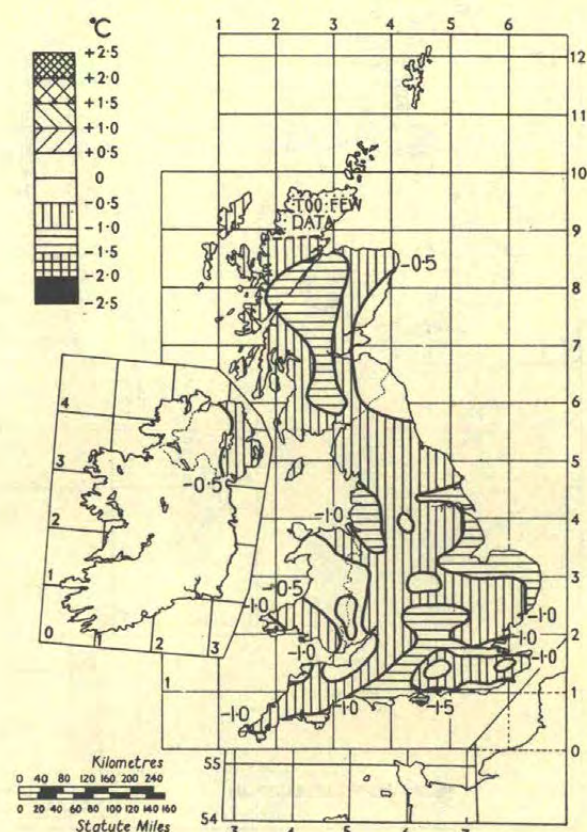


## MEAN AIR TEMPERATURE

Reduced to sea level by a correction of  $1^{\circ}\text{C}$ . for 500 ft. Sea temperatures are shown by figures in circles thus (10)



## ANOMALY OF MEAN 1 ft. EARTH TEMPERATURE

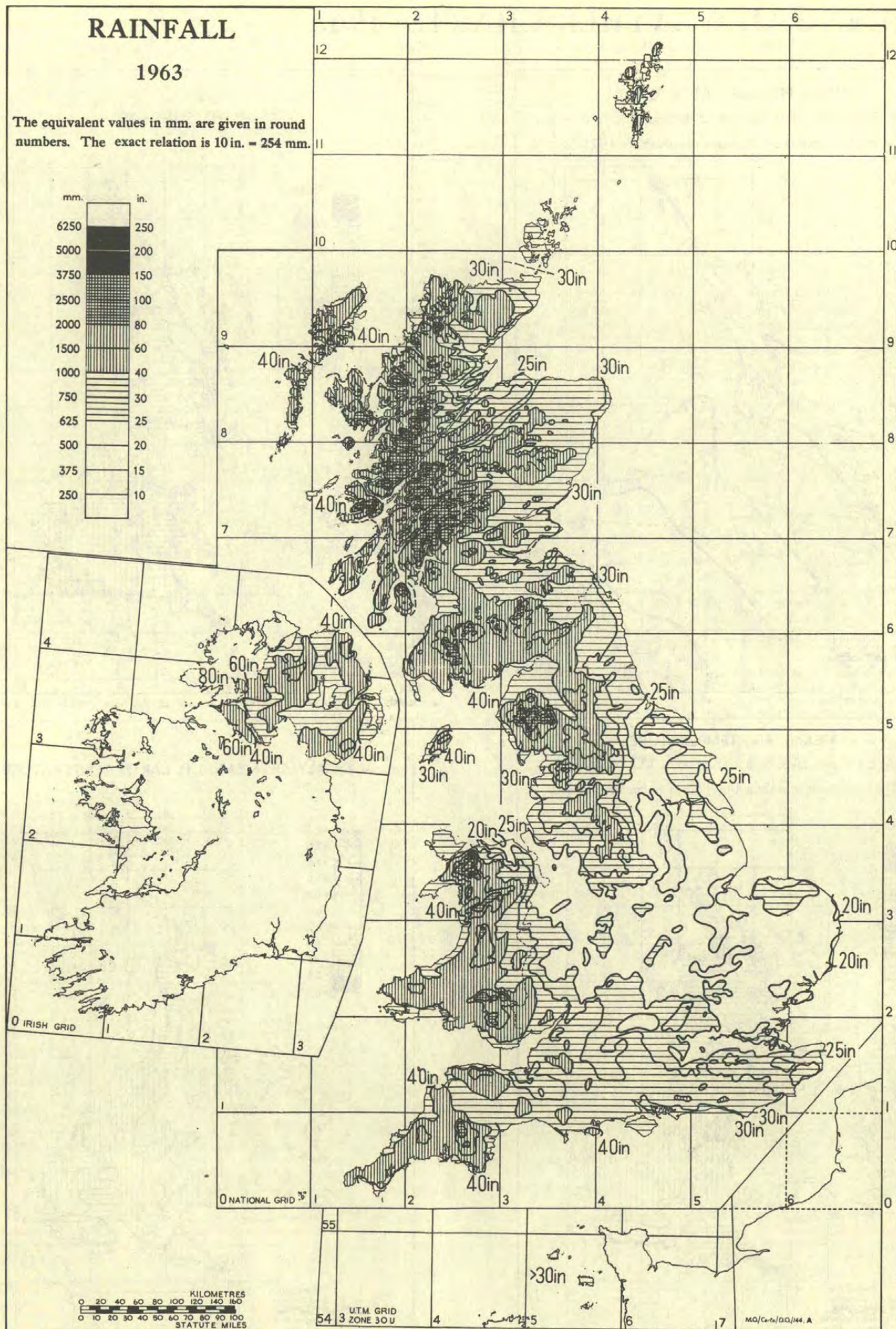
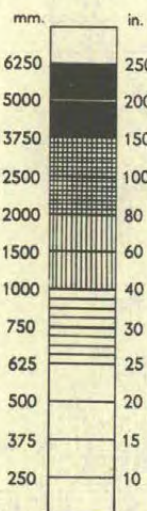




# RAINFALL

## 1963

The equivalent values in mm. are given in round numbers. The exact relation is 10 in. = 254 mm.





The very cold weather during the last week of 1962 continued without a break throughout January. In south-west England mean temperature was  $6\frac{1}{2}^{\circ}\text{C}$  below average, but in northern Scotland it was only  $2\frac{1}{2}^{\circ}\text{C}$  colder than usual, mean temperatures being  $2\frac{1}{2}^{\circ}\text{C}$  lower in the south of the country than in the north. The coldest period, with almost continuous frost, was from the 17th until the 25th; on the 23rd temperature fell to  $-20.6^{\circ}\text{C}$  at Hereford and on the same day the maximum at Ross-on-Wye was only  $-0.8^{\circ}\text{C}$ . It was by far the coldest January this century in England and Wales, and over central England it is estimated to have been the coldest since 1814.

February was another exceptionally cold month, the coldest this century apart from February 1947. Departures from average were generally greater in east and central England than in the west or in Scotland. The coldest days were 2nd-5th and around the 24th when screen temperatures fell to  $-18^{\circ}\text{C}$  in parts of Northumberland. Temperatures approached normal values on the last day of the month.

March saw the end of the very cold winter weather, although early morning frost was severe during the first three or four days. Day temperatures were generally above average during the periods 5th-8th and 14th-20th; temperature rose to  $17^{\circ}\text{C}$  in parts of central London on the 6th, and to  $14^{\circ}\text{C}$  in parts of Scotland on the 20th. There was a cold spell from 21st-23rd but the month ended less cold though with temperatures still a little below average.

April mean temperatures differed little from the long period average in all districts, day temperatures being slightly above the average and night temperatures slightly below. Generally, temperature was below average during the first half of the month, especially from the 4th-9th, and above during the second half.

In most places during May day-time temperatures were below the average until the 25th but rose considerably on the last two or three days of the month. Night minimum temperatures over the month as a whole were slightly below average but were about average during the second and third weeks. Air frost was recorded at one place or another on the 2nd-6th.

Mean temperatures during June were slightly above average although the average maximum temperature was slightly below average in eastern districts. Features of the month were the high day temperatures during the second week and the low day temperatures during the latter half.

In July mean temperatures were below average everywhere being particularly low in east and north-east England. Day temperatures were below the average until the 19th; they were especially low during the second week, but rose above the average about the 21st; the last few days of the month were very warm, afternoon temperatures on the 30th exceeding  $27^{\circ}\text{C}$  at many places.

August was another cool month, day temperatures being considerably below average after about the 3rd. In the Midlands and north-east England mean maximum temperatures were about  $2\frac{1}{2}^{\circ}\text{C}$  lower than usual.

The cool weather continued during September, maximum temperatures being well below the average until the 10th and minimum temperatures mainly below until the 15th. After a warm spell on the 13th-17th, when afternoon temperatures in parts of North Wales reached  $26^{\circ}\text{C}$ , day temperatures were again mostly below average until the end of the month.

Mean temperatures during October were above the average in all districts of the United Kingdom. In England and Wales it was the first month of the year with mean temperature appreciably above average (in June the excess was only  $0.1^{\circ}\text{C}$ ). Day temperatures, however, were generally below average during the first week.

During November mean temperatures were above average in England and Wales but below in Scotland. The excess was greatest in south-east England. There was a cold period mid-month, from about 13th-17th, and another during the last two or three days.

December was cold in England and Wales; maximum temperatures in south-east England were  $2.5^{\circ}\text{C}$  below the average, in sharp contrast with  $1.7^{\circ}\text{C}$  above the average in this area during November. There was a very cold spell from 19th to 23rd with day temperatures at many places around freezing point, and with severe night frosts.

Extreme temperatures during the year included:- (England and Wales)  $28.9^{\circ}\text{C}$  at Wisley on July 30, at Littlehampton on July 22 and at Ceinws on July 29,  $-20.6^{\circ}\text{C}$  at Hereford and Stansted Abbots on January 23; (Scotland)  $28.9^{\circ}\text{C}$  at Gordon Castle on July 30,  $-22.2^{\circ}\text{C}$  at Braemar on January 18; (Northern Ireland)  $26.1^{\circ}\text{C}$  at Lough Navar Forest on June 1st,  $-15.0^{\circ}\text{C}$  at Loughall on January 24.

The following table gives in degrees Centigrade the monthly and annual deviation from the 1931-60 average temperature for (a) England and Wales (b) Scotland and (c) Northern Ireland

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
(a)	-5.3	-4.5	0.0	-0.1	-0.8	+0.1	-1.1	-1.7	-0.7	+0.6	+1.3	-2.0	-1.2
(b)	-2.8	-3.0	+0.3	0.0	-0.9	+0.5	-1.0	-1.3	-0.5	+0.4	-0.3	-0.9	-0.7
(c)	-4.2	-3.5	+0.2	-0.1	-1.1	+0.2	-1.0	-1.3	-0.6	+0.9	0.0	-2.0	-1.2

#### Precipitation

Taking the year as a whole rainfall was slightly below the average over all countries of the United Kingdom, the percentage of the 1916-50 average being 94 over England and Wales (95 over England and 88 over Wales), 92 over Scotland and 96 over Northern Ireland. January and February were both dry nearly everywhere, the combined rainfall being less than that of any other January-February period since 1896. The Spring was generally wet. Wet summer months preceded and followed a mainly dry July, but the first two autumn months were generally dry although the season ended with an unusually wet November. December was very dry.

January 1963 was the driest January in England and Wales since 1881. Over large areas of southern England, South Wales, Lancashire and the Lake District, in spite of prolonged periods of snow, rainfall was less than 25 per cent of the average; over western Scotland it was only 17 per cent.

February was particularly dry in northern Scotland and north-west England where rainfall was only about 20 per cent of the average: Cornwall, on the other

hand, had more than 150 per cent of the average. Most districts had only small amounts of precipitation during the second half of the month, and this was particularly noteworthy in western Scotland where winter rainfall is usually heavy during this period. It was the fifth consecutive month with rainfall below the average.

Rainfall during March, however, was considerably above the average in all districts. It was the wettest March in Scotland since 1921, rainfall being more than twice the average in western Scotland, northern England and also over large areas of southern England, except the south-east. A few places in western Scotland had more than three times the average. Drier areas with rainfall below average included districts near the Moray Firth, the extreme south-east of Scotland and north-east England and over the Wirral and Cheshire Plain.

April rainfall was greater in the south than in the north. It was more than twice the average in coastal regions of Sussex and the Isle of Wight and in north Dorset; Worthing had its wettest April since 1923. On the other hand, north-east Scotland had only half its average amount of rainfall. The week commencing April 14 was the wettest with more than three times the average over much of southern England.

The changeable, wet weather of the previous two months continued during the first three weeks of May, particularly in Scotland where rainfall was more than twice the average in parts of Inverness-shire. In parts of Devon and Cornwall, however, it was less than half the average. About the 22nd the first dry warm spell of the summer began, but this was broken in the south-east on the 28th and 29th by cool north-easterly winds and outbreaks of thundery rain.

Although heavy thundery rain occurred locally especially in southern Britain, the dry spell lasted in many places well into June. Some areas in England and Wales had two or three weeks without measurable rain between May 22 and June 11. Weather became unsettled generally from the 14th with frequent periods of rain. The wettest week of the month was the last with more than three times the average rainfall over much of northern England.

The generally unsettled weather continued until about July 19th with rainfall well above average during the first week; in parts of south-west England, the Midlands and eastern England it was twice the average. Rainfall over the month as a whole, however, was below the average. The second of the summer's brief warm dry spells began on the 20th and many places had no measurable rain from then until August 1.

August was a generally wet month; in east and north-east England and eastern Scotland rainfall was more than 65 per cent above average, but in the west it was about average. At Gordon Castle and Montrose it was the wettest August since 1866 and 1877 respectively.

During September amounts were about average over a large part of the country but were more than 50 per cent below average in parts of Ayrshire, Cornwall and Devon, and 50 per cent above average in the extreme south-east of Berwickshire and locally in the east Midlands and Derbyshire. The first week was the wettest with nearly three times the average over south-east England.

October was a rather dry month, especially in England and Wales, but there were no long settled spells of dry weather. Rainfall was less than half the average in south-west England and also in some coastal areas of north-east England and eastern Scotland. The 9th and 20th were both very wet days in north-west Scotland; in Argyllshire more than 4 inches of rain was recorded on the 9th and 3 inches on the 20th.

November was a very wet month with above average rainfall in all districts and more than twice the average on Dartmoor, on the eastern part of the south coast around Southsea, over the Pennines and in the northern part of Northumberland. Parts of Kent had more than 250 per cent of the average. It was the wettest November at Edinburgh since before 1770.

In contrast, December was a very dry month, the driest December in England and Wales since 1933, and the driest on record in Northern Ireland, comparable records dating from 1900. Rainfall was less than 25 per cent of the average over parts of Scotland, Wales, the Midlands, Kent and Sussex; many places in these areas had between two and three weeks without measurable rain from the 1st.

Thunder was more frequent during every month, except July, somewhere or other in England and Wales, than in Scotland. In England and Wales it was most frequent during August (20 days) followed by June (19 days). There were 11 or 12 days during May, July and November, and 8 or 9 during March, April and September; the remaining months had 3 days or less. In Scotland June had 15 days followed closely by July with 14. The respective number of days were 10 and 11 during May and August, 5, 6, 7 and 8 during April, November, March and September and 3 or less during the remaining months of the year.

Very intense falls of rain in short periods, usually associated with thunderstorms, were most frequent during the first two weeks of June and were mainly confined to the summer months.

Falls classed as "Very Rare" were recorded on:

June 7 when 2.25 in fell in 35 min at Kensington Palace, London;

June 11 when 1.76 in fell in 20 min at Washing Bay, Co. Tyrone;

June 11 when 3.38 in fell in 90 min at Gortnamayog Forest, Londonderry.

Some "Remarkable" falls were reported on:

June 7 when 2.45 in fell in 120 min at Mill Hill, Middlesex;

June 9 when 1.30 in fell in 33 min at Whitehall, London;

July 2 when 2.49 in fell in 90 min at Richmond, Yorkshire.

"Noteworthy" falls were recorded on June 6, 7, 9-13 and 28, on July 1, 2, 5 and 6 and on August 11.

Dry spells with 15 or more days without measurable rain were recorded in many districts during January, February, May and September.

In January from the 4th, 5th or 6th there were at least 15 days without measurable rain over much of southern and north-west England, parts of the Midlands and parts of Wales. The period extended to 22-25 days in parts of Somersetshire, Wiltshire, Hampshire, Surrey and Sussex, in counties extending from Worcestershire and Warwickshire to Cheshire, and in counties west of the Pennines northwards to the Scottish Border.

In February many counties in England and Wales had 16-17 days without



measurable rain from the 15th. Most of west and central Scotland south of the Great Glen had 15 days or more from the 17th, and parts of Ross and Cromarty and of Inverness-shire had up to 25 days from the 8th.

In May parts of the Midlands and north-east England and also parts of Sussex, Denbigh and Carmarthen had 15 days or more from the 21st, 22nd or 25th. In parts of Cornwall the period extended to 25 days.

In September parts of the Midlands and eastern England had no measurable rain for 15 days from the 8th or 9th.

## Snow

One of the most outstanding features of 1963 was the extent, duration, and depth of snow-cover and the deep drifts during blizzards both in January and February. It will be seen from the section on "General Weather" that these blizzards were most severe during the first few days of January, especially in southern England, about mid-January in northern England and the Border Country and during the first week of February, first in the south, and then in the north of the United Kingdom.

Snow fell more frequently in England and Wales than in Scotland during January and February; but during the remainder of the year it was more frequent in Scotland. It was reported somewhere or other in Scotland on 29 days in January, 28 in February, 22 in March, 12 in April, 18 in May, 2 in June, 3 in July, 3 in September, 1 in October, 15 in November and 23 in December. The snow was mainly in the form of showers over high ground from June to October. The corresponding number of days for England and Wales were 31 in January, 24 in February, 9 in March, 5 in May, 10 in November and 11 in December.

Ground was snow-covered throughout January and February over most of the United Kingdom; in Scotland snow-cover was also reported on 13 days in March, 2 in April, 10 in November and 14 in December. The corresponding figures for England and Wales were 10, 2, 3 and 10.

A short statement in the monthly parts of this report gives a survey of snow depths in different parts of the country during the month under consideration. The following table adds to the statements for January and February and gives the level depth of snow-lying in inches at six stations in England on January 1st, at intervals of 10 days to February 15 and on February 28th.

STATION	January			February		
	1	11	21	31	10	20
Kielder Castle	13	10	10	10	15	20
Rothamsted	13	6	7	2	2	2
Oxford	7	6	9	5	3	2
Hampstead	12	9	14	9	3	4
Spadeadam	15	19	21	25	22	16
Bath	8	6	5	4	1	0

## Rainfall Summary

The following table gives the revised monthly and annual general rainfall amounts expressed as a percentage of the 1916-50 average for (a) England and Wales (b) Scotland and (c) Northern Ireland.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
(a) 35	51	173	131	82	153	67	128	93	64	162	33	94	
(b) 34	37	166	97	133	120	71	129	98	85	145	39	92	
(c) 33	83	163	100	124	141	72	99	83	110	163	25	96	

## Sunshine

The general sunshine over the year as a whole expressed as a percentage of the 1931-60 average was 98 over England and Wales 103 over Scotland and 107 over Northern Ireland. Sunshine was generally above the average over the whole of the United Kingdom during January, February, September and December. In England and Wales it was below average in six months of the year, being as much as about 25 per cent below the average in April and August. In Scotland and Northern Ireland, however, sunshine was below the average in only 5 and 4 months respectively, (see table at the end of this section).

Taking the country as a whole, after two sunny winter months, spring, summer and autumn were less sunny than normal in spite of a sunny July and September. March was sunny in Northern Ireland and the year ended with a sunny month over most of the United Kingdom.

Apart from January and February sunny periods lasting more than two or three days were rare. There were only three spells of warm sunny weather to relieve an otherwise dull summer; May 23-June 14, July 20-August 1 and September 12-September 18.

As regards the individual months:-

January, with sunshine nearly 30 per cent above the average over the country as a whole, was particularly sunny in north-west England and western Scotland; parts of Lancashire and Westmorland had more than twice their average and at Stornoway it was the sunniest January since records began in 1881.

During February sunshine was again considerably above average over the country as a whole being sunniest in the north-west but below average in the Midlands and north-east England. Auchincruive and Kilmarnock each had 50 hours more than average, and at Stonyhurst and at Squires Gate it was the sunniest February since records began in 1887 and 1904 respectively.

March sunshine was above average over much of northern and western Scotland but below average in Eastern districts of Fife and Aberdeenshire. It was also above average over much of north-west England and Northern Ireland, but mainly below average elsewhere south of the Border. During the week beginning the 18th Scotland recorded less than 50 per cent of the average.

April was generally dull; only a few places in the extreme north and north-west of Scotland had more than average sunshine. During the week beginning the 8th, however, sunshine was generally above the average, especially in the west and north.

During May sunshine amounts in Scotland were above average in the south, south-west and east but below in parts of the west and north-west. In England and Wales amounts were below the average in the south-west, but above in the north-east. The last week of the month was sunny over most of the country.

June sunshine exceeded the average in the west and north-west, but the east coast was extremely dull. Most of England and Wales was sunny during the first two weeks, but the remainder of the month was dull bringing the averages for the month below normal over the country as a whole.

July was mainly sunny, particularly in Scotland where amounts were less than average only in eastern districts and near the Moray Firth. In England and Wales sunshine was within 5 per cent of the average in all districts, being above average in the north-west, east and south-east but below average elsewhere. It was sunny over most of the country from the 20th.

August was a dull month; only in the Shetlands were sunshine totals almost normal. At Fortrose, with only half its average amount, it was the dulllest August since 1910.

September sunshine was generally above average except in east and south-east England; the 12th-18th was particularly sunny in north-west England. It was the sunniest September at North Berwick and Glasgow since records began in 1922 and 1914 respectively.

October sunshine in Scotland was above average except in the north and the extreme west, but in parts of southern England sunshine was little more than half the average amount.

Sunshine was below average in Scotland during November except locally in the west and north. In England and Wales it was generally more sunny in the south than in the north, but during the week beginning November 25 there was less than 30 per cent of the average over western districts of England and Wales.

December was sunny in all districts except north-east England. Parts of north-west England and western Scotland had more than 170 per cent of average; sunshine was more than twice the average in most districts during the week beginning December 16th.

North-west England was the sunniest district during 1963, with below average amounts only during April, August and November; the Midlands was the dulllest district with above average sunshine only during January, September and December.

The sunniest stations in each month were as follows:- January, St. Mawgan 114.5 hr; February, Sellafield 135.0 hr; March, Dale Fort 148.4 hr; April, Benbecula 190.2 hr; May, Shanklin 250.5 hr; June, Dale Fort 235.2 hr; July, Eastbourne 287.4 hr; August, Shanklin 210.6 hr; September, Dunbar 188.1 hr; October, Dunbar 143.4; November, Scilly 97.5; December, Aberystwyth 82.2 hr.

The 10 sunniest stations in 1963 in ranking order were:-

No.	Station	Hours
1	Shanklin	1788.8
2	Eastbourne	1721.9
3	Sandown	1703.3
4	Dale Fort	1702.2
5	Jersey (Gorey Castle)	1696.4
6	Bognor	1692.0
7	Jersey (St. Helier)	1691.7
8	Littlehampton	1691.6
9	Ventnor	1669.6
10	Folkestone	1667.5

The following table gives monthly and annual general values of sunshine, expressed as a percentage of the 1931-60 average for (a) England and Wales (b) Scotland and (c) Northern Ireland.

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
(a) 127	111	93	76	101	95	101	75	106	88	96	111	98	
(b) 131	134	100	94	103	91	114	71	110	94	88	107	103	
(c) 128	120	110	89	95	101	118	77	115	95	100	135	107	

## Fog

Except for October, fog at 09 hr was more frequent every month in England and Wales than in Scotland. The foggiest month of the year was December with fog at one place or another on 30 days in England and Wales, (where it persisted for much of the period from December 26th to 28th) and 26 days in Scotland. During remaining months in England and Wales January, February and April each had 28 days - fog being widespread and persisting all day on January 11-14 and 23-25, and on February 8, 9, 22 and 25 -, March, June and November had 24 or 25 days and the remainder 18-22 days. In Scotland January and April to September all had between 14 and 18 days, except March which had only 11 days, and the remaining months between 23 and 26 days, except October which was the foggiest month of the year in Scotland with 29 days.

The foggiest district was the Midlands and the least foggy eastern England where only three days of fog were reported during the four months May to August.

## Miscellaneous Phenomena

The aurora was most frequently observed during the early part of the autumn (18 and 17 nights during September and October respectively) and least frequently (5 nights) during the summer months. It was visible on only 4 nights during each of the three months March, May and August, on 7-8 nights during November and February and on 10-12 nights during January, March and December.



TABLE I.—DISTRICT VALUES FOR THE YEAR 1963 [FIRST PUBLISHED 1908, REVISED 1928, 1941 and 1956]

DISTRICT	AIR TEMPERATURE					EARTH TEMPERATURE		RAINFALL		SUNSHINE
	Highest	Lowest	Difference from Average			At 1 ft. Difference from Average	At 4 ft. Difference from Average	Percentage of Average	No. of Days Difference from Average	Percentage of Average
			Max.	Min.	Mean					
0 SCOTLAND, N. EASTERN	°C. 27.8	°C. -18.3	°C. -0.6	°C. -0.7	°C. -0.6	°C. —	°C. —	% 91	-24	% 103
1 SCOTLAND, E.	28.9	-22.2	-1.1	-0.7	-0.9	—	—	107	+13	97
2 ENGLAND, N. E.	27.2	-18.3	-1.3	-0.9	-1.1	-0.7	-0.8	100	-11	95
3 ENGLAND, E.	27.8	-20.6	-1.5	-1.1	-1.3	-1.1	-1.0	96	+6	94
4 MIDLAND COUNTIES	28.3	-18.3	-1.4	-1.0	-1.2	-0.8	-0.5	95	+1	98
5 ENGLAND, S. E. WESTERN	28.9	-16.7	-1.6	-0.8	-1.2	-1.1	-0.9	103	+5	95
6 SCOTLAND, W.	26.7	-18.3	-1.1	-0.8	-0.9	-0.7	-0.8	93	-14	109
7 ENGLAND, N. W. (and N. Wales)	28.9	-18.3	-1.2	-0.9	-1.0	-0.9	-0.7	86	-13	114
8 ENGLAND, S. W. (and S. Wales)	27.5	-17.2	-1.6	-0.9	-1.3	-0.9	-0.9	100	+3	92
NORTHERN IRELAND	26.1	-15.0	-0.9	-1.1	-1.0	—	—	96	-12	107

\*At Falkirk — Annual values not available.

TABLE II—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND—THE YEAR 1963 [First Published 1914]

The Summary showing the duration of Winds between stated limits of velocity, with Extreme Velocities, at anemograph stations, will be found at Table IX, in the Wind Section.

TABLE III—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE AND OF WEATHER OBSERVATIONS, YEAR 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL		WEATHER										BRIGHT SUNSHINE			
				Means of		Mean Temperature of A and B	Difference from Average	Highest Maximum and Lowest Minimum		Rainfall (Terminal hour 9 G.M.T.)				Number of days		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at 9h.	Air Frost	Grass min. 0°C or less	Gale	Daily Mean	Percentage Average	
				A Max.	B Min.			Total Fall	Per-centage of Aver-age	Amount	Date	0.1 in. (0.2 mm.) or more	0.4 in. (1.0 mm.) or more																
														Max.	Min.	1ft.	4ft.												in.
		Max. Min.	ft.	°C	°C	°C	°C	°C	°C	°C	°C	°C	in.	%	in.										hr.	%			
0	SCOTLAND, N.																												
Zetland	Hamnaoe	9 9	70	9.5	5.8	7.7	—	20.6	-2.2	—	—	40.22	—	1.98	14 Nov	224	168	25	16	13	1	3	3	30	—	47	3.41	—	
	Lerwick Obs'y.	21-9	269	8.7	4.8	6.7	-0.5	19.6	-6.7	—	—	37.92	94	1.77	14 Nov	223	163	57	36	4	54	4	12	50	93	44	2.99	101	
	Baltasound	9 9	78	9.4	4.7	7.1	—	21.1	-6.1	7.0	—	38.89	87	1.18	6 Nov	235	179	61	35	13	0	2	1	46	—	32	2.79	—	
Orkney	Sule Skerry	9 9	43	9.5	6.5	8.0	—	20.5	-1.5	—	—	29.30	—	1.00	5 Aug	228	160	14	4	4	1	0	6	4	26	48	—	—	
	Stenness	9 9	75	10.0	4.7	7.3	—	21.7	-12.8	7.4	—	32.46	—	0.77	14 Mar	249	172	37	26	3	11	1	0	50	121	35	3.22	—	
	Costa	9 9	115	9.9	5.3	7.6	—	22.2	-4.4	—	—	35.11	—	1.12	12 Nov	242	184	49	16	15	38	1	6	33	62	52	3.29	—	
	Kirkwall	21-9	84	9.7	5.1	7.4	—	20.3	-3.9	—	—	31.38	80	0.93	7 Nov	231	170	60	21	37	0	0	6	41	87	18	3.16	95	
Caithness	Dounreay	9 9	70	10.6	4.1	7.3	—	26.1	-10.0	—	—	29.82	—	1.34	3 Sept	230	167	17	23	0	6	1	2	54	105	32	—	—	
	Wick	21-9	119	9.7	4.7	7.2	-0.7	19.0	-9.2	—	—	27.80	93	1.00	4 Aug	228	149	43	20	2	33	0	6	56	105	6	3.38	95	
Sutherland	Cape Wrath	21-9	367	9.4	5.5	7.5	-0.7	25.0	-5.2	—	—	35.69	75	0.97	14 Nov	211	155	34	9	7	7	1	27	37	65	50	—	—	
	Achany	9 9	280	10.6	2.6	6.6	—	26.1	-19.4	7.4	7.5	30.78	74	0.91	3 Sept	252	158	46	70	18	3	1	5	99	202	0	—	—	
	Strathay	9 9	120	10.6	3.7	7.1	-0.7	26.7	-12.8	—	—	32.64	76	1.70	26 June	248	181	49	31	2	12	2	1	78	—	3	3.17	104 S	
Ross & Cromarty	Stornoway	21-9	11	10.6	5.1	7.9	-0.6	21.4	-7.2	—	—	35.43	90	0.65	12 Nov	227	181	38	5	7	27	1	2	51	100	25	3.67	109	
	Balmacara	9 9	2	11.7	5.3	8.5	—	27.2	-6.7	—	—	51.45	—	1.30	24 Mar	214	178	—	4	—	—	—	—	50	—	—	—	—	
	Poolewe	9 9	20	11.4	5.3	8.3	—	26.7	-6.7	—	—	45.86	—	1.23	5 Aug	187	168	7	—	1	0	0	3	51	106	15	3.70	—	
	Iverpoll	9 9	45	11.3	4.5	7.9	—	26.7	-11.7	—	—	39.53	—	1.15	20 Oct	204	176	24	34	11	0	0	—	66	—	5	—	—	
	Achnashellach	9 9	220	11.5	3.4	7.5	-0.6	26.7	-10.6	—	—	63.58	78	2.07	9 Oct	222	187	17	8	2	0	0	1	88	—	5	—	—	
	Kinlochewe	9 9	76	11.6	4.2	7.9	—	27.8	-11.1	7.7	—	60.62	—	2.35	9 Oct	208	190	25	16	1	3	2	6	77	148	1	2.66	—	
	Blackbridge	9 9	690	—	—	—	—	—	—	—	—	34.38	—	1.11	26 June	220	165	—	—	—	—	—	—	—	—	(2.76)	—	—	
	Fortrose	9 9	15	10.5	5.7	8.1	-0.7	24.4	-7.2	—	—	24.23	95	1.11	26 June	175	128	—	25	—	—	—	7	52	—	—	3.11	89	
	Tarbatness	21-9	60	10.2	5.3	7.7	—	27.0	-8.0	—	—	22.56	—	1.21	5 Aug	170	116	27	16	0	0	0	8	40	—	4	—	—	
Inverness	Benbecula	21-9	19	10.7	5.8	8.3	-0.7	24.4	-6.2	—	—	36.95	82	0.87	19 Oct	219	161	27	6	5	25	2	1	46	92	58	4.17	—	
	Iale of Rhum	9 9	15	11.5	5.2	8.3	—	25.6	-7.8	8.9	9.1	76.41	—	1.52	31 Mar	208	183	12	10	1	25	1	0	51	166	50	—	—	
	Prabost	9 9	220	10.6	4.9	7.7	—	25.6	-6.7	—	—	56.66	—	1.52	24 Mar	243	198	21	39	0	42	2	0	53	141	44	3.70	—	
	Duntulm	9 9	294	10.3	5.3	7.8	-0.8	23.9	-4.4	—	—	42.09	79	1.17	24 Mar	223	185	23	10	22	3	1	3	35	88	32	3.73	113 S	
	Onich	9 9	48	11.3	4.8	8.1	-0.4	25.6	-8.9	—	—	59.14	73	1.81	9 Oct	211	184	19	5	4	0	3	2	63	140	20	3.00	103 S	
	Fort William	9 9	27	11.6	4.3	7.9	—	26.1	-11.7	8.0	8.4	42.55	—	1.35	20 Oct	205	161	26	5	0	12	3	2	77	—	17	2.86	—	
	Fort Augustus	9 9	70	10.8	4.2	7.5	-0.8	26.1	-12.2	—	—	32.13	—	0.83	9 Oct	222	157	26	17	1	1	1	4	74	—	14	2.97	—	
	Cannich	9 9	350	10.6	1.6	6.1	—	26.1	-18.3	—	—	38.64	83	1.20	20 Oct	206	161	17	61	2	0	3	0	124	201	2	—	—	
	Inverness	9 9	13	11.5	4.7	8.1	—	26.7	-7.8	—	—	23.17	—	1.30	26 June	161	122	8	32	0	0	0	6	72	113	0	3.38	—	
	Achnagoichan	9 9	1000	9.8	2.1	5.9	—	25.0	-16.1	6.7	—	33.31	—	1.04	31 Aug	224	176	—	—	—	—	—	—	110	—	—	—	—	
	Glenmore Lodge	9 9	1120	9.8	1.7	5.7	—	24.5	-18.2	—	—	42.37	—	1.57	20 Aug	217	168	—	89	—	—	—	5	114	178	—	3.28	—	
1	SCOTLAND, E.																												
Nairn	Nairn	9 9	20	11.1	3.7	7.4	-1.1	27.2	-12.2	—	—	24.58	98	1.20	5 Aug	214	121	15	41	0	0	0	9	80	141	2	3.45	97	
Moray	Grantown-on-Spey	9 9	720	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Forres	9 9	155	11.0	3.9	7.5	—	26.7	-13.3	7.6	7.9	24.41	99	1.14	5 Aug	187	123	24	45	11	1	0	3	81	105	0	3.44	93	
	Kinloss	21-9	15	11.0	4.1	7.5	—	27.1	-12.2	—	—	24.53	—	1.18	19 Aug	200	125	51	37	4	35	2	2	88	134	12	3.48	—	
	Elgin	9 9	92	11.4	4.6	8.0	—	27.8	-11.1	—	—	27.43	—	1.38	5 Aug	205	140	30	35	0	0	0	0	66	103	0	3.88	—	
	Lossiemouth	9 9	21	11.0	4.0	7.5	-0.8	27.2	-10.6	—	—	25.68	—	1.43	5 Aug	200	134	42	23	5	26	0	2	79	138	5	—	—	
	Gordon Castle	9 9	104	11.4	4.3	7.9	-0.7	28.9	-11.1	—	—	29.95	101	1.74	4 Aug	194	140	26	22	10	0	0	—	61	—	1	3.39	96	
	Banff	9 9	80	10.8	4.8	7.8	—	24.4	-9.4	—	—	33.49	—	1.87	4 Aug	222	157	36	26	17	1	2	11	54	—	7	3.25	—	
Aberdeen	Braemar	9 9	1113	9.3	—	—	—	23.9	-9.2	—	—	36.94	101	1.38	18 June	232	187	—	78	—	—	—	—	—	—	—	—	—	
	Balmoral	9 9	927	9.4	1.4	5.4	-1.2	23.9	-18.9	—	—	34.72	104	0.90	18 June	247	169	52	81	0	0	5	—	116	158	1	—	—	
	Dinnet	9 9	580	10.4	2.7	6.5	—	24.4	-16.7	7.4	—	32.45	—	1.28	18 June	214	146	30	73	1	0	2	4	97	153	5	—	—	
	Huntly	9 9	405	—	—	—	—	—	—	—	—	34.64	—	(1.38)	4 Aug	220	161	—	—	—	—	—	—	—	—	—	—	—	
	Fyvie Castle	9 9	218	10.6	2.8	6.7	—	23.9	-15.6	—	—	33.92	—	1.40	4 Aug	201	169	20	66	2	0	0	—	95	—	5	3.45	—	
	Craibstone	9 9	300	9.9	4.2	7.1	-0.7	21.1	-9.4	7.5	7.5	34.60	102	1.26	4 Aug	227	150	50	72	7	14	3	9	70	103	15	3.56	93	
	Dyce	21-9	190	10.3	3.8	7.1	-0.8	22.2	-12.3	—	—	33.67	96	1.36	4 Aug	204	149	57	56	2	32	6	8	80	154	5	3.53	—	
	Aberdeen	9 9	170	10.2	4.3	7.3	-0.8	21.1	-10.6	—	—	30.61	93	1.05	4 Aug	190	139	—	—	—	—	—	—	11	68	119	—	3.65	93
	Hilton	9 9	230	10.2	4.6	7.4	—	21.1	-9.4	7.7	—	31.71	—	1.09	4 Aug	199	146	39	51	7	0	4	24	64	121	2	—	—	
	Udny	9 9	352	9.9	3.6	6.7	—	21.1	-10.0	—	—	36.72	—	1.39	30 Aug	221	171	39	70	5	2	4	14	81	137	1	3.59	—	
	Rattray Head	21-9	85	9.7	5.3	7.5	-0.5	20.0	-5.1	—	—	29.04	102	1.98	4 Aug	227	163	40	7	7	9	1	8	41	—	9	3.69	—	



TABLE III (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL, AND SUNSHINE AND OF WEATHER OBSERVATIONS, YEAR 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum		Total Fall	Per-centage of Average			Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at 9h.	Air Frost	Grass min. 0°C or less	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					A Max.	B Min.			Maximum	Minimum			Amount	Date	-0.1 in. (0.2 mm.) or more	-0.4 in. (1.0 mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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1	SCOTLAND, E.—cont.		G.M.T.	ft.	°C	°C	°C	°C	°C	°C	°C	°C	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%	in.	%



TABLE III (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE AND OF WEATHER OBSERVATIONS, YEAR 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days								BRIGHT SUNSHINE	
					Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum		Total Fall	Percentage of Average			Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at 9h.	Air Frost	Grass min. 0°C or less	Gale	Daily Mean
					A Max.	B Min.			Maximum	Minimum			Amount	Date	01 in. (0.2 mm.) or more	0.04 in. (1.0 mm.) or more												
																	°C	°C										
2 ENGLAND, N.E.			G.M.T.	ft.	°C	°C	°C	°C	°C	°C	°C	°C	in.	%	in.	%									hr.	%		
Northumb-berland	Kielder Castle	9.9	660	10.3	2.2	6.3	—	25.0	-18.3	8.1	—	51.55	107	1.70	23 Nov	245	180	44	58	6	3	5	0	109	157	0	—	
	Bellingham	9.9	849	10.0	2.8	6.4	-1.0	25.6	-11.7	—	—	36.07	91	1.40	4 Aug	232	175	—	76	—	—	—	9	94	—	—		
	Haydon Bridge	9.9	270	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Corbridge	9.9	160	11.5	3.2	7.3	—	25.6	-18.3	—	—	26.32	—	1.31	4 Aug.	173	128	38	67	5	2	3	24	91	121	3	—	
	Berwick-on-Tweed	9.9	78	—	4.8	—	—	22.2	-11.7	—	—	27.22	117	1.47	4 Aug.	214	144	32	23	6	14	8	16	61	—	6	3.66	
	Ponteland	9.9	220	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Cockle Park	11.8	326	10.6	4.0	7.3	-0.9	22.8	-12.8	7.8	—	31.89	111	1.81	4 Aug.	217	159	36	71	0	13	4	18	75	106	7	3.34	
	Acklington	21-9	138	10.6	4.1	7.3	—	21.6	-12.3	—	—	28.73	—	1.21	4 Aug.	204	145	48	58	21	17	5	17	75	—	7	3.84	
	Tynemouth	21-9	95	10.3	5.9	8.1	-1.1	23.2	-7.4	—	—	28.79	108	2.10	4 Aug.	188	144	46	22	20	0	5	20	46	83	15	3.54	
	Chopwellwood	9.9	446	11.0	4.0	7.5	-1.1	25.6	-10.6	—	—	31.54	108	1.62	4 Aug.	196	147	46	73	0	0	0	7	84	137	1	—	
Durham	Ushaw College	9.9	594	10.8	3.9	7.3	-1.1	25.6	-10.0	—	—	26.80	92	1.04	4 Aug.	175	143	39	75	1	4	4	128	79	—	4	—	
	Houghall	9.9	123	11.6	3.5	7.5	-1.1	25.6	-15.6	—	—	27.22	98	1.26	4 Aug.	198	152	33	69	8	10	5	13	88	129	2	3.54	
	Durham	9.9	336	11.3	4.2	7.7	-1.0	25.0	-13.3	8.5	8.6	26.44	100	1.26	4 Aug.	193	142	—	—	—	—	—	77	124	—	3.52		
	Gateshead	9.9	509	10.6	4.8	7.7	—	25.0	-7.8	—	—	28.10	—	1.76	4 Aug.	197	134	—	34	—	—	—	31	68	84	—	3.62	
	Middleton St. George	21-9	115	11.4	4.6	8.0	—	26.2	-11.6	—	—	22.98	—	1.44	4 Aug.	187	127	48	67	6	19	9	27	122	102	0	3.52	
	West Hartlepool	9.9	30	11.4	5.5	8.5	—	23.9	-8.9	—	—	24.58	—	1.35	4 Aug.	181	134	26	60	17	0	6	26	53	71	2	3.36	
	Dishforth	21-9	105	11.8	4.7	8.3	—	27.1	-11.4	—	—	23.15	93	1.28	4 Aug.	203	113	48	66	4	12	10	24	73	100	1	3.73	
	Thirsk	9.9	111	11.9	4.4	8.1	—	26.1	-13.9	—	—	22.50	—	1.88	12 June	178	121	39	67	4	0	7	18	78	142	6	—	
	York	9.9	57	12.0	5.2	8.6	-1.1	26.7	-10.6	8.8	8.9	22.59	91	1.08	4 Aug.	201	118	29	67	3	6	8	20	71	—	0	3.59	
	Ampleforth	9.9	313	11.0	4.4	7.7	-1.1	24.4	-11.7	—	—	26.38	88	1.18	6 July	184	141	—	—	—	—	—	28	75	127	—	—	
Yorks., N. Riding	Redcar	9.9	25	11.7	5.7	8.7	—	25.0	-8.3	—	—	24.25	101	1.74	4 Aug.	209	135	—	26	—	—	—	6	55	—	—	3.59	
	Whitby	9.9	135	11.3	5.3	8.3	—	23.9	-8.3	—	—	24.18	92	1.38	4 Aug.	184	140	46	—	3	4	3	17	50	—	3	3.69	
	Scarborough	9.9	118	11.4	5.8	8.6	-1.2	23.9	-7.2	9.0	9.5	24.72	97	1.27	28 June	190	140	26	35	3	1	2	15	46	70	3	3.66	
	Silpho Moor	9.9	665	10.0	3.8	6.9	—	23.3	-8.3	7.3	—	36.30	—	1.68	28 June	237	159	—	—	—	—	2	61	89	144	2	3.84	
	Fylingdales Moor	9.9	805	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Whitby C/Guard	21-9	200	10.6	5.3	7.9	—	23.3	-8.5	—	—	20.63	—	1.30	4 Aug.	177	123	36	21	3	7	11	19	53	81	20	—	
	High Mowthorpe	9.9	574	10.2	3.8	7.0	—	23.9	-10.0	—	—	32.22	105	1.64	4 Aug.	213	160	47	75	1	5	4	27	83	125	6	—	
	Hull	9.9	8	11.9	5.2	8.6	-1.3	26.7	-10.0	8.7	8.5	27.05	107	2.00	28 June	187	135	22	44	1	0	4	7	63	100	4	3.65	
	Leconfield	21-9	24	11.5	4.6	8.1	—	25.3	-14.0	—	—	24.50	—	1.44	28 June	186	135	49	60	2	38	19	17	72	119	4	3.72	
	Filey	9.9	122	10.7	4.7	7.7	—	22.8	-11.7	—	—	24.85	—	1.33	28 June	188	124	37	55	6	15	6	8	65	86	2	3.49	
Lincoln	Bridlington	9.9	157	10.7	4.6	7.7	—	22.8	-10.6	—	—	28.21	—	1.45	4 Aug.	206	138	40	39	4	23	9	20	66	143	18	3.88	
	Spurn Head	21-9	29	10.7	6.2	8.5	-1.2	24.0	-7.1	—	—	21.00	—	1.56	28 June	171	117	45	29	1	2	16	14	53	—	5	3.89	
	Gainsborough	9.9	110	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Navenby	9.9	60	12.1	4.1	8.1	—	27.2	-13.3	—	—	21.51	—	1.09	2 Sept.	192	122	41	63	2	3	16	19	87	—	7	—	
	Waddington	21-9	224	11.5	4.8	8.1	-1.3	26.6	-11.0	—	—	21.37	—	1.53	6 July	171	110	52	58	1	13	16	22	75	99	2	3.83	
	Lincoln	9.9	22	12.2	4.0	8.1	—	26.7	-14.4	8.9	8.7	21.63	—	0.91	2 Sept.	176	112	22	65	0	0	6	36	83	118	3	3.70	
	Cranwell	9.9	205	11.7	4.3	8.0	-1.4	26.5	-12.3	8.9	9.1	20.33	86	1.10	1 Sept.	163	106	41	53	1	8	6	19	78	114	0	3.94	
	Cleethorpes	9.9	23	11.6	5.4	8.5	-1.2	25.6	-8.3	—	—	21.81	93	1.87	28 June	168	121	—	55	—	—	—	3	70	—	—	4.09	
	Manby	21-9	55	11.7	4.7	8.2	—	26.5	-10.8	—	—	23.12	—	1.05	4 Aug.	176	122	50	57	0	24	12	16	79	97	4	4.11	
	Skegness	9.9	15	11.4	5.4	8.4	-1.1	24.4	-10.0	—	—	23.15	104	1.96	4 Aug.	160	114	25	37	1	9	4	18	71	98	5	3.93	
3 ENGLAND, E.																												
Norfolk	Terrington	9.9	13	11.9	4.6	8.3	—	26.7	-14.4	8.7	—	21.46	105	1.05	17 Aug.	170	112	22	42	0	2	13	16	78	109	0	4.12	
	St. Clement	9.9	76	12.0	4.7	8.3	—	26.3	-15.4	—	—	21.57	—	1.12	17 Aug.	166	104	45	46	1	12	14	22	83	111	1	—	
	Marham	21-9	13	12.0	4.7	8.3	—	26.3	-15.4	—	—	21.57	—	1.12	17 Aug.	166	104	45	46	1	12	14	22	83	111	1	—	
	Santon Downham	9.9	80	12.6	3.1	7.9	—	26.7	-18.9	8.5	8.5	22.74	—	0.98	17 Aug.	180	130	—	64	—	—	—	11	109	166	—	—	
	West Raynham	21-9	250	11.4	4.5	7.9	—	25.5	-13.0	—	—	25.01	—	1.22	17 Aug.	180	121	51	57	4	23	13	20	90	127	2	4.21	
	Cromer	9.9	178	11.3	5.3	8.3	-1.5	25.0	-12.2	—	—	23.83	89	1.13	28 June	167	119	24	—	—	—	—	1	59	92	—	4.36	
	Sprowston	11.8	93	12.0	4.4	8.2	-1.4	25.6	-15.0	8.9	—	21.41	84	1.25	28 Aug.	165	109	32	57	3	10	10	9	85	130	4	3.96	
	Burlingham	9.9	89	11.7	4.9	8.3	—	25.6	-10.6	—	—	21.35	86	1.21	6 July	161	105	35	60	2	19	7	17	77	103	5	4.21	
	Gorleston	21-9	12	11.1	6.1	8.6	-1.3	22.1	-10.3	9.4	9.6	20.23	85	1.65	6 July	167	106	43	27	4	5	10	18	61	88	7	4.11	
	Midsenhall	9.9	15	12.5	5.2	8.9	—	27.3	-15.4	—	—	19.91	92	1.22	17 Aug.	159	97	45	52	1	12	11	16	80	105	1	4.09	
Suffolk	East Bergholt	9.9	14	12.6	4.4	8.5	—	26.1	-16.1	—	—	21.79	—	1.07	2 July	187	104	35	48	1	9	10	18	89	142	2	—	
	Wattisham	21-9	292	11.6	4.6	8.1	—	24.8	-12.1	—	—	21.61	—	1.06	18 Nov.	174	103	45	41	2	6	12	26	91	115	1	—	
	Lowestoft																											



TABLE III (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE AND OF WEATHER OBSERVATIONS. YEAR 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation		Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER										BRIGHT SUNSHINE	
						Means of				Highest Maximum and Lowest Minimum		Most in a day				Precip'n		Number of days										Daily Mean	Percentage of Average		
						A Max.	B Min.	Mean Temperature Mean of A and B	Difference from Average	Maximum	Minimum	Amount	Date			0.1 in. (0.2 mm.) or more	0.4 in. (1.0 mm.) or more	Snow or Sleet	Snow lying at 9h.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at 9h.	Air Frost	Grass min. 0°C or less	Gale					
G.M.T.		ft.	°C	°C	°C	°C	°C	°C	°C	°C	In.	%	in.												hr.	%					
4 MIDLAND COUNTIES—cont.																															
Leicester			9 9	392	11.7	3.9	7.8	—	27.2	—16.1	—	—	—	24.17	—	1.40	2 Sept	189	123	34	51	3	6	10	23	83	131	10	3.73	—	
Bugbrooke Mills			9 9	228	11.9	3.8	7.9	—	27.8	—15.0	—	—	—	23.12	—	0.95	3 Aug	183	124	29	58	0	0	1	39	99	—	0	3.62	—	
Caldecott			9 9	175	12.4	3.3	7.9	—	27.2	—17.2	—	—	—	19.51	—	1.27	1 Sept	163	107	—	38	—	—	—	9	103	123	—	0	3.64	—
Northampton			9 9	193	12.1	4.0	8.1	—	27.2	—15.0	9.2	—	—	22.02	97	1.25	1 Sept	183	123	33	57	1	0	14	22	93	120	0	3.56	—	
Wittering			21-9	212	11.8	4.7	8.3	—	26.6	—13.9	—	—	—	20.33	—	1.01	29 Mar	169	108	48	46	2	14	16	22	81	130	2	3.98	—	
Warwick			9 9	450	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Edgbaston			21-9	536	11.4	5.5	8.5	—1.1	27.0	—10.6	8.2	8.9	26.17	85	0.74	31 Oct	182	128	40	61	5	3	9	30	89	93	0	3.57	101	—	
Luddington			9 9	138	12.3	4.3	8.3	—	27.2	—16.1	—	—	—	20.82	88	0.84	17 Nov	174	112	33	47	0	9	11	22	92	121	0	3.69	—	
Stratford on Avon			9 9	160	12.4	4.2	8.3	—	27.8	—16.1	9.6	—	—	21.60	90	0.96	17 Nov	159	111	34	47	0	6	10	20	93	139	3	3.80	—	
Elmdon			21-9	319	11.7	4.4	8.1	—	26.7	—16.0	—	—	—	24.21	90	0.80	13 Aug	181	117	43	45	3	16	10	34	83	117	2	3.89	—	
Shipston on Stour			9 9	365	11.7	4.3	8.0	—	26.7	—16.1	9.0	—	—	26.41	—	1.51	17 Nov	183	132	29	54	4	0	14	—	90	137	—	3.78	—	
Wellesbourne			9 9	153	12.0	4.3	8.1	—	27.8	—17.8	—	—	—	20.50	82	0.81	17 Nov	173	115	—	1	4	8	17	90	—	3	3.64	—		
Moreton Morrell			9 9	280	11.9	4.3	8.1	—	27.8	—17.8	—	—	—	22.53	—	0.99	10 Nov	182	131	34	58	3	0	13	22	84	—	6	3.73	—	
Rugby			9 9	385	11.7	4.4	8.1	—1.2	26.7	—15.6	—	9.1	21.14	—	0.83	29 Mar	163	110	39	62	2	1	4	14	87	—	0	—	—	—	
Oxford			9 9	208	12.3	5.4	8.9	—1.2	27.2	—14.4	9.5	9.8	25.10	98	1.24	17 Nov	196	123	36	62	0	1	9	20	73	102	0	(3.76)	(91)	—	
Grendon Underwood			9 9	220	12.4	3.7	8.1	—	27.2	—17.2	(8.9)	(9.8)	—	—	—	—	—	30	84	0	0	3	—	90	—	0	3.76	—	—	—	
Buckingham			9 9	98	12.7	3.5	8.1	—	27.2	—17.8	—	—	—	27.83	—	1.07	30 June	184	131	—	—	—	—	—	—	—	—	—	—	—	
Aylesbury			9 9	316	11.8	4.2	8.0	—	27.2	—16.7	—	—	—	25.65	99	8.12	12 June	161	122	36	57	3	5	13	47	88	120	0	3.85	—	
Stafford			9 9	587	10.9	4.5	7.7	—	25.0	—13.3	8.0	8.4	23.26	74	0.95	25 Nov	183	130	36	46	6	1	11	30	82	105	0	3.51	—	—	
Oaken			9 9	409	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Stone			9 9	350	11.5	4.1	7.8	—	26.1	—17.8	—	—	—	22.36	—	0.84	25 Nov	179	123	16	47	1	1	4	29	84	142	0	3.42	—	
Penkridge			9 9	330	11.5	4.0	7.7	—	26.7	—15.0	—	—	—	23.48	—	1.25	2 July	166	120	16	63	0	0	4	15	90	125	1	—	—	—
Onecote			9 9	1350	8.6	3.1	5.9	—	22.8	—11.1	6.5	7.1	36.82	—	1.25	6 July	183	169	18	68	0	0	5	71	100	115	0	3.14	—	—	
Shropshire			9 9	570	11.1	4.5	7.8	—	25.0	—11.7	—	—	—	27.50	—	1.20	17 Nov	181	144	24	63	3	0	4	14	74	122	0	3.53	—	—
Church Stretton			—	582	—	—	—	—	—	—	—	—	—	28.25	80	0.75	29 Mar	199	154	—	—	—	—	—	—	—	—	—	—	—	—
Shrewsbury			9 9	184	12.1	4.7	8.4	—1.3	26.7	—17.2	9.8	10.6	20.84	81	0.88	25 Nov	196	130	30	53	2	11	10	29	81	—	3	3.61	97	—	
Shawbury			12-9	235	11.8	4.2	8.0	—	26.8	—18.2	—	—	—	20.26	78	0.93	25 Nov	173	112	38	46	6	16	10	21	83	134	2	3.94	—	
Bridgnorth			—	245	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Worcester			9 9	211	11.7	3.7	7.7	—1.3	26.1	—17.8	—	—	—	19.98	77	0.88	31 Oct	172	110	32	52	8	9	13	12	92	135	7	3.22	87	—
Malvern			9 9	203	12.3	5.4	8.9	—	27.2	—13.3	9.7	9.6	25.05	85	0.98	17 Nov	205	126	32	51	0	0	12	44	78	93	0	3.69	89	—	
Worcester			9 9	190	—	4.8	—	—	27.2	—14.4	—	—	—	(20.78)	(85)	0.82	17 Nov	160	116	—	49	—	—	—	—	30	78	118	—	—	—
Pershore Inst. of Hort.			9 9	130	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Pershore			21-9	114	12.3	4.8	8.5	—	27.4	—16.6	—	—	—	20.82	—	1.24	3 Jan	164	114	40	48	1	14	14	23	84	110	1	3.93	—	
Halesowen			9 9	505	11.5	4.1	7.8	—	26.1	—13.9	9.2	9.1	25.41	—	0.69	5 July	177	136	30	56	0	4	7	9	90	117	0	3.67	—	—	
Hereford			9 9	510	11.4	4.3	7.9	—	25.0	—15.6	—	—	—	29.86	—	0.91	18 Nov	199	145	—	—	—	—	—	—	83	136	—	—	—	—
Ross-on-Wye			21-9	223	12.0	5.2	8.6	—1.4	26.6	—17.5	9.6	10.0	26.76	96	1.43	17 Nov	167	131	26	53	2	2	10	19	72	115	1	3.57	89	—	
Gloucester			9 9	274	11.8	4.0	7.9	—	26.1	—17.8	—	—	—	21.87	—	0.66	18 Nov	187	126	22	49	0	4	4	21	84	142	2	—	—	—
Filton			21-9	192	12.0	5.6	8.8	—	26.5	—14.3	—	—	—	31.67	103	1.09	17 Nov	191	134	31	46	3	2	10	15	73	107	1	3.43	—	
Hempsted			9 9	39	12.3	5.2	8.7	—	27.2	—15.6	10.0	10.1	23.61	—	1.51	17 Nov	183	124	27	45	2	1	14	53	73	90	7	3.57	—	—	
Gloucester			21-9	79	12.6	5.8	9.2	—	28.3	—14.8	—	—	—	23.92	—	1.35	17 Nov	175	119	33	43	8	9	13	28	71	100	0	3.78	—	
Cheltenham			9 9	214	12.2	5.4	8.8	—1.3	26.7	—13.3	—	—	—	24.86	95	1.53	17 Nov	190	133	—	—	—	—	—	—	73	—	—	—	—	
Cirencester			9 9	443	11.5	4.4	7.9	—	26.1	—14.4	—	—	—	31.16	93	1.51	17 Nov	181	143	24	63	1	1	8	35	85	—	—	3.66	—	
Little Rissington			21-9	740	10.7	4.6	7.7	—	25.5	—15.0	—	—	—	27.06	89	1.60	17 Nov	172	124	42	62	6	2								



TABLE III (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE AND OF WEATHER OBSERVATIONS. YEAR 1963

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation	Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)				WEATHER Number of days										BRIGHT SUNSHINE	
				Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum		TEMPERATURE		Total Fall	Percentage of Average	Most in a day		Precip'n		Snow or Sleet	Snow lying at Sh.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at Sh.	Air Frost	Grass min. 0°C or less	Gale	Daily Mean	Percentage of Average	
				A	B			Maximum	Minimum	ft.	in.			Amount	Date	-01 in (0·3 mm.) or more	+04 in (1·0 mm.) or more												
				Max.	Min.			°C	°C	°C	°C			°C	°C	in.	%												in.
5 ENGLAND, S.E.-contd.		G.M.T.	ft.	°C	°C	°C	°C	°C	°C	°C	°C	in.	%	in.											hr.	%			
Berkshire-contd.Finchamstead		9 9	212	12·4	4·3	8·3	—	27·8	-15·0	9·5	—	25·26	—	1·19	17 Nov	192	131	28	54	3	2	9	16	86	133	0	3·74	—	
Hurley		9 9	140	12·5	4·6	8·5	—	27·2	-15·0	(9·1)	—	(28·31)	—	0·93	17 Nov	(183)	(132)	28	46	3	3	16	11	83	108	0	3·83	—	
Bracknell		9 9	243	12·3	(5·1)	(8·7)	—	28·3	-14·4	9·8	10·1	26·09	—	1·00	17 Nov	169	123	43	52	4	22	10	36	78	100	2	—	—	
Bournemouth		9 9	130	11·9	5·9	8·9	-1·6	26·1	-11·1	9·6	9·9	35·21	113	1·58	3 Aug	180	130	24	45	1	7	7	22	78	95	2	4·32	91	
Hurn		21-9	33	12·3	5·1	8·7	—	26·6	-13·4	—	—	36·35	119	1·88	1 Sept	169	129	27	38	7	4	10	11	88	112	1	—	—	
Christchurch		9 9	9	12·3	5·5	8·9	—	26·1	-11·7	—	—	32·93	—	1·75	1 Sept	160	131	16	30	1	0	4	19	82	116	4	—	—	
Everton		9 9	51	12·0	5·7	8·9	—	26·7	-11·1	—	—	31·59	—	1·10	3 Aug	172	128	26	40	0	5	11	12	78	103	1	4·42	—	
Southampton		9 9	65	13·3	6·0	9·7	-1·0	27·2	-10·6	10·4	10·9	30·67	97	1·18	17 Nov	177	123	31	41	1	7	11	22	88	99	0	4·02	90	
Leckford		9 9	385	11·8	4·6	8·2	—	27·2	-13·9	9·2	—	32·97	104	1·10	17 Nov	166	139	—	40	—	—	—	—	—	—	—	—	—	
Winchester		9 9	122	12·6	4·5	8·5	—	27·8	-14·4	—	—	(31·32)	98	1·41	1 Sept	(169)	(124)	25	37	1	7	—	—	—	—	—	—	—	
Martyr Worthy		9 9	275	12·4	4·4	8·4	—	27·8	-12·8	—	—	31·40	—	1·71	1 Sept	186	133	22	46	0	0	10	4	82	112	1	3·76	—	
Southsea		9 9	7	—	7·0	—	—	—	-8·3	10·4	10·6	27·07	97	0·90	17 Nov	162	120	22	34	0	4	8	4	82	112	2	4·50	94	
Hayling Island		9 9	13	11·8	6·4	9·1	—	26·7	-9·4	—	—	25·76	—	0·85	15 Apr	167	110	19	40	1	0	8	3	77	—	—	—	—	
Long Sutton		9 9	512	—	—	—	—	—	-15·0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Alice Holt Lodge		9 9	378	11·8	4·6	8·2	—	26·7	-13·3	—	—	30·49	98	1·12	17 Nov	178	129	24	58	2	2	12	15	86	120	1	3·66	—	
S. Farnborough		21-9	226	12·4	5·1	8·7	-1·4	26·1	-14·2	—	—	24·99	93	0·93	1 Sept	183	119	36	52	4	7	11	24	79	101	0	3·55	85	
St. Catherine's Pt.		9 9	51	11·4	6·9	9·1	-1·4	25·3	-8·0	—	—	34·68	117	1·76	3 Aug	158	134	26	—	3	1	10	15	59	—	27	—	—	
Ventnor Park		9 9	443	11·6	6·6	9·1	-1·7	25·0	-8·9	10·1	10·4	37·29	115	1·28	3 Aug	183	149	16	18	0	0	4	19	56	74	5	4·57	91	
Shanklin		9 9	180	11·6	6·3	8·9	—	25·0	-8·9	—	—	38·87	—	1·29	18 Nov	178	137	27	9	4	0	9	64	87	—	4	4·90	—	
Sandown		9 9	13	12·3	6·9	9·6	-1·3	27·2	-7·8	—	—	32·28	106	1·05	18 Nov	164	129	20	17	1	0	5	12	52	—	10	4·67	92	
Ryde		9 9	15	12·3	6·9	9·6	-1·4	25·6	-8·3	—	—	32·08	107	0·97	18 Nov	173	133	25	18	2	0	9	5	65	—	19	4·49	93	
Lacock		9 9	160	11·9	0	7·9	—	25·9	-15·6	—	—	(25·57)	—	1·02	17 Nov	(196)	(133)	—	52	—	—	—	23	86	125	—	—	—	
West Lavington		9 9	305	11·8	4·4	8·1	—	27·2	-14·4	—	—	26·70	88	1·16	17 Nov	192	144	28	43	3	0	5	23	83	—	12	—	—	
Lynham		21-9	476	11·1	4·8	7·9	—	25·9	-14·8	—	—	27·92	97	1·05	17 Nov	179	125	38	54	4	4	14	29	82	114	0	—	—	
Chiseldon		9 9	510	11·6	4·1	7·9	—	26·7	-16·7	—	—	29·74	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Larkhill		9 9	431	11·7	4·4	8·1	-1·3	26·5	-12·4	—	—	28·65	101	1·09	13 June	189	142	52	65	5	8	11	24	85	108	11	—	—	
Boscombe Down		21 9	414	11·7	4·7	8·2	-1·4	26·7	-12·4	—	—	27·72	97	1·55	13 June	182	130	34	—	3	7	6	17	86	115	3	—	—	
Upavon		21 9	578	(11·1)	4·6	(7·9)	—	26·6	-12·9	—	—	27·29	—	1·11	17 Nov	181	132	41	58	2	6	5	21	85	119	2	3·89	91	
Porton		9 9	364	12·0	4·0	8·0	-1·4	27·1	-13·3	8·5	—	31·25	106	1·89	13 June	171	131	31	54	0	10	4	18	91	115	3	3·79	86	
7a ENGLAND, N. W.																													
Cumberland		9 9	43	11·5	5·8	8·7	—	25·0	-7·2	—	—	36·50	84	1·71	25 Sept	200	164	—	3	—	—	—	12	60	98	—	4·10	—	
Sellafield		21-9	86	11·5	4·7	8·1	—	25·7	-11·6	—	—	32·46	—	1·05	25 Sept	206	152	39	19	8	9	8	3	81	107	1	3·98	—	
Carlisle		9 9	360	(10·9)	—	—	—	25·6	-11·7	(7·6)	—	32·36	93	1·30	12 Nov	213	146	—	62	—	—	—	6	—	129	—	(3·91)	(110)	
Newton Rigg		9 9	900	9·4	2·9	6·1	—	24·4	-12·2	6·6	7·1	50·70	—	1·45	25 Sept	243	169	50	71	16	11	7	29	96	125	15	3·57	—	
Spadeadam		9 9	151	11·6	4·5	8·1	—	26·7	-11·7	—	—	72·45	97	2·53	25 Sept	216	192	29	32	3	0	5	3	66	—	0	3·34	102	
Ambleside		21-9	2780	4·9	—	—	—	22·0	-12·2	—	—	—	—	—	—	—	—	—	—	—	—	—	244	—	—	—	2·33	—	
Great Dun Fell		9 9	1825	7·2	1·0	4·1	—	22·2	-15·6	5·6	—	74·39	—	1·81	17 Nov	266	219	—	98	—	—	—	50	131	179	—	—	—	
Moor House		9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Barrow-in-Furness		21-9	33	11·8	5·3	8·5	—	26·9	-11·3	—	—	27·63	82	0·94	25 Sept	180	132	29	14	3	10	8	14	81	106	13	4·36	105	
Squires Gate		9 9	130	11·9	4·5	8·2	—	27·2	-10·0	—	—	38·75	—	1·51	25 Sept	202	158	21	29	3	2	8	47	78	—	—	—	—	
Southport		9 9	18	11·6	4·7	8·1	—	26·7	-11·7	8·8	9·6	28·81	—	1·12	25 Sept	170	130	—	—	—	—	—	15	76	98	—	4·21	—	
Poulton-le-Fylde		9 9	38	(11·9	5·3	8·6)	—	26·7	-10·6	—	—	30·25	—	1·05	25 Sept	194	144	20	33	2	1	3	6	71	—	8	—	—	
Grizedale		9 9	300	—	3·1	—	—	25·7	-12·2	7·8	—	71·40	—	2·97	25 Sept	211	195	22	61	1	3	5	17	95	155	1	—	—	
Speke		21-9	80	12·0	6·0	9·0	—	27·2	-10·7	—	—	26·77	88	0·90	25 Sept	176	123	34	40	9	5	13	24	67	83	10	3·63	—	
Kirkham		9 9	78	11·7	—	—	—	26·7	-10·6	—	—	31·26	84	1·13	25 Sept	178	134	21	37	3	4	7	—	—	126	0	—	—	
Garstang		9 9	68	11·6	5·0	8·3	—	25·6	-12·8	—	—	32·39	—	1·17	14 Nov	179	135	—	18	—	—	—	—	—	—	—	—	—	
Morecambe		9 9	24	11·5	5·9	8·7	-1·0	26·1	-8·9	—	—	36·11	94	1·29	8 Sept	203	152	7	20	—	—	—	—	—	—	—	—	—	
Preston		9 9	108	11·8	5·1	8·5	—	26·7	-12·2	—	—	33·78	86	1·13	25 Sept	194	147	31	18	3	6	8	26	73	109	0	—	—	
Bolton		9 9	352	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Darwen		9 9	377	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Stonyhurst		9 9	324	11·2	4·6	7·9	-1·1	26·7	-10·6	—	—	38·03	80	1·35	25 Sept	191	158	—	64	—	—	—	20	79	100	—	3·54	98	
Manchester W/Centre		9 9	854	10·1	4·2	7·1	—	25·0	-10·6	7·7	—	50·31	83	1·81	25 Sept	202	161	—	64	—	—	—	28	83	113	—	3·37	—	
Heilmshore		9 9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Manchester (Smokeless Zone)		9 9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Burnley		9 9	655	—	4·1	—	—	—	-11·1	—	—	39·24	—	1·80	25 Sept	195	167	—	—	—	—	—	2	82	125	—	—	—	
Nelson		9 9	540	10·5	—	—	—	26·7	-12·2	—	8·2	(38·42)	86)	1·28	25 Sept	(205)	(163)												



TABLE III (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE AND OF WEATHER OBSERVATIONS, YEAR 1963

DISTRICT, COUNTY AND PLACE			Terminal Hours of Observation		Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES CELSIUS								EARTH TEMPERATURE		RAINFALL (Terminal hour 9 G.M.T.)						WEATHER Number of days										BRIGHT SUNSHINE																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						Means of		Mean Temperature Mean of A and B	Difference from Average	Highest Maximum and Lowest Minimum		Total Fall	Per-centage of Aver-age			Most in a day		Precip'n		Snow or Sleet	Snow lying at 9h.	Hail*	Ice or snow pellets etc.†	Thunder heard	Fog at 9h.	Air Frost	Grass min. 0°C or less	Gale	Daily Mean	Percentage of Average																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
						A Max.	B Min.			Maximum	Minimum					Amount	Date	-0.1 in.(0.2 mm.) or more	-0.4 in.(1.0 mm.) or more																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
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8a	SOUTH WALES—cont.		G.M.T.	ft.	°C	°C	°C	°C	°C	°C	°C	°C	in.	%	in.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						</



TABLE IV—SUMMARY OF OBSERVATIONS OF PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, VISIBILITY AND WIND AT FIXED HOURS AT CERTAIN STATIONS DURING THE YEAR: 1963

DISTRICT, COUNTY AND PLACE	Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		MEAN TEMPERATURE AND HUMIDITY				CLOUD-AMOUNT (OKTAS)					VISIBILITY							WIND, NUMBER OF OBSERVATIONS																										
			At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	Mean Amount	NO. OF OBSERVATIONS					NUMBER OF OBSERVATIONS							FORCE (0-12)					DIRECTION																				
										0	1	2	3 to 7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,090 yd.	1,100-2,130 yd.	2,200-4,300 yd.	3-8 mi.	7-12 mi.	13-24 mi.	25 mi. or over	8 or more	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.								
																											Speed in knots																				
																											0	1	2	3	4																
0 SCOTLAND, N.																																															
Zetland	Lerwick Observatory	H	3	273	1011-1	-1.5	7.0	1.1	8.7	85	6.4	2	29	60	129	135	10	0	6	4	2	1	15	82	106	89	5	49	168	135	8	51	46	25	41	79	38	50	27								
			15	273	1011-2	-	7.7	1.3	8.9	82	6.3	2	21	60	153	121	4	0	4	3	2	4	9	64	84	103	92	6	58	162	133	6	40	45	26	41	81	46	47	31							
			21	273	1011-4	-	6.5	0.9	8.7	87	5.9	3	57	62	88	143	12	1	10	2	5	2	8	70	82	100	85	9	38	143	166	9	50	36	19	37	80	49	49	36							
Orkney	Kirkwall	H	3	86	1011-1	-	6.3	0.7	8.8	89	5.5	18	60	58	90	133	6	0	3	3	2	4	5	71	60	170	47	3	35	153	154	30	29	30	39	51	78	45	58	25							
			15	86	1011-2	-	7.6	1.1	9.1	84	6.2	4	36	52	135	131	7	0	1	1	4	3	4	77	49	127	99	3	43	172	139	8	39	32	44	47	76	40	57	22							
			21	86	1011-4	-	8.5	1.5	9.2	80	6.2	5	37	46	156	119	2	0	0	1	1	0	7	63	59	118	116	3	53	181	123	5	38	41	45	46	67	33	67	23							
Caithness	Wick	H	3	121	1011-1	-0.8	6.8	0.9	8.9	87	5.7	8	70	48	106	130	3	0	2	1	1	4	6	58	58	156	79	2	38	146	161	18	30	22	44	55	69	32	66	29							
			15	121	1011-2	-	6.1	0.8	8.4	88	5.4	22	61	58	119	96	12	0	1	11	5	4	7	65	48	113	111	0	30	137	171	27	19	16	35	58	62	39	55	34							
			21	121	1011-4	-	7.4	1.1	9.0	84	5.9	6	44	51	159	91	4	0	0	3	3	1	11	79	51	113	104	3	35	163	153	12	39	16	42	60	66	25	69	36							
Sutherland	Cape Wrath	H	3	121	1011-1	-	8.5	1.5	9.2	80	6.1	6	40	48	173	94	4	0	0	3	1	1	8	68	67	102	115	2	41	171	142	9	35	25	41	68	71	22	53	43							
			15	121	1011-2	-	6.7	0.9	8.8	87	5.3	12	61	54	118	96	4	0	3	1	0	2	11	68	55	105	120	0	22	138	185	20	25	13	38	67	75	32	52	43							
			21	121	1011-4	-	7.2	1.1	8.7	83	5.8	17	40	71	80	141	16	6	4	2	5	2	3	21	45	42	235	21	41	80	210	13	27	22	84	22	90	43	47	17							
Ross & Cromarty	Stornoway	H	3	371	1010-8	-	7.6	1.2	8.9	83	5.4	5	26	50	137	120	27	9	10	5	3	2	1	34	38	36	227	22	37	60	212	14	32	17	86	17	90	58	31	20							
			15	371	1010-9	-	8.3	1.4	9.1	81	6.2	1	22	66	156	99	21	4	10	2	5	0	4	35	46	45	214	18	34	107	189	17	30	22	80	17	73	69	39	18							
			21	371	1010-2	-	7.4	1.1	8.9	84	6.0	11	31	70	117	115	21	5	13	0	3	0	1	31	29	52	231	26	31	96	196	16	24	33	82	14	81	50	43	22							
Inverness	Benbecula	H	3	16	1010-7	-0.9	8.0	1.1	9.4	85	5.9	8	51	44	159	101	2	0	0	0	2	1	0	58	99	144	59	3	37	127	170	28	29	21	55	31	80	38	38	45							
			15	16	1010-9	-	9.3	1.6	9.6	79	5.7	6	51	63	157	88	0	0	0	1	2	2	41	70	126	123	2	46	192	117	8	26	46	44	30	93	38	42	38								
			21	16	1011-2	-	7.4	0.9	9.3	87	4.7	26	91	67	84	95	2	0	0	2	1	0	0	45	106	129	82	6	21	149	166	23	29	28	62	26	81	52	29	35							
1 SCOTLAND, E.	Moray	Kinloss	3	19	1011-6	-	7.8	1.6	8.7	79	6.1	4	36	53	183	89	0	0	1	3	5	8	11	66	66	127	75	2	12	97	234	20	12	15	64	21	87	126	41	9							
			15	19	1011-4	-	9.8	2.3	9.0	72	6.0	3	41	53	187	79	2	0	2	0	0	1	9	62	58	95	138	0	23	165	175	2	43	37	62	14	41	68	68	30							
			21	19	1012-0	-	7.1	1.3	8.7	82	5.7	13	47	54	147	101	3	0	1	3	3	0	18	84	67	104	85	0	8	111	233	13	19	23	76	19	82	99	36	18							
Aberdeen	Dyce	H	3	193	1012-2	-0.7	5.3	0.7	8.3	88	5.5	34	49	52	95	125	10	0	2	6	5	15	33	96	94	76	37	0	8	70	199	88	27	10	20	34	63	32	40	51							
			15	193	1012-2	-	7.3	1.3	8.8	81	6.0	7	47	49	148	108	6	0	2	1	5	6	45	98	86	69	53	0	12	102	211	40	36	13	23	40	75	33	35	70							
			21	193	1012-5	-	9.0	1.9	9.0	76	5.8	10	42	61	155	93	4	0	0	3	2	6	35	107	86	45	1	5	124	215	20	31	10	46	53	88	27	27	63								
Fife	Leuchars	H	3	108	1011-7	-	6.3	0.6	8.6	87	5.2	11	47	112	124	54	17	0	14	2	3	2	4	77	250	13	0	0	57	142	147	19	40	6	32	22	118	23	71	14							
			15	108	1011-7	-	7.5	1.2	9.0	83	5.6	6	35	87	188	41	8	0	3	0	5	1	5	77	177	97	0	2	54	178	121	10	47	11	56	18	106	23	75	19							
			21	108	1011-9	-	8.7	1.6	9.2	79	5.5	9	26	113	166	46	5	0	3	1	2	0	7	73	180	99	0	2	58	181	116	8	57	11	59	39	94	14	59	24							
Midlothian	Turnhouse	H	3	38	1011-9	-	7.0	1.0	8.9	85	5.2	18	42	95	143	57	10	0	7	1	2	3	8	67	256	21	0	1	47	157	144	16	48	7	55	23	107	23	67	19							
			15	38	1012-0	-	5.7	0.7	8.5	88	5.2	41	57	48	86	129	4	0	5	2	6	11	28	80	78	108	47	0	16	98	202	49	27	35	40	24	13	87	77	13							
			21	38	1012-4	-	7.6	1.3	9.1	82	6.0	7	46	46	139	124	3	0	4	0	6	13	25	63	67	96	91	1	30	142	167	25	22	30	51	22	23	76	92	24							
Argyll	Tiree	H	3	38	1011-6	-	9.6	2.0	9.4	75	6.0	8	46	41	167	99	4	0	1	2	5	5	15	72	61	107	97	0	38	177	140	10	23	32	78	32	19	65	82	24							
			15	38	1012-0	-	8.9	0.9	8.4	86	5.3	22	74	49	101	112	6	0	3	3	6	9	22	93	72	89	68	0	24	116	194	31	22	41	53	25	20	83	77	13							







TABLE IV (continued)—SUMMARY OF OBSERVATIONS OF PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, VISIBILITY AND WIND AT  
FIXED HOURS AT CERTAIN STATIONS DURING THE YEAR 1962

DISTRICT, COUNTY AND PLACE		Hour of Observation	Height of Barometer above Mean Sea Level	MEAN PRESSURE		TEMPERATURE AND HUMIDITY		CLOUD-AMOUNT (OKTAS)					VISIBILITY					WIND, NUMBER OF OBSERVATIONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
				At Mean Sea Level	Difference from Average	Dry Bulb	Depression of Wet Bulb	Vapour Pressure	Relative Humidity	NO. OF OBSERVATIONS					NUMBER OF OBSERVATIONS					FORCE (0-12)					DIRECTION																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
										Mean Amount	0	1	2	3	4	5	6	7	8	9	0-44 yd.	45-210 yd.	220-430 yd.	440-1,000 yd.	1,100-2,100 yd.	2,200-4,300 yd.	3-6 mi.	7-12 mi.	13-24 mi.	25 mi. or over	Beaufort Force					N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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5 ENGLAND, S.E.—contd.			G.M.T.	ft.	mb.	°C	°C	mb.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
Kent	Deal	H	3	34	1015.0	—	—	—	—	5.9	23	39	49	105	142	7	0	2	1	10	16	56	141	121	18	0	1	18	143	184	19	37	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	



TABLE V [FIRST PUBLISHED 1913]—WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT IN THE YEAR 1963 AT EACH STATION

*DISTRICT AND PLACE		WARMEST				COLDEST				*DISTRICT AND PLACE		WARMEST				COLDEST			
		DAY		NIGHT		DAY		NIGHT				DAY		NIGHT		DAY		NIGHT	
		Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date				Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date	
0	SCOTLAND, N. Hamnavoe	Aug. 1	20.6	July 31	13.3	Jan. 11 Dec. 20	1.1	Jan. 1, 12 Dec. 19,	-2.2	Leuchars	July 30	25.6	July 22	14.5	Jan. 17	-2.9	Feb. 26	-10.1	
	Lenwick Obs'y.	Aug. 2	19.6	Aug. 1	13.2	Jan. 7 Dec. 18	-1.1	Jan. 12	-6.7	St. Andrews	July 30	25.0	July 22	15.0	Jan. 12	-0.6	Feb. 3	-11.1	
	Baltsound	Aug. 1	21.1	July 31 Aug. 6	12.2	Jan. 5 Dec. 20	0.0	Jan. 1	-6.1	Balerno	July 30	23.9	Aug. 2	13.9	Jan. 12	-3.9	Jan. 17	-13.9	
	Sule Skerry	July 30	20.5	July 30, 31	13.0	Jan. 6, 10	2.5	Feb. 2	-1.5	Turnhouse	July 30	26.1	Aug. 2	15.4	Jan. 17	-3.6	Feb. 3	-14.1	
	Stenness	July 30	21.7	July 31 Aug. 2	12.2	Jan. 17	0.6	Jan. 12	-12.8	E. Craigs	July 30	25.6	Aug. 2	15.6	Jan. 22	-1.1	Feb. 3	-11.7	
	Costa	July 30	22.2	Sept. 23	12.8	Jan. 16, 17	1.1	Jan. 17, 18	-4.4	Davidson's Mains	July 30	26.7	Aug. 2	15.6	Jan. 12	-2.8	Jan. 13	-9.4	
	Kirkwall (Grimsetter)	July 28	20.3	Aug. 2	13.0	Jan. 17	0.3	Jan. 11 Feb. 2	-3.9	Penicuik	July 30	25.6	July 22	13.9	Jan. 12	-4.4	Jan. 17	-14.4	
	Dounreay	July 30	26.1	July 30	13.9	Jan. 17	-2.2	Jan. 12	-10.0	Bush House	July 30	24.4	Aug. 2	15.0	Jan. 12	-3.3	Jan. 12	-12.8	
	Wick	July 21, 30	19.0	July 31	12.5	Jan. 11	-2.6	Jan. 18	-9.2	Edinburgh—Blackford Hill	July 30	25.6	Aug. 2	16.1	Jan. 17	-2.8	Jan. 17, 23	-6.7	
	Cape Wrath	June 1	25.0	July 30	16.0	Jan. 17	0.0	Feb. 17	-5.2	Liberton	July 30	26.7	Aug. 2	(15.6)	Jan. 11, 12	-1.1	Feb. 3	-11.7	
	Achanay	July 30	26.1	Sept. 23	13.3	Jan. 17	-10.0	Jan. 11	-19.4	Royal Botanic Gardens	July 30	25.6	Aug. 2	15.6	Jan. 12	-1.1	Feb. 19	-10.6	
	Strathly	July 30	26.7	July 31	12.8	Jan. 17	-3.3	Jan. 12	-12.8	Haddington	July 30	25.6	July 22	15.6	Jan. 12	-4.4	Jan. 13	-16.7	
	Stornoway	July 30	21.4	July 30	13.7	Jan. 17	1.5	Jan. 12	-7.2	North Berwick	July 30	26.1	Aug. 2	15.0	Jan. 12	-2.2	Jan. 17	-7.2	
	Balmacara	June 1	27.2	July 30	14.4	Jan. 17	0.0	Jan. 13, 18	-6.7	Dunbar	July 30	26.1	July 22	15.0	Jan. 12	-2.2	Feb. 25	-8.2	
	Poolewe	June 1	26.7	July 30	16.1	Jan. 17	-0.6	Jan. 7	-6.7	St. Abb's Head Stanhope Farm	June 8	25.0	July 22	12.8	Jan. 12	-8.9	Jan. 12, 13	-15.0	
	Inverpolly	July 30	26.7	Sept. 23	13.9	Jan. 17	-1.1	Jan. 18	-11.7	Blythe Bridge	July 30	23.3	Aug. 2	14.4	Jan. 12	-6.1	Jan. 13	-16.1	
	Achnashellach	July 1	26.7	Aug. 2, 3, 4, 5	12.8	Jan. 17	-3.9	Jan. 13, 18	-10.6	West Linton	June 11	23.9	Aug. 2	13.9	Jan. 12	-7.2	Jan. 13	-21.1	
	Kinlochewe	July 30	27.8	July 28	14.4	Jan. 17	-5.6	Jan. 11, 12	-11.1	Glenstress	July 30	25.0	July 24	13.9	Jan. 12	-5.0	Jan. 13	-17.8	
	Fortrose	July 30	24.4	July 31	15.6	Jan. 17	(-3.9)	Jan. 18	-7.2	Bowhill	July 30, 31	24.4	July 24	13.9	Jan. 22	-3.3	Feb. 26	-17.2	
	Tarbatness	July 28	27.0	July 31	14.0	Jan. 11	-2.0	Jan. 18	-8.0	Wauchope	July 30	25.6	July 24	12.8	Jan. 12	-2.2	Jan. 13, 17	-16.7	
	Isle of Rhum	June 1	24.4	July 30	14.2	Jan. 17	1.6	Feb. 18	-8.2	Sourhope	July 30	26.7	July 22, 31	13.3	Jan. 12	-2.2	Jan. 13	-10.0	
	Prabost	June 1	25.6	July 30	15.6	Jan. 12	-0.6	Jan. 13	-7.8	6a. SCOTLAND, W. Three Rhuvaa	June 6	21.2	July 30	13.2	Feb. 6	1.0	Jan. 18	-5.4	
	Duntulm	June 1	25.6	July 30	13.9	Jan. 17	-1.1	Jan. 18	-6.7	Colonsay	June 11	22.9	June 1	14.0	Feb. 6	-0.4	Feb. 18	-3.6	
	Onich	June 1	25.9	July 30	16.1	Jan. 17	-0.1	Jan. 13	-8.9	Campbeltown	June 9	22.9	July 31	12.8	Jan. 13	0.0	Jan. 13	-8.9	
	Fort William	June 1, 9	26.1	Aug. 4, 5	13.9	Jan. 17	-1.7	Jan. 13	-11.7	Achnaglachach	June 8	23.9	July 30, 31	13.3	Jan. 22	2.2	Jan. 12	-7.2	
	Cannich	June 1	26.1	Aug. 4	13.9	Jan. 17	-10.0	Jan. 18, 19	-18.3	Lephimore	June 9, 10	25.6	Aug. 4, 5	13.3	Feb. 5	0.6	Jan. 14	-10.0	
	Inverness	July 30	26.7	July 31	14.4	Jan. 17	-3.9	Jan. 11, 18, 19	-7.8	Glenbranter	Aug. 1	24.4	Aug. 5	13.9	Jan. 17	0.0	Jan. 13	-7.2	
	Achnagoichan	June 11	25.0	Aug. 2	13.9	Jan. 17	-8.9	Jan. 7	-16.1	Benmore Forestry Sch.	June 9, 11	25.0	Aug. 5	13.9	Jan. 12	-2.8	Jan. 23	-11.1	
	Glenmore Lodge	July 30	24.5	Sept. 17	13.4	Jan. 17	-6.0	Jan. 18	-18.2	Younger Bot. Gardens	June 1, 4, 9, 11	23.9	Aug. 4	13.9	Dec. 19	-0.6	Jan. 12, 13	-9.4	
1	SCOTLAND, E. Nairn	July 30	27.2	Aug. 4 Sept. 23	13.3	Jan. 11	-3.9	Jan. 18	-12.2	Rothsay	June 5	25.6	Aug. 4	15.0	Jan. 17, 22	0.6	Jan. 13	-5.0	
	Forres	July 30	26.7	Aug. 2 Sept. 17	14.4	Jan. 17	-3.3	Jan. 18	-13.3	Millport	June 9	23.9	Aug. 4	15.0	Feb. 5	1.1	Jan. 18, 19	-3.9	
	Kinloss	July 30	27.1	Aug. 2	14.1	Jan. 17	-4.3	Jan. 18	-12.2	Helensburgh	June 11	24.4	Aug. 2, 5	14.4	Jan. 12	-1.7	Jan. 13	-8.9	
	Elgin	July 30	27.8	Aug. 2	14.4	Jan. 17	-5.0	Jan. 18	-11.1	Cumbarnauld	July 30	26.1	Aug. 2	15.6	Jan. 12	-7.2	Jan. 13	-14.4	
	Lossiemouth	July 30	27.2	Aug. 2	13.3	Jan. 17	-3.9	Jan. 9, 13	-10.6	Earls Hill	June 11	23.0	Aug. 2	14.0	Jan. 17	-5.0	Jan. 16, 22, 23	-9.0	
	Gordon Castle	July 30	28.9	July 31	14.4	Jan. 17	-3.9	Jan. 10	-11.1	Stirling	June 11	26.7	Aug. 4	14.4	Jan. 12	-1.7	Jan. 13	-10.0	
	Banff	July 30	24.4	Sept. 16	13.9	Jan. 17	-1.7	Jan. 18	-9.4	Falkirk	July 30	26.1	Aug. 4, 5	13.3	Jan. 22	-1.1	Jan. 13	-10.6	
	Braemar	June 8, 11	23.9	Aug. 2	13.3	Jan. 12	-11.7	Jan. 18	-22.2	Greenock	June 9, 11	25.0	Aug. 2	16.1	Jan. 22	-1.7	Jan. 13	-6.7	
	Balmoral	June 8	23.9	Aug. 2	13.3	Jan. 12	-10.0	Jan. 18	-18.9	Paisley	June 11	25.6	Aug. 2	16.7	Jan. 12	-5.0	Jan. 13	-11.1	
	Dinnet	June 8	24.4	Aug. 2	14.4	Jan. 17	-7.2	Jan. 18	-16.7	Barr Head	June 11	24.4	Aug. 2	15.0	Jan. 12	-6.1	Jan. 13	-13.9	
	Fyvie Castle	July 30	23.9	Aug. 4	13.9	Jan. 8	-2.2	Jan. 9	-15.6	Renfrew	July 30	25.3	Aug. 2	16.4	Jan. 12	-6.1	Jan. 13	-13.8	
	Craibstone	July 30	21.1	Aug. 2	14.4	Jan. 17	-1.7	Jan. 23	-9.4	Crossmyloof	June 11	25.6	Aug. 2	16.7	Jan. 12	-5.6	Jan. 14	-11.7	
	Dyce	Aug. 1	22.2	Aug. 4	13.4	Jan. 17	-5.5	Jan. 17	-12.3	Thorntonhall	June 11	23.9	Aug. 2	15.0	Jan. 12	-3.3	Jan. 17	-10.0	
	Aberdeen	Aug. 1	21.1	July 22	13.3	Jan. 17	-1.7	Jan. 18	-10.6	Glasgow Springburn	July 30	25.6	Aug. 2	16.1	Jan. 12	-4.4	Jan. 13	-11.7	
	Hilton	Aug. 1	21.1	Aug. 2	13.9	Jan. 17	-2.2	Jan. 18, 19	-9.4	Coatbridge	June 11	25.6	Aug. 4	14.4	Jan. 12	-3.3	Jan. 13	-12.2	
	Udny	July 30	21.1	Aug. 4	12.8	Jan. 17	-3.9	Jan. 18	-10.0	Lowther Hill	June 8	22.0	Aug. 2	13.5	Jan. 21	-5.2	Feb. 2	-10.2	
	Raithay Head	July 21	20.0	Aug. 4 Sept. 1	12.6	Jan. 17	-1.5	Jan. 18	-5.1	Leadhills	June 8, 10	23.9	Aug. 4, 5	12.8	Jan. 12	-5.0	Jan. 18	-13.3	
	Fettercairn	July 30	21.1	July 22	13.3	Jan. 22	-1.7	Feb. 25	-10.6	Carnwath	July 30	23.3	Aug. 2	13.9	Jan. 12	-6.7	Jan. 12	-18.3	
	Strachan	June 8	23.9	Aug. 2, 4	13.9	Jan. 17	-5.6	Jan. 18	-17.8	Largs	—	—	July 30	15.0	—	—	Feb. 3, 4	-6.1	
	Muchalls	Aug. 1	20.6	Aug. 2, 4	13.3	Jan. 17	-2.8	Jan. 17, 18, Feb. 25	-6.7	Barr Auchincruive	July 31	26.1	June 1	15.6	—	—	—	—	
	Mylnfield	July 30, 31	25.6	July 22	14.4	Jan. 17	-2.8	Jan. 12, 13, 18	-9.4	Prethick Airport	June 9	24.4	Aug. 4	15.0	Jan. 12, 17	-1.1	Jan. 13	-9.4	
	Auchterhouse	Aug. 1, 2	23.9	Aug. 2	13.3	Jan. 17	-2.2	Feb. 26	-11.7	Kilmarnock	June 1	25.4	Aug. 4	15.1	Jan. 17	-0.3	Jan. 13	-10.6	
	Dundee	July 30	25.6	July 22	14.4	Jan. 17	-1.1	Jan. 13	-7.8	Dalmacallan	June 8, 9	25.0	Aug. 4	15.0	Jan. 17	-1.7	Jan. 13, 14	-8.9	
	Glamis Castle	June 11	25.0	Aug. 2	13.9	Jan. 17	-6.1	Jan. 18	-16.7	Dunfries	June 8, 9, 10	23.3	Aug. 5	13.9	Jan. 22	-2.8	Feb. 19	-11.1	
	Whitehills	June 11	23.3	July 22	13.3	Jan. 16	-2.2	Mar. 5	-12.8	Esksdalemuir Obs'y	June 8	24.4	Aug. 4	14.4	Jan. 22, 23	-1.1	Jan. 23	-10.0	
	Buddon Ness	July 30	21.1	Aug. 2	13.9	Jan. 12, 17	-1.1	Feb. 26	-15.0	Bargrennan	June 11	23.9	July 22	13.6	Jan. 22	-2.7	Jan. 13	-15.7	
	Carnoustie	July 30	20.0	July 22	14.4	Jan. 17	-0.6	Feb. 26	-7.8	Palnure	June 9	25.6	June 9	14.4	Jan. 22	-0.6	Feb. 2	-11.1	
	Arbroath	Aug. 2	19.4	Aug. 2	—	Jan. 12	-1.7	Feb. 26	-7.8	Glenlee	June 10, 11	25.0	June 13	12.8	Jan. 22	-1.1	Feb. 13, 20	-12.8	
	Montrose	July 19	22.2	July 22	14.4	Jan. 11, 17	-0.6	Feb. 24	-9.4	Dundeugh	Aug. 1	24.4	Aug. 4, 5	13.3	Jan. 22	-1.1	Feb. 13, 20	-13.9	
	Dall	Aug. 1, 2, 21	22.2	July 22	14.4	Jan. 11, 17	-0.6	Feb. 24	-9.4	Glenloch Barrage	June 9, 11	24.4	Aug. 4, 5	14.4	Feb. 2, 5	0.0	Jan. 23	-10.6	
	Strathyre	June 11	23.9	Aug. 5	13.3	Jan. 12	-7.2	Jan. 13	-15.0	Threave	June 9, 10, 11	24.4	Aug. 5	13.9	Jan. 12, 22	-0.6	Jan. 13	-11.7	
	Callander	July 30, 31	23.9	Aug. 4, 5 Sept. 1	13.9	Jan. 17	-3.3	Feb. 26	-14.4	Castle Douglas	June 9, 10	25.0	Aug. 25	14.4	Feb. 5	-0.6	Jan. 23	-11.1	
	Ardtalnaig	Aug. 1	25.0	Aug. 2	14.4	Jan. 17	-0.6	Jan. 23	-11.7	Pewwhirn	June 9	23.9	Aug. 4	13.9	Jan. 22	-1.7	Feb. 4	-10.6	
	Pitlochry	July 30	26.1	Aug. 5	14.4	Jan. 12	-6.7	Jan. 13	-11.1	Mull of Galloway	Aug. 2	22.1	Aug. 1	15.2	Jan. 17	-0.4	Feb. 3, 6, 7	-3.0	
	Faskall-	June 11	25.6	Aug. 2	15.0	Jan. 12	-6.1	Feb. 26	-13.3	6b. ISLE OF MAN Ronaldsway	June 9	23.3	Aug. 4	15.2	Jan. 20, 22	0.0	Jan. 13	-6.7	
	Dunning	June 11	24.4	Aug. 5	13.3	Jan. 12	-4.4	Jan. 13	-11.7	Douglas	June 9	23.3	Aug. 4	15.0	Jan. 12	-0.6	Jan. 13, 23	-3.9	
	Perth	July 30	26.1	Aug. 2	15.6	Jan. 12, 17	-3.9	Jan. 13	-14.4								Feb. 3		
	Inveralmond	June 11	26.1	Aug. 2	15.0	Jan. 17	-3.9	Jan. 13, 14	-16.1										
	Blairgowrie	June 11	25.0	Aug. 2	15.0	Jan. 17	-3.9	Feb. 26	-13.3										
	Glenshee Lodge	July 30	24.4	Aug. 2	13.3	Jan. 12	-2.8	Feb. 26	-18.3										
	Pitresvie	July 30	26.1	Aug. 2	15.6	Jan. 12	-2.0	Jan. 13	-9.5										
	Ballingry	July 30	23.9	Aug. 2	15.6	Jan. 11, 12, 22	-1.1	Feb. 25	-10.0										
	Kirkcaldy	July 30	24.4	Aug. 2	15.0	Jan. 17	-0.6</												

\* For Counties, terminal hours of observations and altitudes see Table III.



TABLE V (continued)—WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT IN THE YEAR 1963 AT EACH STATION

*DISTRICT AND PLACE		WARMEST				COLDEST				*DISTRICT AND PLACE		WARMEST				COLDEST			
		DAY		NIGHT		DAY		NIGHT				DAY		NIGHT		DAY		NIGHT	
		Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date				Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date	
6b	ISLE OF MAN - cont. Point of Ayre	July 30	21.8	Aug. 4	14.5	Jan. 23	0.1	Feb. 20	-5.9	3	ENGLAND, E. - cont. Shoeburyness Clacton Dovercourt	June 8 June 8 June 8	23.7 23.9 23.9	July 24 July 24 July 24, 30	16.5 17.2 17.2	Jan. 24 Jan. 24 Jan. 24	-4.4 -3.9 -2.2	Jan. 13 Jan. 13 Jan. 24	-10.5 -10.0 -11.1
2.	ENGLAND, N.E. Kielder Castle	July 30	25.0	July 24 Aug. 3, 4	12.8	Jan. 22	-5.6	Feb. 26	-18.3	4	MIDLAND COUNTIES								
	Bellingham	June 11	25.6	July 24	13.3	Jan. 16 Feb. 5	-2.2	Feb. 25	-11.7		Slaidburn Malham Tarn	July 30 June 11 July 30	26.1 22.8	July 22 July 22	15.0 13.9	Jan. 22 Jan. 21, 22 Feb. 2, 5	-3.9 -3.9	Jan. 23 Feb. 24, 25	-13.3 -9.4
	Corbridge	July 30	25.6	July 24	14.4	Jan. 12	-1.7	Feb. 25	-18.3		Huddersfield (Ravensknowle)	July 30 June 12	26.7 28.0	July 24 July 24	16.1 14.6	Jan. 22 Jan. 22	-3.9 -3.0	Jan. 23 Jan. 22	-13.3 -9.6
	Berwick-on-Tweed	July 21	22.2	July 22	14.4	Jan. 22	-0.6	Jan. 14	-11.7		Huddersfield (Oakes)	July 30	25.6	July 24	16.1	Jan. 22	-2.8	Jan. 23	-10.6
	Cockle Park	July 23	22.8	Aug. 6	15.0	Jan. 22	-2.2	Feb. 25	-12.8		Bradford	July 30	26.7	Aug. 3	15.0	Jan. 22	-3.9	Jan. 23	-12.8
	Acklington	July 23	21.6	Aug. 4	13.8	Dec. 24	-2.6	Feb. 24, 26	-12.3		Ilkley Sheffield	July 30 July 30	27.2	June 12 July 24	15.6	Jan. 11, 22 Feb. 2	-1.7	Jan. 23	-8.9
	Tynemouth	July 23	23.2	July, 15 Aug. 2	13.4	Jan. 13 Dec. 24	-1.8 -1.1	Feb. 25 Feb. 24	-7.4 -10.6		Wakefield	June 12	26.7	Aug. 3	15.0	Jan. 22	-5.6	Jan. 23	-15.0
	Chopwellwood	July 30	25.6	July 22, 24	13.9	Jan. 22 Feb. 2 Dec. 19	-1.1	Feb. 24	-10.6		Pontefract Bramham Cawood	July 30 July 30 July 30	25.6 26.1 26.1	July 24 Aug. 3 Jan. 17, 24	15.0 14.4 15.0	Jan. 22 Jan. 22 Jan. 23	-2.8 -5.6 -1.1	Jan. 23 Jan. 23 Jan. 23	-11.1 -13.9 -13.9
	Ushaw	July 30	25.6	July 16, 31 Aug. 2	12.8	Mar. 2, 4	-2.8	Feb. 25	-10.0		Askham Bryan	July 30	25.6	Aug. 4	14.4	Jan. 11 Feb. 2, 5	-1.1	Jan. 23	-12.8
	Houghall	July 30	25.6	July 24	15.0	Jan. 22	-2.2	Jan. 23, 24	-15.6		Buxton	June 11	24.5	July 15	15.0	Feb. 5	-4.4	Jan. 23	-14.4
	Durham	July 30	25.0	July 24	14.4	Jan. 22	-2.8	Jan. 23	-13.3		Chapel-en-le-Frith	July 30	25.6	July 24	15.0	Jan. 21, 22	-2.8	Jan. 25	-13.9
	Gateshead	July 30, 31	25.0	July 24	14.4	Jan. 22	-2.2	Feb. 25, 26	-7.8		Mackworth Belper	July 30 July 30	26.1 27.2	Aug. 3, 5 June 7, 25 Aug. 11	14.4 12.8	Jan. 24 Jan. 24	-6.1	Jan. 24	-16.1 -16.7
	Middleton St. George	July 30	26.2	July 24	15.2	Jan. 25	-3.8	Mar. 2	-11.6		Derby	July 30	27.2	July 24	16.7	Jan. 23	-3.3	Jan. 23	-14.4
	West Hartlepool	July 21	23.9	July 24	15.0	Jan. 22	-1.7	Feb. 25	-8.9		Morley	July 30	26.7	Aug. 5	14.4	Jan. 24	-6.1	Jan. 23	-13.3
	Dishforth	July 30	27.1	Aug. 3	14.5	Dec. 24	-3.0	Mar. 3	-11.4		Chesterfield	June 8, 12	25.6	July 24	15.6	Jan. 17, 20	-1.1	Jan. 22	-13.3
	Thirsk	July 30	26.1	July 24 Aug. 3, 4	14.4	Feb. 5, 25	-1.1	Feb. 25	-13.9		Sutton Bonington	July 30	26.7	July 24	16.1	Jan. 24	-5.6	Jan. 23	-15.0
	York	July 30	26.7	July 24	15.6	Jan. 24	-1.7	Jan. 25	-10.6		Watnall	July 30	27.5	July 24	15.5	Jan. 24	-6.3	Jan. 23	-13.3
	Ampleforth	June 12	24.4	Aug. 4	14.4	Jan. 22	-2.8	Jan. 23	-11.7		Mansfield	July 30	26.7	July 24	15.6	Jan. 24	-3.3	Jan. 22	-12.2
	Redcar	July 23, 30	25.0	July 24	15.0	Jan. 22	-0.6	Feb. 5	-8.3		Nottingham	July 30	27.2	July 24	16.1	Jan. 24	-5.6	Jan. 23	-12.8
	Whitby	July 23	23.9	July 24	15.0	Jan. 16, 22	0.0	Jan. 24	-8.3		Warsop	July 30	26.1	July 24	15.6	Jan. 16, 21, 22, 24	-1.7	Jan. 22	-18.3
	Scarborough	Sept. 17	23.9	July 20	14.4	Jan. 22	-0.6	Jan. 25	-7.2		Finningley	July 30	28.1	July 24	15.7	Feb. 4	-2.2	Jan. 23	-13.3
	Silpho Moor	June 12	23.3	July 24	13.9	Jan. 22, 24	-5.6	Jan. 24	-8.3		Newton Linford	July 30	27.2	July 24	15.6	Jan. 24	-5.6	Jan. 23	-16.1
	Whitby C/Guard	July 23	23.3	July 24	14.8	Dec. 24	-1.6	Jan. 24	-8.5		Bugbrooke Mills	July 30	27.8	July 24	15.6	Jan. 24	-5.6	Jan. 23	-15.0
	High Mowthorpe	June 12	23.9	July 24	14.4	Jan. 16, 21	-2.2	Feb. 5	-10.0		Caldecott	July 30	27.2	July 24	16.1	Jan. 22, 24	-4.4	Jan. 23	-17.2
						Feb. 2, 5, 19					Raunds	July 30	27.2	July 24	16.1	Jan. 24	-5.6	Jan. 23	-15.0
	Hull	June 12	26.7	July 24	16.7	Jan. 24	-0.6	Feb. 26	-10.0		Wittering	July 30	26.6	July 24	16.0	Jan. 24	-5.1	Jan. 23	-13.9
	Leconfield	June 12	25.3	July 24	15.6	Dec. 24	-3.1	Feb. 25	-14.0		Edgemarkton	July 30	27.0	July 24	15.3	Jan. 24	-5.0	Jan. 25	-10.6
	Filey	Sept. 17	22.8	July 24	15.6	Jan. 23, 24	-1.7	Jan. 23	-11.7		Luddington	July 30	27.2	July 24	16.1	Jan. 23	-6.7	Jan. 24	-16.1
	Bridlington	Sept. 17	22.8	July 24	14.4	Jan. 21, 23	-0.6	Feb. 25	-10.6		Straatford-on-Avon	July 30	27.8	July 24	16.1	Jan. 23	-6.1	Jan. 23	-16.1
	Spurn Head	July 15	24.0	July 24	15.7	Feb. 4	-1.6	Jan. 25	-7.1		Birmingham Airport	July 30	26.7	July 24	16.0	Jan. 24	-4.4	Jan. 23	-16.0
	Gainsborough	—	—	—	—	Jan. 12	-3.9	Jan. 23	-13.9		Shipton-on-Stour	July 30	26.7	July 22, 24	15.0	Jan. 24	-5.6	Jan. 23	-16.1
	Navenby	June 12	27.2	July 24	16.1	Jan. 24	-6.1	Jan. 23	-13.3		Wellesbourne	July 30	27.8	July 24	16.1	Jan. 23	-6.1	Jan. 23	-17.8
	Waddington	June 12	26.6	July 24	15.5	Jan. 24	-5.1	Feb. 5	-11.0		Moreton Morrell	July 30	27.8	June 22	17.2	Jan. 24	-5.6	Jan. 23	-17.8
	Lincoln	June 12	26.7	July 24	16.1	Jan. 24	-5.6	Jan. 22	-14.4		Rugby	July 30	26.7	July 24	15.0	Jan. 24	-4.4	Jan. 24	-15.6
	23, 30										Oxford	July 30	27.2	July 24	16.1	Jan. 23	-6.7	Jan. 23	-14.4
	Cranwell	July 22	26.5	July 24	15.7	Jan. 24	-5.1	Feb. 5	-12.3		Grendon Underwood	July 30	27.2	July 24	15.0	Jan. 24	-3.9	Jan. 23	-17.2
	Cleethorpes	July 24	25.6	July 24	16.1	Jan. 22	-1.1	Jan. 25	-8.3		Medmenham	July 30	27.2	July 24	15.6	Jan. 24	-5.6	Jan. 23	-17.8
	Manby	June 12	26.5	July 15, 24	15.2	Dec. 24	-2.7	Feb. 25	-10.8		Aylesbury	July 30	27.2	July 24	15.6	Jan. 24	-5.6	Jan. 23	-16.7
	Skegness	July 24	24.4	July 24	16.7	Jan. 23	-1.1	Jan. 23	-10.0		Keele	July 30	25.0	July 24	15.0	Jan. 24	-6.7	Jan. 13	-13.3
						24					Oaken	July 30, 31 Aug. 1	26.7	July 30	15.0	—	—	—	—
3	ENGLAND, E.										Stone	June 7	26.1	July 24	15.6	Jan. 12	-6.7	Jan. 12, 24	-17.8
	Terrington	July 30	26.7	July 24	16.1	Jan. 23	-6.1	Jan. 23	-14.4		Penkridge	July 30	26.7	Aug. 3	13.9	Jan. 12, 24	-5.0	Jan. 24	-15.0
	St. Clement	June 12	26.3	July 24	15.8	Jan. 23	-5.9	Jan. 23	-15.4		Onecote	July 30	22.8	July 23	13.9	Jan. 19, 21, 22	-5.6	Jan. 25	-11.1
	Marham	June 9	26.7	July 24	16.7	Jan. 24	-6.7	Jan. 23	-18.9		Oswestry	July 30	25.0	July 24	14.4	Jan. 18	-4.4	Jan. 13	-11.7
	Santon Downham	July 30	25.5	July 24	15.4	Jan. 25	-4.8	Jan. 24	-13.0		Shrewsbury	July 30	26.7	Aug. 5	15.0	Jan. 12	-5.0	Jan. 24	-17.2
	West Raynham	June 12	25.0	July 15, 24 Aug. 3, 4	14.4	Jan. 16	-1.7	Jan. 25	-12.2		Shawbury	July 30	26.8	July 24	16.0	Jan. 12, 23	-6.6	Jan. 23	-18.2
	Cromer	July 23	25.0	July 15, 24 Aug. 3, 4	14.4	Jan. 16	-1.7	Jan. 25	-12.2		Newport	June 8	26.1	July 24	15.6	Jan. 12	-6.1	Jan. 9, 23	-17.8
	Sprowston	July 23	25.6	July 15, 24 Aug. 4	15.6	Jan. 24	-2.2	Feb. 5	-15.0		Malvern	July 30	27.2	July 24	15.6	Jan. 23	-8.3	Jan. 23	-13.3
	Burlingham	June 12	25.6	July 15 Aug. 4	15.6	Jan. 16	-2.2	Jan. 25, 26	-10.6		Worcester	July 30	27.2	July 23	17.8	Jan. 23	-6.7	Jan. 24	-14.4
								Feb. 5			Pershore (Institute of Horticulture)	July 30	26.7	Aug. 3	15.0				



TABLE V (continued)—WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT IN THE YEAR 1963 AT EACH STATION

5	ENGLAND, S.E.—cont.	WARMEST				COLDEST				5	ENGLAND, S.E.—cont.	WARMEST				COLDEST			
		DAY		NIGHT		DAY		NIGHT				DAY		NIGHT		DAY		NIGHT	
		Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date				Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date	
	Southgate	July 23, 30	26.7	July 24 Aug. 8	15.6	—	—	—	°C		Ryde	July 22	25.6	Aug. 2	17.2	Jan. 12, 22 Feb. 2	-1.7	Jan. 25	-8.3
	Wisley	July 30	28.9	July 24 Aug. 8	15.6	Jan. 23	-4.4	Jan. 13	-13.9		Lacock	July 30	27.8	July 20, 24	15.0	Jan. 23, 25	-6.7	Jan. 23	-15.6
	Mickleham	July 30	28.3	July 20, 24 Aug. 8	15.0	Jan. 23	-4.4	Jan. 23	-15.6		West Lovington	July 30	27.2	July 21	15.0	Jan. 25	-6.1	Jan. 23, 24	-14.4
	Kew Observatory	July 23	26.8	July 24	16.8	Jan. 24	-2.8	Jan. 25	-9.7		Lyneham	July 30	25.9	July 24	14.7	Jan. 24	-6.6	Jan. 23	-14.8
	Gatwick	July 30	27.7	Aug. 8	15.2	Jan. 13	-3.9	Jan. 23	-16.7		Cheseldon	July 30	26.7	July 24	15.6	Jan. 24	-6.1	Jan. 23	-16.7
	Waddon	July 30	27.2	July 20, 24 Aug. 3	15.6	Jan. 12	-5.0	Jan. 23	-13.9		Larkhill	July 30	26.5	Aug. 2	14.6	Jan. 12	-5.1	Jan. 25, 26	-12.4
	Addington	July 30	26.7	July 20, 24 Aug. 8	15.0	Jan. 24	-4.4	Jan. 13	-10.0		Boscombe Down	July 30	26.7	Aug. 2	15.1	Jan. 12	-5.0	Jan. 25	-12.4
	Bromley	July 23	26.7	July 20 Aug. 8	16.1	Jan. 24	-3.9	Jan. 23	-12.2		Upavon	July 30	26.6	Aug. 2	14.7	Jan. 25	-5.4	Jan. 25	-12.9
	Swanley	July 22	27.2	July 20, 24 Aug. 8	15.6	Jan. 24	-3.9	Jan. 23	-13.9		Porton	July 30	27.1	July 24	14.1	Jan. 12	-5.1	Jan. 25	-13.3
	Dartford	July 23	27.2	July 20, 24 Aug. 8	16.1	Jan. 24	-4.4	Jan. 13, 23	-13.3	7a	ENGLAND N.W. Sellafield	June 8	25.0	June 1 Aug. 3	16.7	Feb. 5	0.6	Jan. 23	-7.2
	Tunbridge Wells	July 30	26.7	Aug. 3	15.0	Jan. 13, 24	-3.9	Jan. 13	-15.0		Carlisle	July 31	25.7	July 22	14.6	Jan. 13	-4.0	Jan. 13	-11.6
	Goudhurst	May 31	26.7	Aug. 3, 8	15.0	Jan. 13	-3.3	Jan. 23	-13.9		Newton Rigg	June 8	25.6	—	—	Feb. 5	-1.7	Jan. 13	-11.7
	East Malling	July 23, 30	26.1	July 20, 24 Aug. 8	15.6	Jan. 24	-3.9	Jan. 23	-13.9		Spadeadam	Aug. 2	24.4	July 22	13.3	Feb. 2	-3.9	Jan. 13	-12.2
	Gillingham	July 23	27.2	July 22	17.8	Jan. 24	-3.9	Jan. 23, 24	-11.7		Ambleside	July 30	26.7	Aug. 3	15.6	Jan. 24	-3.3	Jan. 23	-11.7
	Sittingbourne	July 23	24.4	July 24	15.6	Jan. 17, 24	-2.8	Jan. 22	-13.9		Great Dun Fell	July 30	20.0	Aug. 3	11.2	Jan. 21	-8.0	—	—
	Isle of Grain	July 23	25.6	July 24 Aug. 3, 8	16.7	Jan. 24	-4.4	Jan. 13, 25	-8.3		Moor House	July 30	22.2	July 22	12.8	Jan. 21	-6.1	Feb. 24	-15.6
	Faversham	July 23	26.1	July 24 Aug. 3	15.6	Jan. 24	-3.3	Jan. 22	-13.9		Squires Gate	June 9	26.9	July 24	15.6	Jan. 13	-1.4	Jan. 24	-11.3
	Dungeness	June 8	22.1	Aug. 3	16.5	Jan. 13	-3.0	Jan. 13, 23	-8.9		Urawick	July 30	27.2	July 30	16.7	Jan. 23	-1.1	Jan. 23	-10.0
	Wye	July 23	25.6	Aug. 3	16.1	Jan. 24, 25	-2.8	Jan. 24	-11.1		Southport	July 30	26.7	July 22	15.0	Jan. 23	-2.2	Jan. 24	-11.7
	Whitstable	July 23	24.4	Aug. 3	17.2	Jan. 24	-2.8	Jan. 23	-11.1		Poulton-Le-Fylde	June 9	26.7	Aug. 3	16.7	Jan. 21, 22	-0.6	Jan. 12, 24	-10.6
	Folkestone	July 22	25.6	Aug. 2, 3	16.7	Jan. 17	-2.8	Jan. 13	-7.2		Grizedale	July 30	25.6	Aug. 3, 4	14.4	—	—	Feb. 20	-12.2
	Elmstone	Sept. 17	25.0	Aug. 3	16.1	Jan. 17	-2.2	Feb. 5	-13.9		Speke	July 30	27.2	July 22	16.0	Jan. 13	-3.6	Jan. 24	-10.7
	Herne Bay	July 23	25.0	Aug. 3	17.2	Jan. 17, 24	-2.2	Jan. 24	-8.9		Kirkham	July 30	26.7	—	—	Jan. 13, 22	-1.1	Jan. 13	-10.6
	Dover	July 22	25.6	Aug. 2, 3	17.2	Jan. 17	-2.2	Jan. 13, 14	-7.2		Garstang	July 30	25.6	July 31	16.1	Jan. 22	-1.7	Jan. 23	-12.8
	Deal	Sept. 17	24.2	—	—	Jan. 22	-2.0	Jan. 23	-8.0		Morecombe	July 30	26.1	Aug. 3	16.7	Jan. 24	-2.2	Jan. 23	-8.9
	Manston	Sept. 17	24.4	Aug. 3	16.2	Jan. 25	-4.0	Feb. 5	-11.6		Preston	July 30	26.7	July 24	16.1	Jan. 21, 22 Feb. 2	-1.1	Feb. 2	-12.2
	Ramsgate	Sept. 17	23.3	July 30 Aug. 3	16.7	Jan. 17, 24	-2.2	Jan. 13, 20, 26	-5.6		Stonyhurst	July 30	26.7	July 22, 24 Aug. 3	15.0	Jan. 22	-2.2	Jan. 12	-10.6
	Margate	June 12	22.8	Aug. 3	16.7	Jan. 17	-2.2	Jan. 23	-6.7		Helmshore	July 30	25.0	July 22	15.0	Jan. 22	-3.0	Jan. 24	-10.6
	Thorney Island	May 31	26.9	Aug. 2	16.9	Jan. 13	-3.0	Jan. 13	-9.1		Burnley	—	—	—	Jan. 21, 22	-3.9	Jan. 12, 24	-11.1	
	Bognor Regis	July 22	26.1	Aug. 2, 3	16.1	Jan. 12, 17	-2.2	Jan. 13	-9.4		Nelson	July 30	26.7	July 22	15.6	Jan. 11, 12	-2.8	Jan. 12	-12.2
	Fernhurst	July 30	27.2	Aug. 8	15.6	Jan. 24	-3.9	Jan. 23	-16.1		Rochdale	July 30	26.1	July 24	15.6	Jan. 24	-4.4	Jan. 23, 24	-12.2
	Littlehampton	July 22	28.9	July 24 Aug. 2	15.6	—	—	Jan. 13	-11.7		Bidston	July 30	26.7	July 1	16.7	Jan. 24	-3.9	Jan. 23, 25	-8.3
	Rustington	July 22	26.1	Aug. 2	16.7	Jan. 12	-2.8	Feb. 4	-10.0		Winnington	June 9, 11	27.2	July 22	16.7	Jan. 24	-4.4	Jan. 24	-12.2
	Worthing	July 22	26.7	Aug. 2	17.2	Jan. 12	-2.2	Jan. 13, 14	-8.9		Knutsford	July 30	27.2	July 24	15.0	Jan. 12	-6.1	Jan. 24	-13.3
	Brighton	May 31	25.6	July 22	17.2	Jan. 12, 17, 21, 24	-1.7	Jan. 13	-8.3		Ringway	July 30	26.9	July 24 Aug. 3	15.6	Jan. 12	-6.2	Jan. 12	-10.3
	Seaford	June 1, July 22	25.0	Aug. 2, 3	16.1	Jan. 17, 18	-2.8	Jan. 23, 26	-8.3		Macclesfield	July 30	27.2	July 24	16.1	Jan. 12	-4.4	Jan. 25	-10.6
	Eastbourne	July 22	25.0	Aug. 3	16.7	Jan. 24	-2.2	Jan. 23	-7.8	7b	NORTH WALES Rhyll	July 30	27.2	July 22, 24 Aug. 3	15.6	Jan. 11	-3.3	Jan. 25	-11.7
	Eastbourne C/Guard	July 22	25.5	July 23	16.3	Jan. 13	-3.5	Jan. 13	-8.3		Prestatyn	—	—	—	—	Jan. 11	-2.2	Jan. 23, 24, 25	-12.2
	Bexhill	May 31	25.6	Aug. 3	16.7	Jan. 12, 17, 18, 24	-2.2	Jan. 14, 23, 26	-7.8		Hawarden Bridge	July 30	26.7	July 22, 24 Aug. 3	15.6	Jan. 24	-5.6	Jan. 12	-14.4
	Bodiam	July 30	26.7	Aug. 3	16.1	Jan. 13, 17	-3.3	Jan. 23	-15.6		Valley	May 31	25.1	Aug. 3, 4	14.4	Jan. 17	-0.2	Jan. 23	-8.0
	Hastings	May 31	26.1	Aug. 3	16.7	Jan. 17, 18, 21, 24	-2.2	Jan. 13, 14	-7.2		Alwen	July 30	24.4	July 24	13.3	Jan. 21	-4.4	Jan. 23, 24	-16.1
	Letcombe Regis	July 30	26.7	July 24	15.0	Jan. 24	-6.1	Jan. 22, 23	-16.7		Ruthin	June 11	25.6	June 1 July 16, 22	12.8	Jan. 12, 21, 22	-2.2	Jan. 12, 13	-13.9
	Abingdon	July 30	28.0	July 24	15.8	Jan. 23	-7.0	Jan. 23	-15.7		Loggerheads	July 30	25.6	July 22, 24	15.0	Jan. 22	-3.9	Jan. 12	-18.3
	Compton	—	—	—	—	Jan. 24	-6.7	Jan. 23	-16.1		Bwlchgwyn	June 9, 11	23.9	July 24	13.3	Jan. 21	-6.1	Jan. 12	-11.7
	Wallingford	July 30	27.8	July 24	15.0	Jan. 23	-7.8	Jan. 23	-16.1		Wrexham	July 30	26.7	July 22	15.6	Jan. 22	-3.9	Jan. 12	-15.0
	Shinfield	July 30	28.3	July 24	15.0	Jan. 24	-5.6	Jan. 23	-14.4		Bardsey Island	July 30	22.4	Aug. 2	15.2	Feb. 2	-0.6	Feb. 2	-4.9
	Reading	July 30	28.3	July 24	15.6	Jan. 24	-5.6	Jan. 23	-12.8		Botwnnog	June 9, 10	25.6	June 1 Aug. 3	15.6	Jan. 17	-0.6	Jan. 12	-8.3
	Reading S.T.G.	July 30	28.3	July 24	15.6	Jan. 24	-5.6	Jan. 23	-13.9		Bryn Adda	July 30	25.0	Aug. 3, 4	15.0	Feb. 2	-1.1	Jan. 12	-6.7
	Finchampstead	July 30	27.8	July 24	15.0	Jan. 24	-5.6	Jan. 23	-15.0		Cwm Dylli	July 30	25.6	Aug. 4	15.0	Jan. 21	-2.2	Feb. 25	-12.2
	Hurley	July 30	27.2	July 24	15.6	Jan. 24	-5.6	Jan. 23	-15.0		Aber	June 11	25.6	June 1 July 22 Aug. 4	15.0	Jan. 17	-0.6	Jan. 23, 24	-6.7
	Bracknell	July 30	28.3	June 1 July 24 Aug. 30	15.6	Jan. 24	-3.9	Jan. 23	-14.4		Llandudno	May 31	25.0	Aug. 3	16.1	Jan. 17, 21	-1.1	Jan. 12, 13	-8.3
	Bournemouth	June 10	26.1	Aug. 2	16.1	Jan. 12	-3.9	Jan. 25, 26	-11.1		Llyn Stwlan	June 9, 10, 12, 14	21.7	July 30	14.1	—	—	—	—
	Hurn	May 31	26.6	Aug. 3	15.2	Jan. 12	-4.6	Jan. 23	-13.4										



TABLE V (continued) - WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT IN THE YEAR 1963 AT EACH STATION

*DISTRICT AND PLACE	WARMEST				COLDEST				*DISTRICT AND PLACE	WARMEST				COLDEST			
	DAY		NIGHT		DAY		NIGHT			DAY		NIGHT		DAY		NIGHT	
	Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date			Highest Maximum and date		Highest Minimum and date		Lowest Maximum and date		Lowest Minimum and date	
8a SOUTH WALES-cont..		°C		°C		°C		°C	8b ENGLAND, S.W.-cont.		°C		°C		°C		°C
Llwynon	June 8, 11	24.4	June 1	14.4	Jan. 24	-3.9	Jan. 25	-15.0	Rosewarne	July 30	25.0	Aug 2	15.0	Jan 11, 19	-1.7	Jan 14, 19, 20	-6.1
Mumbles	July 29	23.9	Aug. 2	17.3	Jan. 25	-3.2	Jan. 25	-6.0	Lizard	July 22	22.4	Aug 5	14.8	Jan 19	0.0	Jan 20, 21	-5.0
Swansea	June 1, 9	26.1	July 22	17.2	Jan. 24	-1.7	Jan. 13	-7.2	Falmouth	July 22	22.2	Aug 1, 2, 4	15.0	Jan 11	-0.6	Jan 14, 15, 19, 20	-5.6
Port Talbot	—	—	June 1	18.3	Jan. 24	-1.7	Jan. 13	-10.6	Newquay	July 30	25.6	Aug 2	15.6	Jan 11	-3.3	Jan 14	-7.2
Neath	June 1, 2, 9, July 30	26.1	June 1	16.7	Jan. 17	-2.2	Jan. 13, 25	-8.3	St. Mawgan	July 30	24.5	Aug 1	15.2	Jan 20	-2.0	Jan 12	-7.8
Rhoose	July 30	26.0	July 22	15.6	Jan. 25	-5.2	Jan. 12	-9.7	St. Austell	June 10	26.1	June 9	15.6	Jan 11	-2.2	Jan 13, 20	-7.2
Cardiff	July 30	26.7	July 22	16.1	Jan. 24	-4.4	Jan. 26	-10.0	Fowey	June 1	24.4	Aug 2	16.7	Jan 11	-1.7	Jan 14, 20	-6.1
Tredeggar	June 8, July 30	24.4	Aug. 3	14.4	Jan. 17	-5.0	Jan. 23	-12.2	Bude	July 30	26.7	Aug 4	15.6	Jan 11	-1.7	Jan 14	-10.6
Newport	July 30	26.7	Aug. 3	15.6	Jan. 24	-4.4	Jan. 14	-11.7	Elitridge	—	—	July 22	16.1	Jan 11	-2.2	Jan 13, 25	-8.9
Usk	July 30	26.7	Aug. 5	17.8	Jan. 24	-4.4	Feb. 4	-12.8									
Crumblant	July 30	24.4	July 22	15.6	Jan. 12	-6.1	Jan. 25	-11.1									
8b ENGLAND, S. W. Iawkrige	—	—	—	—	Jan. 11	-5.6	Jan. 17, 18, 20, 22, 25	-8.9	NORTHERN IRELAND								
Loughmore Forest	June 9, 11	25.0	July 31	13.3	Jan 20, 21	-0.6	Jan 13	-12.8	Ballykelly	July 30	25.8	Aug 7	15.4	Jan 13	0.5	Jan 13	-10.3
Derrynoyd Forest	June 11	25.6	July 31	13.3	Jan 12, 20	0.0	Jan 13	-8.9	Somerset Forest	June 9, 10	25.6	June 12	13.3	Jan 23	-1.1	Jan 13	-10.0
Garvagh Forest	June 11	25.6	July 31	13.9	Jan 17, 21, 22, 23	0.0	Jan 24	-9.4	Moneydig	June 11	25.6	July 31	14.0	Jan 23	-2.2	Jan 13	-11.7
Aldergrove	June 11	25.0	Aug 7	14.1	Jan 13	-3.5	Jan 23	-10.6	Ballypatrick Forest	July 30	23.9	June 12, July 19, 30, Sept 23	12.2	Jan 21	-0.6	Jan 13	-7.2
Larne	June 1, 11	23.3	Sept 16	13.3	Jan 20, 22, 23, Feb 5	1.1	Jan 23	-6.7	Newry Abbey	June 1, 8, 9	23.9	July 22, Aug 7, June 12	13.9	Jan 12	-2.8	Jan 13	-12.2
Hillsborough	June 11	23.3	Aug 4	12.8	Jan 12	-1.1	Jan 13	-7.8	Kilkeel	Aug 3	20.8	June 12	14.1	Feb 2	1.4	Jan 24	-4.6
Tollymore Park	June 11	23.9	July 22, Aug 4	13.9	Feb 2	0.0	Jan 12, 13	-6.7	Stormont Castle	June 11	22.8	June 9	14.4	Jan 22, Feb 2	0.6	Jan 12, 13, 14	-5.0
Crossgar	June 9	21.7	Sept 16	13.9	Jan 13	0.6	Jan 24	-9.4	Creighton's Green	June 11	22.8	June 12	13.9	Jan 22	-0.6	Jan 23	-5.6
Ballyhalbert	July 30	21.1	July 15, Aug 7	12.8	Jan 23	0.0	Jan 23	-5.0	Armagh	June 11	25.9	July 21	13.9	Jan 12	-0.6	Jan 24	-11.1
Loughall	June 11	25.0	July 19, 21, 22, Aug 2, 5, 7, Sept 23	13.3	Jan 12	-0.6	Jan 24	-15.0	Lough Bradan	June 9	23.9	July 31	12.8	Jan 22	-1.1	Jan 13	-9.4
Baronscourt Forest	June 9, 10	25.0	July 21	14.4	Jan 12	-2.2	Jan 13	-13.9	Lislap Forest	July 30	24.4	June 9	15.0	Jan 21	-1.1	Jan 13	-8.3
Knockmany Forest	July 30, 31	24.4	July 31	13.3	Jan 12	0.0	Jan 24	-13.9	Pomeroy Forest	June 11	23.9	Aug 7	13.3	Dec 20	-1.1	Jan 12, 14, 23	-6.7
Cookstown	July 30	24.4	Aug 7	13.3	Jan 23	-1.1	Jan 24	-12.8	Roscor	June 10	25.0	July 21	13.3	Jan 17	0.0	Jan 22	-7.8
Lough Navar Forest	June 1	26.1	July 21	13.9	Jan 22	-0.6	Jan 13, 24	-9.4	Ely Lodge	June 10	25.0	Aug 7	15.0	Jan 12	-1.1	Jan 13, 24	-9.4
Pubble Forest	July 30	25.6	July 21, 31	13.9	Jan 23, 24	0.0	Jan 24	-13.3									
CHANNEL ISLANDS									Guernsey	July 30	25.2	June 1	16.5	Jan 19	-1.7	Jan 20	-7.8
Alderney	July 30	22.2	July 23, Aug 1, 2, 3	14.4	Jan 19	-1.7	Jan 20	-8.9	Jersey Airport	July 30	27.0	Aug 1	16.7	Jan 19	-4.2	Jan 20	-10.9
Jersey St. Helier	July 30	28.3	Aug 1, 2	17.2	Jan 19	-3.9	Jan 20	-8.3									

TABLE VI - MONTHLY FREQUENCIES OF sunshine for twenty stations:-  
Number of days in each month of 1963 on which the DURATION OF SUNSHINE was:-  
(i) nil (ii) 3 hrs. or less (iii) more than 3 hrs. but not more than 6 hrs.  
(iv) between 6 and 9 hrs. (v) more than 9 hrs.

STATION	JANUARY					FEBRUARY					MARCH					APRIL					MAY					JUNE				
	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hr.	6.1 - 9.0 hr.	> 9.0 hr.	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hr.	6.1 - 9.0 hr.	> 9.0 hr.	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hr.	6.1 - 9.0 hr.	> 9.0 hr.	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hr.	6.1 - 9.0 hr.	> 9.0 hr.	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hrs	6.1 - 9.0 hr.	> 9.0 hr.	Sunless	0.1 - 3.0 hr.	3.1 - 6.0 hrs	6.1 - 9.0 hr.	> 9.0 hr.
Lerwick Observatory	14	13	4	0	0	5	11	7	5	0	13	7	4	6	1	8	11	5	3	3	2	7	10	7	5	8	7	4	0	11
Stornoway	12	9	8	2	0	6	11	7	4	0	7	6	9	9	0	2	6	5	10	7	2	7	4	8	10	5	7	6	5	7
Craibstone	10	14	6	1	0	7	9	5	6	1	10	11	1	8	1	3	10	5	8	4	3	6	9	5	8	5	7	4	9	5
Rothsay	11	5	10	5	0	5	3	13	7	0	7	10	7	6	1	3	12	7	3	5	3	6	6	6	10	5	5	8	4	8
Renfrew	12	13	6	0	0	8	6	10	4	0	6	11	10	4	0	4	9	9	6	2	2	8	2	8	11	5	5	7	7	6
Eskdalemuir Observatory	10	8	12	1	0	8	3	10	5	2	8	14	3	3	3	4	12	6	6	2	7	4	5	7	8	3	14	3	3	7
Douglas	7	12	10	2	0	8	3	7	10	0	6	5	13	5	2	6	7	6	5	6	2	8	3	6	12	4	6	6	5	9
Cockle Park	10	12	8	1	0	11	10	3	4	0	7	9	8	7	0	7	8	4	8	3	2	6	7	7	9	6	10	6	2	6
Gorleston	12	11	7	1	0	10	6	8	1	3	4	11	9	5	2	6	6	5	7	6	3	7	5	6	10	2	7	5	9	7
Cambridge (N.I.A.B.)	11	11	6	3	0	12	6	6	3	1	6	10	9	5	1	5	11	3	5	6	2	5	6	13	5	3	8	4	5	10
Birmingham	16	3	7	5	0	11	9	3	4	1	11	9	7	4	0	5	12	5	6	2	1	6	13	5	6	1	7	4	7	11
Kew Observatory	13	10	6	2	0	9	9	5	4	1	4	13	7	4	3	3	11	4	8	4	2	6	4	9	10	2	8	5	4	11
Hastings	14	5	7	5	0	7	7	6	5	3	3	12	9	3	4	6	9	3	8	4	4	4	3	6	14	3	7	6	2	12
Southampton	13	6	6	6	0	10	5	8	2	3	5	9	11	3	3	2	13	7	3	5	4	4	4	8	11	3	11	0	6	10
Stonyhurst	11	7	11	2	0	7	9	4	7	1	8	12	5	4	2	8	7	7	6	2	1	11	3	7	9	3	9	5	5	8
Bidston Observatory	13	7	8	3	0	10	4	7	7	0	4	13	5	9	0	6	6	8	9	1	2	4	8	6	11	3	8	4	5	10
Holyhead (Valley)	9	6	11	5	0	5	6	8	8	4	4	9	7	9	2	6	10	3	5	6	1	6	8	6	10	1	9	4	5	11
Falmouth	14	7	5	5	0	8	8	6	6	0	9	9	3	6	4	7	4	7	6	6	2	4	4	13	8	5	5	6	3	11
Aldergrove	10	14	6	1	0	9	6	6	7	0	4	10	9	8	0	2	8	11	5	4	2	10	4	7	8	2	9	6	4	9
Armagh	11	12	5	3	0	8	9	7	4	0	3	11	8	8	1	3	8	9	8	2	1	5	11	8	6	3	8	7	4	



TABLE VI -contd.-MONTHLY FREQUENCIES of sunshine for twenty stations: -  
Number of days in each month of 1963 on which the DURATION OF SUNSHINE was:-  
(i) nil (ii) 3 hrs. or less (iii) more than 3 hrs. but not more than 6 hrs.  
(iv) between 6 and 9 hrs. (v) more than 9 hrs.

STATION	JULY				AUGUST				SEPTEMBER				OCTOBER				NOVEMBER				DECEMBER									
	Sunless	0-1 - 3-0 hr.	3-1 - 6-0 hr.	6-1 - 9-0 hr.	> 9-0 hr.	Sunless	0-1 - 3-0 hr.	3-1 - 6-0 hr.	6-1 - 9-0 hr.	> 9-0 hr.	Sunless	0-1 - 3-0 hr.	3-1 - 6-0 hr.	6-1 - 9-0 hr.	> 9-0 hr.	Sunless	0-1 - 3-0 hr.	3-1 - 6-0 hr.	6-1 - 9-0 hr.	> 9-0 hr.	Sunless	0-1 - 3-0 hr.	3-1 - 6-0 hr.	6-1 - 9-0 hr.	> 9-0 hr.					
Lerwick Observatory	5	6	5	7	8	7	10	6	0	8	8	9	7	5	1	11	14	6	0	0	20	8	2	0	0	15	15	1	0	0
Stornoway	2	8	6	7	8	6	12	5	4	4	8	8	9	4	1	6	16	5	4	0	10	14	4	2	0	12	16	3	0	0
Craibstone	6	5	6	8	6	7	11	9	2	2	5	6	7	7	5	4	11	10	6	0	18	5	5	2	0	12	13	6	0	0
Rothsay	2	11	4	5	9	5	10	9	5	2	3	8	8	9	2	12	9	8	2	0	9	14	4	3	0	18	9	4	0	0
Renfrew	3	13	3	4	8	3	17	5	4	2	2	11	7	8	2	9	12	5	5	0	14	12	3	1	0	19	8	4	0	0
Eskdalemuir Observatory	4	11	4	5	7	3	18	3	5	2	3	14	6	7	0	7	14	5	5	0	12	12	4	2	0	12	13	5	1	0
Douglas	4	8	6	3	10	2	6	13	7	3	3	3	8	11	5	10	9	8	4	0	9	12	5	4	0	14	10	7	0	0
Cockle Park	7	13	2	2	7	9	9	8	4	1	4	5	6	10	5	3	14	7	6	1	19	4	4	3	0	11	15	5	0	0
Gorleston	1	5	7	8	10	3	11	9	5	3	4	9	5	5	7	9	9	6	7	0	6	13	9	2	0	10	12	9	0	0
Cambridge (N.I.A.B.)	2	11	6	4	8	5	9	9	6	2	5	8	6	7	4	8	10	8	4	1	7	13	8	2	0	15	6	10	0	0
Birmingham	0	11	11	1	8	4	9	12	3	3	2	14	2	7	5	9	11	7	4	0	6	18	4	2	0	16	9	6	0	0
Kew Observatory	1	5	11	5	9	3	7	11	6	4	5	10	4	6	5	9	8	8	4	2	7	12	10	1	0	17	6	7	1	0
Hastings	1	4	4	4	18	2	5	8	9	7	4	11	4	5	6	10	10	6	3	2	8	12	6	4	0	13	9	5	4	0
Southampton	1	8	7	5	10	4	6	9	8	4	5	10	4	5	6	11	12	3	3	2	9	12	7	2	0	13	7	11	0	0
Stonyhurst	3	11	4	5	8	5	12	5	8	1	3	10	9	3	5	7	12	11	1	0	10	16	4	0	0	8	17	4	2	0
Bidstone Observatory	2	8	7	4	10	2	11	8	5	5	5	7	4	6	8	3	15	7	5	1	6	18	5	1	0	10	14	5	2	0
Holyhead (Valley)	4	9	5	3	10	3	9	10	2	7	2	5	8	6	9	8	10	6	6	1	8	10	9	3	0	8	10	11	2	0
Falmouth	3	8	8	3	9	2	13	4	7	5	3	12	3	8	4	13	9	6	2	1	5	14	8	3	0	14	8	5	4	0
Aldergrove	2	11	8	4	6	1	15	12	2	1	3	10	7	10	0	8	10	9	4	0	7	14	8	1	0	12	13	5	1	0
Armagh	1	12	6	3	9	1	12	13	4	1	2	10	5	13	0	6	12	11	2	0	8	16	4	2	0	15	9	7	0	0

TABLE VII [First published 1914] Number of Days in 1963 with Rainfall between given limits.

STATION	0 in. 0-0.1 mm.	-0.1-0.4 in. 0.2-1.0 mm.	-0.5-2.0 in. 1.1-5.0 mm.	-2.1-4.0 in. 5.1-10.0 mm.	-4.1-6.0 in. 10.1-15.0 mm.	-6.1-8.0 in. 15.1-20.0 mm.	-8.1-10.0 in. 20.1-25.0 mm.	> 1.00 in. > 25.0 mm.	STATION	0 in. 0-0.1 mm.	-0.1-0.4 in. 0.2-1.0 mm.	-0.5-2.0 in. 1.1-5.0 mm.	-2.1-4.0 in. 5.1-10.0 mm.	-4.1-6.0 in. 10.1-15.0 mm.	-6.1-8.0 in. 15.1-20.0 mm.	-8.1-10.0 in. 20.1-25.0 mm.	> 1.00 in. > 25.0 mm.
	0 in. 0-0.1 mm.	-0.1-0.4 in. 0.2-1.0 mm.	-0.5-2.0 in. 1.1-5.0 mm.	-2.1-4.0 in. 5.1-10.0 mm.	-4.1-6.0 in. 10.1-15.0 mm.	-6.1-8.0 in. 15.1-20.0 mm.	-8.1-10.0 in. 20.1-25.0 mm.	> 1.00 in. > 25.0 mm.		0 in. 0-0.1 mm.	-0.1-0.4 in. 0.2-1.0 mm.	-0.5-2.0 in. 1.1-5.0 mm.	-2.1-4.0 in. 5.1-10.0 mm.	-4.1-6.0 in. 10.1-15.0 mm.	-6.1-8.0 in. 15.1-20.0 mm.	-8.1-10.0 in. 20.1-25.0 mm.	> 1.00 in. > 25.0 mm.
Lerwick Observatory	142	65	94	43	13	2	3	3	Shoeburyness	212	52	69	21	8	3	0	0
Stornoway	138	49	116	44	15	2	1	0	Birmingham	183	58	81	31	9	3	0	0
Fort William	158	51	87	39	18	4	6	2	Ross-on-Wye	198	37	85	31	10	3	0	0
Nairn	155	106	66	26	6	4	1	1	Kew Observatory	200	63	63	30	6	1	0	0
Craibstone	138	91	86	28	11	6	3	2	Hastings	198	55	55	39	10	5	3	0
Leuchars	177	54	85	28	13	3	4	1	Southampton	188	59	62	39	9	7	0	1
Rothsay	155	45	82	50	18	11	3	1	Moor House	99	59	96	43	33	15	5	15
Renfrew	171	51	86	36	14	4	1	2	Stonyhurst	174	38	89	37	16	9	0	2
Eskdalemuir Observatory	135	46	87	42	31	12	3	9	Bidstone Observatory	197	60	72	25	7	2	1	1
Douglas	179	47	70	38	16	7	4	4	Holyhead (Valley)	178	57	78	34	11	4	1	2
Cockle Park	148	68	104	27	11	3	1	3	Llandrindod Wells	175	39	87	49	8	3	2	2
Scarborough	174	54	106	19	8	1	1	2	Long Ashton	169	59	80	40	9	6	0	2
Cranwell	201	60	72	18	7	4	0	3	Falmouth	179	41	65	49	17	9	2	3
Gorleston	197	70	67	22	7	1	0	1	Aldergrove	166	51	93	40	10	2	2	1
Cambridge	191	65	83	17	5	2	1	1	Armagh	152	66	98	26	11	7	4	1

TABLE VIII [First published 1913] Number of Days in 1963 with MAXIMUM and MINIMUM temperatures between given limits

STATION	MAXIMUM TEMPERATURE °C										STATION	MINIMUM TEMPERATURE °C																				
	0-0° or less	0-1° to 5-0°	5-1° to 10-0°	10-1° to 15-0°	15-1° to 20-0°	20-1° to 25-0°	25-1° to 30-0°	Above 30-0°	-15-0° or less	-14-9° to -10-0°		-9-9° to -5-0°	-4-9° to 0-0°	0-1° to 5-0°	5-1° to 10-0°	10-1° to 15-0°	Above 15-0°	0-0° or less	0-1° to 5-0°	5-1° to 10-0°	10-1° to 15-0°	15-1° to 20-0°	20-1° to 25-0°	25-1° to 30-0°	Above 30-0°	-15-0° or less	-14-9° to -10°	-9-9° to -5-0°	-4-9° to 0-0°	0-1° to 5-0°	5-1° to 10-0°	10-1° to 15-0°
Lerwick Observatory	8	69	136	132	20	0	0	0	0	7	37	135	159	27	0	0	0	0	0	0	0	0	0	0	0	1	17	52	13	138	82	2
Stornoway	0	45	104	179	33	4	0	0	0	7	32	136	148	42	0	0	0	0	0	0	0	0	0	0	0	11	52	12	124	110	9	
Craibstone	9	83	80	122	68	3	0	0	0	10	70	126	134	25	0	0	0	0	0	0	0	0	0	0	0	14	72	96	124	2		
Rothsay	0	61	82	146	59	16	1	0	0	1	48	106	145	65	0	0	0	0	0	0	0	0	0	0	0	14	72	96	124	2		
Renfrew	3	63	70	92	115	21	1	0	0	3	23	44	93	134	67	1	0	0	0	0	0	0	0	0	0	2	54	59	117	110	2	
Eskdalemuir Observatory	27	61	83	112	69	13	0	0	1	10	27	60	119	125	23	0	0	0	0	0	0	0	0	0	0	2	59	85	140	56	0	
Douglas	2	62	90	129	71	11	0	0	0	0	0	46	94	156	59	0	0	0	0	0	0	0	0	0	0	0	23	50	66	131	101	2
Cockle Park	8	71	80	117	78	11	0	0	0	3	21	52	126	134	29	0	0	0	0	0	0	0	0	0	0	0	9	44	74	141	97	0
Gorleston	12	68	66	95	110	14	0	0	0	1	7	55	87	111	97	7	0	0	0	0	0	0	0	0	0	0	5	37	71	131	121	0
Cambridge	18	61	42	88	109	43	4	0	2	5	26	54	81	130	66	1	0	0	0	0	0	0	0	0	0	3	14	53	93	131	71	0
Edgbaston	29	54	57	96	98	30	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	17	52	13	138	82	2
Kew Observatory	15	55	48	100	102	38	7	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11	52	12	124	110	9	
Hastings	23	55	64	99	102	21	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	14	72	96	124	2		
Southampton	13	56	39	88	120	41	8	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	54	59	117	110	2	
Stonyhurst	14	61	70	118	78	22	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	59	85	140	56	0	
Bidston	10	64	63	125	80	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	23	50	66	131	101	2
Valley	2	48	76	129	95	14	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9	44	74	141	97	0
Falmouth	1	67	66	126	92	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	5	37	71	131	121	0
Aldergrove	1	57	66	126	92	13	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	14	53	93	131	71	0
Armagh	1	59	62	117	109	16	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	15	66	93	130	59	0

TABLE IX [First published 1914] Distribution of Winds of stated speeds at Anemograph Stations, and Maximum Speeds for the Year 1963

DISTRICT AND STATION		Distribution of Mean Hourly Values of Wind Speed										Mean Hourly Wind Speed	Highest Velocities								
		34 knots or more		22 to 33 knots		11 to 21 knots		4 to 10 knots		Less than 4 knots	No Record		Highest Hourly Wind					Highest Gust			
		No. of Days	Duration		No. of days	Duration	Duration	Duration	Duration				Veer from N.	Speed	Hour ended at			Speed	Day and Time		
			1963	Aver-24h											Month	Day	Hour		Month	Day	Hour
SCOTLAND			hr.	hr.		hr.	hr.	hr.	hr.		knots		knots	Month	Day	Hour	knots	Month	Day	Hour	
0	Lerwick Observatory	29	168	240	126	1116	3790	3231	455	0	13.3	270	58	September	26	17	87	September	26	1505	
	Kirkwall	9	50	79	122	949	3929	3203	629	0	12.5	260	53	September	26	11	78	September	26	1120	
	Dounreay	19	60	—	98	790	3810	3820	144	136	12.3	290	43	September	26	12	73	September	26	1120	
	Stornoway (Coastguard)	55	380	220	204	1864	3912	1561	1043	0	16.0	190	58	October	13	09	80	December	24	0405	
	Duirinish	20	93	—	100	654	3410	3501	1061	41	11.0	180	46	December	24	07	75	September	26	1300	
	Benbecula	39	275	145	205	1910	4028	1871	875	0	15.7	160	52	December	25	04	78	December	25	0240	
1	Lossiemouth	2	4	—	68	308	2854	3893	1689	12	8.9	210	39	November	5	24	61	October	13	0920	
	Dyce	1	1	6	30	140	2128	3670	2821	0	7.1	210	35	March	5	23	50	March	5	2245	
	Auchterhouse	1	3	—	44	202	2679	3767	1667	442	8.8	(230	36	September	28	12)	(55	September	26	0855)	
	Bell Rock Lighthouse	38	184	295	203	1980	4233	1733	630	0	15.9	(140) (240	45	February	6	19	62	September	26	0820	
	Leuchars	3	15	8	80	540	3242	3978	985	0	10.5	(100) (230	36	January	20	11	57	September	26	1315	
	Turnhouse	3	9	—	60	330	3196	3969	1256	0	9.6	090	42	January	20	12	66	January	20	1220	
	Edinburgh, Blackford Hill	17	70	16	95	619	3489	3171	932	469	11.2	(160	53	March	5	16)	(79	March	5	1540)	
	6a Tiree	50	331	115	196	1971	3909	1661	888	0	15.9	170	50	December	24	02	71	December	24	0305	



TABLE IX (continued)—[First published 1914] Distribution of Winds of stated speeds at Anemograph Stations, and Maximum Speeds for the Year 1963

DISTRICT AND STATION		Distribution of Mean Hourly Values of Wind Speed										Highest Velocities							
		34 knots or more		22 to 33 knots		11 to 21 knots	4 to 10 knots	Less than 4 knots	No Record	Mean Hourly Wind Speed	Highest Hourly Wind				Highest Gust				
		No. of Days	Duration	No. of Days	Duration	Duration	Duration	Duration	Duration		Veer from N.	Speed	Hour ended at			Speed	Day and Time		
			1963		Average	Duration	Duration	Duration	Duration	Month			Day	Hour	Month		Day	Hour	
SCOTLAND -contd.																			
Millport	11	64	42	79	497	2831	2891	2344	133	9-5	060	50	January	20	08	65	February	6	1035
Paisley	0	0	0-9	20	71	2178	4235	2276	0	7-3	180	29	October	21	08	56	November	10	1606
Renfrew	1	4	4	40	192	2573	4286	1705	0	8-2	100	37	January	20	10	56	September	26	1025
Lowther Hill	78	539	—	212	1988	3753	1691	572	217	17-1	100	86	January	20	11	100	November	21	1850
Prestwick Airport	2	2	9	46	224	3149	4174	1211	0	9-4	090	36	January	20	12	57	January	20	0955
Eskdalemuir Observatory	1	3	26	48	198	1918	3728	2913	0	7-1	060	36	January	20	03	59	November	21	2030
West Freugh	6	27	—	86	565	3382	3319	1246	221	10-6	120	41	February	6	11	67	January	20	0905
ENGLAND and WALES																			
6b Ronaldsway	42	272	—	181	1831	4105	2090	462	0	15-8	110	53	February	6	10	71	November	21	1650
Point of Ayre	13	69	57	133	1087	4452	2634	518	0	13-5	140	43	February	6	12	72	February	6	1225
2 Durham	0	0	5	22	92	2186	3626	2753	103	6-9	220	30	March	7	09	59	September	26	1100
South Shields	1	13	12	45	288	2980	3951	1528	0	9-2	100	37	January	20	09	51	November	12	1910
Cranwell	0	0	3	40	200	2983	4499	1078	0	9-2	220	32	November	18	10	55	November	12	1350
3 Gorleston	1	4	—	37	246	3619	4625	233	33	10-6	070	37	January	19	16	52	November	18	1140
Mildenhall	0	0	3	17	91	1886	4584	2199	0	7-1	220	32	November	21	18	60	January	19	1550
Cardington	3	14	20	75	471	4041	3486	748	0	11-1	230	39	November	21	18	56	November	18	1510
Garston	0	0	—	0	0	792	6149	1814	5	6-0	270	21	March	25	13	49	November	18	1140
Rothamsted	0	0	0	0	0	879	5273	2560	48	5-6	040	21	November	12	15	49	November	18	0815
Stansted	0	0	—	16	53	3095	4666	941	5	9-1	040	29	January	19	17	47	November	18	1140
Coryton	0	0	0	8	27	1789	5615	1262	67	7-6	240	30	January	19	13	49	January	19	1615
Shoeburyness	17	75	26	115	975	4391	2975	334	10	13-2	070	45	November	18	10	57	November	18	1055
4 Sheffield	0	0	—	4	12	612	4517	3561	58	4-8	220	25	January	19	15	73	November	18	0905
Edgbaston	0	0	0-7	6	19	1474	6143	1124	0	7-2	200	26	August	26	14	53	September	26	0810
Elmdon	0	0	—	31	138	2883	4554	1185	0	9-0	230	32	March	16	07	56	January	19	2005
Keele	0	0	0-1	15	44	2061	4375	2280	0	7-3	050	27	November	21	19	58	November	21	1850
5 Kingsway	0	0	0	8	23	1996	5879	862	0	8-1	060	25	January	19	22	53	January	19	2225
London(Heathrow)Airport	0	0	—	29	126	2818	5011	805	0	9-0	030	25	April	6	12	58	November	18	1110
Hampton	0	0	0	14	66	1987	4794	1913	0	7-3	230	30	January	19	14	60	November	18	0700
Kew Observatory	0	0	0-1	14	46	2044	4803	1867	0	7-5	230	33	November	18	12	61	November	18	1330
Garwick	1	3	—	24	128	1895	4329	2405	0	7-2	030	27	January	19	16	58	January	19	1415
Isle of Grain	1	5	2	25	128	2039	3717	2701	170	7-1	050	39	November	18	09	61	November	18	0415
Dover	2	5	15	43	330	3017	3956	1254	198	9-7	—	36	January	19	13	50	November	18	0905
Thorney Island	0	0	0-7	18	91	2577	4008	2084	0	7-9	230	31	November	17	19	64	November	18	1030
Hurn	1	1	—	27	126	3149	4158	1326	0	9-2	230	31	November	18	10	54	November	18	1055
Calshot	3	8	17	60	336	4945	3096	375	0	12-0	180	34	November	18	08	58	November	18	0720
S. Farnborough	0	0	4	6	30	1275	4555	2900	0	6-0	200	35	March	9	16	51	November	18	0730
Larkhill	0	0	4	20	101	2111	4406	2142	0	7-5	040	35	November	17	17	59	November	18	0830
Boscombe Down	0	0	5	37	141	2276	4116	2227	0	7-8	220	31	January	19	16	60	November	18	0705
Porton	1	5	2	37	186	2369	3709	2491	0	7-8	230	33	November	18	08	53	November	18	0740
7a Carlisle	1	1	—	37	200	2828	3409	2322	0	8-1	190	36	March	9	12	56	March	9	1410
Sellafield	5	11	11	73	455	3394	3954	869	117	10-5	070	34	January	20	10	62	January	20	0945
Spadeadam	6	29	—	77	506	3609	3665	852	99	11-1	070	39	January	20	04	60	January	20	0355
Southport	6	31	83	66	408	2958	3640	1576	147	9-6	260	46	January	20	07	65	November	21	1745
Fleetwood	6	19	44	65	495	3038	3603	1252	353	9-9	290	41	November	12	11	61	November	12	1030
Speke	5	17	22	66	350	3311	4023	1059	0	10-0	240	39	June	18	14	63	November	12	1115
Manchester W/Centre	0	0	—	17	92	2319	4604	1667	78	7-9	240	39	November	21	15	61	November	21	1710
Bidston Observatory	4	12	34	64	406	3529	3750	969	94	—	060	30	November	21	18	64	November	12	1505
Ringway	1	4	9	50	254	2776	4093	1633	0	8-7	060	37	December	3	16	73	January	19	1055
7b Valley	25	122	69	119	1166	3596	2786	1090	0	12-7	220	46	November	18	06	65	January	19	2220
8a Aberporth	18	83	34	159	1286	4222	2279	890	0	13-7	160	42	December	25	05	65	November	18	0510
Port Talbot	3	6	10	79	521	3818	3254	1161	0	10-9	060	36	December	3	10	60	December	25	0410
Rhoose	6	29	—	81	560	3885	3870	416	0	11-5	250	40	November	18	10	73	November	18	0935
8b Plymouth Hoe	12	39	44	86	548	3150	3449	1574	0	10-1	—	42	December	3	16	73	November	18	0125
St. Mary's, Scilly	30	161	133	159	1489	4533	2036	541	0	15-0	230	56	December	3	10	60	December	3	0930
The Lizard	43	272	194	190	1612	4355	1794	423	304	15-9	200	47	November	18	10	64	November	18	0640
NORTHERN IRELAND																			
9 Ballykelly	7	19	8	64	348	2777	3234	2382	0	8-6	120	53	March	6	03	76	March	15	2310
Aldergrove	6	19	5	88	567	4383	2815	976	0	11-6	100	38	January	20	04	64	March	16	0010
CHANNEL ISLES																			
Jersey Airport	5	16	74	97	810	5089	2576	269	0	13-3	230	41	February	5	2020	60	March	16	0105
																	November	11	1430
																	December	3	0835
																	December	3	0835
																	November	21	1505
																	November	21	1600
																	March	11	1145

Note: Station with 500 hours or more defective record have been omitted. These are indicated in Table X by symbols in column "YEAR"

TABLE X [First published 1934] Number of Hours in each Month of 1963 with Gusts Exceeding (a) 33 kt. and (b) 47 kt.

District and Station		Number of Hours exceeding 33 kt.												Number of Hours exceeding 47 kt.													
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year
0	Lerwick Obs'y	60	27	156	61	20	45	45	3	144	226	181	185	1153	10	0	17	0	0	0	1	0	41	48	27	80	224
	Kirkwall	49	65	106	54	59	1	12	9	85	120	67	125	752	5	0	5	0	0	0	0	0	17	27	11	23	88
	Dounreay	(78)	86	119	79	62	0	(8)	23	(80)	123	61	64	*	4	10	7	7	0	0	0	0	(18)	22	21	8	*
	Stornoway	93	150	127	88	206	10	28	8	194	191	175	150	1420	12	33	21	4	42	0	0	0	51	55	43	68	329
	Duirinish	19	48	62	46	110	6	12	3	92	143	86	(134)	*	2	9	23	2	12	0	0	0	24	36	8	47	163
	Benbecula	55	156	177	108	212	38	47	91	297	340	222	210	1953	0	39	21	12	19	0	0	2	61	70	57	110	391
1	Lossiemouth	60	61	73	55	62	6	16	21	62	104	65	81	666	1	2	7	2	0	0	0	0	15	18	5	6	56
	Dyce	0	1	11	1	13	0	0	1	21	20	12	25	105	0	0	1	0	0	0	0	0	0	0	0	1	2
	Auchterhouse	(29)	18	20	33	23	4	2	5	51	(40)	(52)	(5)	*	1	0	0	0	0	0	0	0	11	2	0	0	1
	Bell Rock	187	109	102	90	44	20	3	16	66	101	118	100	954	15	16	2	2	0	0	0	0	16	7	6	2	66
	Rannoch	60	87	47	78	(55)	(6)	10	10	(91)	(155)	(69)	(81)	*	22	24	8	4	4	0	0	(16)	(4)	15	9	*	
	Leuchars	81	44	37	38	45	7	0	2	42	61	52	25	434	8	2	0	1	1	0	0	0	9	5	1	0	27
	Turnhouse	(26)	17	49	40	61	5	0	4	53	62	62	40	*	7	0	9	1	3	0	0	0	7	7	6	0	40
	Edinburgh	46	33	108	(91)	(130)	(13)	38	(34)	(89)	(155)	85	(64)	*	1	9	47	3	22	0	0	0	(20)	(32)	19	(19)	*
5a	Tiree	103	231	222	113	179	81	19	51	150	310	210	239	1908	27	88	20	7	9	0	1	1	38	38	44	77	350
	Millport	47	58	37	69	16	11	2	2	37	43	(78)	(56)	*	11	12	2	1	1	0	0	0	8	1	(27)	3	*
	Palsley	16	14	41	58	55	8	6	3	44	52	31	38	369	4	0	2	0	0	1	0	0	5	0	3	1	16
	Renfrew	22	24	36	40	30	0	0	6	41	38	46	21	304	9	1	2	0	0	0	0	0	5	0	1	1	16



Table X (continued)—[First published 1934] Number of Hours in each Month of 1963 with Gusts Exceeding (a) 33 kt. and (b) 47 kt.

District and Station		Number of Hours exceeding 33 kt.												Number of Hours exceeding 47 kt.														
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year	
6b	Lowther Hill	(250)	102	183	126	(280)	(109)	31	60	162	197	187	202	*	(89)	34	77	30	46	14	0	1	54	34	71	32	*	
	Prestwick	25	32	39	29	16	1	1	1	28	28	55	20	275	6	1	0	0	0	0	0	0	2	0	5	1	15	
	Eskdalemuir Obs'y.	47	23	49	60	73	18	10	17	53	73	54	35	512	8	0	3	0	7	0	0	0	3	1	5	0	27	
	West Freugh	25	75	(55)	43	72	14	4	21	35	56	100	89	*	5	21	(2)	1	1	0	0	0	0	1	14	0	*	
	Ronaldsday	239	133	121	82	99	24	14	37	115	130	226	227	1447	33	41	15	2	1	0	0	0	2	5	61	14	174	
2	Point of Ayre	82	96	101	52	64	8	3	29	60	78	109	100	782	16	29	9	0	1	0	0	0	1	0	24	4	84	
	Durham	20	0	33	33	28	18	3	(20)	52	44	(36)	12	*	1	0	4	0	1	0	0	0	10	0	4	0	20	
	South Shields	50	20	10	3	6	8	0	0	22	9	32	4	164	4	0	0	0	0	0	0	0	1	0	4	0	9	
	Cranwell	17	1	46	20	33	17	4	27	33	23	85	13	319	1	0	0	0	0	0	0	1	0	15	0	17		
	Gorleston	40	1	13	5	1	2	0	4	4	2	5	6	83	3	0	0	0	0	0	0	0	0	0	0	0	3	
3	Mildenhall	13	0	38	18	15	13	0	11	23	10	72	4	217	1	0	1	0	0	0	0	0	0	0	9	0	11	
	Cardington	13	1	54	21	26	18	2	22	17	4	97	5	280	0	0	1	0	0	0	0	0	0	12	0	13		
	Garston	6	0	14	5	0	3	0	0	3	0	45	0	76	0	0	0	0	0	0	0	0	0	1	0	1		
	Rothamsted	7	0	11	5	3	2	0	0	4	0	39	1	72	0	0	0	0	0	0	0	0	0	0	0	0		
	Stansted	10	0	13	3	0	1	0	2	2	0	12	0	43	1	0	0	0	0	0	0	0	0	0	0	1		
4	Coryton	26	0	26	18	2	10	1	7	10	3	68	0	171	2	0	0	0	0	0	0	0	0	4	0	6		
	Shoeburyness	152	18	63	55	28	56	6	75	28	14	147	26	668	19	0	7	4	0	0	0	2	1	0	40	0	73	
	Sheffield	5	0	15	3	4	3	0	15	28	4	51	5	133	0	0	0	0	0	0	0	1	4	0	1	0	6	
	Edgbaston	17	0	24	4	4	1	0	0	3	0	19	3	75	1	0	0	0	0	0	0	0	0	0	0	1	0	
	Elmdon	12	0	37	14	18	7	1	8	6	3	57	4	167	0	0	0	0	0	0	0	0	0	0	6	0	6	
5	Keele	(82)	25	44	45	43	29	3	(6)	13	58	36	*	6	0	1	0	1	0	0	0	0	0	7	0	15		
	Avonmouth	30	(11)	86	44	(46)	(39)	(2)	(33)	(19)	4	117	13	*	1	0	12	1	0	0	0	1	0	16	0	31		
	Kingsey	23	1	24	14	2	14	1	8	11	0	61	4	163	1	0	2	0	0	0	0	0	0	4	0	7		
	London Airport	19	2	28	13	0	13	0	0	9	0	52	1	137	1	0	1	0	0	0	0	0	0	6	0	8		
	Hampton	55	1	36	21	8	20	1	6	9	0	70	8	235	2	0	2	0	0	0	0	0	0	9	0	13		
7a	Kew Obs'y.	45	1	50	24	9	20	4	9	3	1	74	14	254	3	0	1	0	0	0	0	0	0	4	0	8		
	Gatwick	21	1	32	17	2	8	2	15	11	3	82	1	195	3	0	3	0	0	0	0	0	0	10	0	16		
	Isle of Grain	(31)	1	17	12	0	0	1	3	1	0	62	1	*	(1)	0	0	0	0	0	0	0	0	4	0	*		
	Dover	(63)	10	48	20	23	29	0	46	(31)	14	(169)	(18)	*	(0)	0	0	0	0	0	0	0	2	27	0	*		
	Thorney Island	12	3	14	12	12	8	1	14	12	2	94	3	187	0	0	0	0	0	0	0	0	0	0	6	0	6	
8a	Hurn	14	2	26	8	6	5	0	5	10	1	76	1	154	0	0	2	0	0	0	0	0	0	0	7	0	9	
	Calshot	(3)	5	14	6	3	3	0	2	3	4	55	1	*	0	0	1	0	0	0	0	0	0	0	3	0	4	
	S. Farnborough	15	1	27	14	7	9	0	0	6	0	71	3	153	0	0	1	0	0	0	0	0	0	6	0	7		
	Abingdon	(0)	3	30	14	9	6	0	5	9	1	(38)	†	†	0	0	0	0	0	0	0	0	0	(0)	†	†		
	Larkhill	25	8	30	15	16	12	0	14	8	6	103	7	244	0	0	4	0	0	0	0	0	0	8	0	12		
8b	Boscombe Down	45	9	43	33	10	15	0	(5)	5	0	70	15	*	0	0	5	0	0	0	0	0	0	4	0	9		
	Porton	(19)	6	34	25	3	15	0	7	6	1	70	12	*	0	0	7	0	0	0	0	0	0	5	0	12		
	Carlisle	11	14	42	16	16	2	0	10	30	38	39	21	239	3	0	2	0	0	0	0	0	2	1	3	0	11	
	Sellafield	27	43	34	20	14	5	0	3	32	21	82	(27)	*	4	4	0	0	0	0	0	0	0	10	0	18		
	Spadeadam	(72)	28	72	90	58	(38)	3	20	49	(64)	(58)	58	*	22	2	11	2	0	3	0	3	5	(0)	(7)	0	*	
9	Moor House	(86)	(49)	(100)	79	153	73	53	79	145	218	147	(142)	*	18	0	(10)	0	16	6	5	4	21	18	37	11	*	
	Southport	19	20	34	26	38	35	0	34	60	36	69	29	400	6	0	1	1	0	0	0	0	2	0	26	0	36	
	Fleetwood	39	31	30	46	85	33	0	70	88	66	108	(20)	*	3	3	1	0	3	2	0	0	6	1	32	1	52	
	Speke	17	9	41	34	49	33	1	23	45	35	75	31	393	2	0	3	0	0	1	0	0	1	1	21	4	33	
	Manchester W/Centre	60	18	31	42	29	37	1	19	39	31	67	51	425	4	1	4	3	0	0	0	1	3	0	23	7	46	
9b	Bidston Observatory	36	48	(66)	56	129	53	2	76	102	84	111	74	*	5	(6)	(8)	1	10	3	0	0	12	2	39	3	*	
	Ringway	52	33	43	33	16	19	0	4	16	11	58	42	327	5	0	1	0	0	0	0	0	0	2	3	11	*	
	Valley	29	31	116	44	62	19	13	25	35	53	186	118	731	2	1	4	1	0	0	0	0	1	60	14	83	*	
	Aberporth	93	(162)	(138)	(26)	(74)	(11)	12	(64)	(53)	(67)	(146)	(106)	*	8	(33)	(6)	(2)	4	0	0	1	8	(0)	(32)	(12)	*	
	Port Talbot	143	128	38	35	26	34	0	41	29	40	139	51	704	9	5	2	3	0	0	0	0	1	0	19	14	53	
9c	Rhoose	102	13	29	26	34	48	0	50	26	18	121	30	497	1	0	0	0	1	0	0	0	8	30	1	41	41	
	Plymouth	(39)	(19)	(18)	†	†	29	0	(9)	8	5	(93)	(39)	8	(1)	(1)	(4)	†	†	0	0	0	0	0	(11)	(1)	†	
	Scilly	228	155	213	103	68	41	1	40	29	43	265	155	1341	65	7	25	13	9	2	0	1	0	0	61	19	202	*
	Lizard	252	137	119	98	86	(61)	8	46	(45)	84	(266)	153	*	61	29	19	13	11	2	0	5	0	(58)	24	*	*	
	Ballykelly	52	84	100	48	77	11	3	17	45	66	64	83	650	4	20	6	3	1	0	0	0	1	1	8	7	51	
9d	Aldergrove	60	65	77	84	67	30	4	21	28	32	68	55	591	6	2	4	4	0	0	0	0	2	1	10	3	32	
	Jersey	146	35	46	5	12	26	0	42	31	34	195	26	598	20	0	6	0	0	1	0	6	0	9	0	42	42	

\* Defective record † Incomplete record ‡ Anemograph dismantled for re-erection

OCCASIONS OF 'STRONG GALES' in 1963  
TABLE XI [First published 1900]—Occasions on which the Maximum Hourly Mean Wind was 41 knots or more

District and Station	Date	Maximum Hourly Mean wind of 41 Knots or more			Maximum Speed in a gust during the day			Hours for which mean speed exceeded 33 Knots on date in second column	District and Station	Date	Maximum Hourly Mean wind of 41 Knots or more			Maximum Speed in a gust during the day			Hours for which mean speed exceeded 33 Knots on date in second column
		Hour ended at	Direction	Speed	Time	Direction	Speed				Hour ended at	Direction	Speed	Time	Direction	Speed	
0	Lerwick	Sept. 13	24	230	45	2335	230	68	Turnhouse	Jan. 20	12	090	42	1220	090	66	07, 08, 10-13
	Observatory	Sept. 15	19	250	41	1800	250	61		Mar. 5	16	160	53	1540	160	79	05, 06, 09-21
6a	Tiree	Sept. 26	17	270	58	1505	260	87	Edinburgh	Mar. 7	10	210	43	0925	210	68	08-12
		Oct. 11	11	250	43	0535	230	65		May 7	23	170	47	2145	170	78	19, 22-24
Kirkwall	Downreay	Oct. 16	02	230	48	0050	220	76	6a	Nov. 21	08	160	46	0740	160	73	07-10
		Dec. 24	04	200	41	0445	200	61		Dec. 29	04	180	42	0330	180	63	04-09, 11, 12



OCCASIONS OF "STRONG GALES" IN 1963  
TABLE XI (continued)—Occasions on which the Maximum Hourly Mean Wind was 41 knots or more.

District and Station	Date	Maximum Hourly Mean wind of 41 Knots or more			Maximum Speed in a gust during the day			Hours for which mean speed exceeded 33 Knots on date in second column	District and Station	Date	Maximum Hourly Mean wind of 41 Knots or more			Maximum Speed in a gust during the day			Hours for which mean speed exceeded 33 Knots on date in second column
		Hour ended at	Direction	Speed	Time	Direction	Speed				Hour ended at	Direction	Speed	Time	Direction	Speed	
Lowther Hill (contd.)	Nov. 21	22	290	45	h. m.	280	88	04-08, 14-24	7b Valley	Nov. 12	11	250	45	0915	250	59	01-24
	Nov. 22	07	300	45	0100	310	68	01-13		Nov. 18	06	220	46	0510	220	65	01-13
	Dec. 3	13	100	41	1250	100	63	03-05, 07-09, 11-18		Nov. 21	21	250	45	2025	250	61	04-15, 17-24
	Dec. 30	13	250	44	1225	240	65	08, 10-15		Dec. 25	05	160	46	0410	160	65	01-06
	Feb. 6	11	120	41	1030	120	65	01-13		Feb. 5	24	130	42	—	—	—	08-24
	Jan. 1	01	090	46	0040	090	59	01-10		Feb. 6	02	130	42	—	—	—	01-08
	Jan. 20	05	090	45	0135	080	58	02-20, 22-24		Mar. 15	24	—	42	2310	—	58	22-24
	Jan. 21	05	100	42	0450	100	51	01-13, 15, 16, 18, 20, 24		Mar. 15	24	210	50	2355	210	78	20-24
	Feb. 5	19	110	47	2310	110	60	09-24		Mar. 16	01	230	56	0010	220	83	01-06
	Feb. 6	10	110	53	0930	110	67	01-23		Nov. 10	13	200	42	1200	190	65	10-19, 21, 22
West Freugh 6b Ronaldsday	Feb. 14	12	110	41	1335	110	53	07-17	8a Aberporth	Nov. 18	07	240	45	0525	230	65	01-11
	Mar. 24	20	220	44	1920	210	60	17-22		Dec. 3	14	090	41	1255	090	62	09-16
	Nov. 12	13	250	47	1250	260	68	06-21, 23		Jan. 18	13	090	42	1600	090	63	01-24
	Nov. 17	16	100	47	1530	100	59	14-18		Feb. 5	21	160	41	2020	160	64	10-22
	Nov. 18	10	240	44	0815	230	62	05-14		Mar. 15	23	180	41	2135	170	63	22-24
	Nov. 21	18	240	46	1650	250	71	04-14, 16-24		Mar. 16	02	230	44	0105	220	64	01-03
	Dec. 25	05	180	45	0440	180	62	04-06		Apr. 20	17	220	42	1620	220	57	02-06, 08-19, 22
	Feb. 6	12	140	43	1225	130	72	01-15		Nov. 10	14	200	47	1400	210	64	10-24
	Nov. 12	14	260	41	1340	260	60	10-22		Nov. 11	11	220	47	1430	220	64	01, 02, 06-17, 21-24
	Jan. 19	15	070	45	1430	070	68	01, 02, 05-18	Lizard	Nov. 12	03	270	41	0150	270	56	01-03, 13, 14
Point of Ayre 3 Shoeburyness	Nov. 17	19	190	45	1325	190	73	07, 09-14		Nov. 17	13	190	44	1245	190	58	11-16, 21-24
	Nov. 18	09	210	43	0905	220	73	01-21		Nov. 18	07	230	45	—	—	—	01-15, 20
	Jan. 20	07	070	46	0640	070	62	01-21		Dec. 3	10	070	42	0835	070	64	06-18
	Jan. 20	07	090	48	1000	110	61	01-18, 22, 23		Feb. 5	24	130	42	2359	130	60	18, 19, 21-24
	Sept. 29	13	280	44	1225	280	62	12-17		Feb. 6	03	120	53	0205	130	68	01-07
	Nov. 21	23	270	42	2055	260	64	08, 19-24		Mar. 11	13	230	41	1145	190	60	12-14, 17, 18
	Nov. 12	11	260	41	1030	260	61	09-24									
									9 Ballykelly								
7a Spadeadam Moor House	Jan. 20	07	070	46	0640	070	62	01-21	Jersey								
	Jan. 20	07	090	48	1000	110	61	01-18, 22, 23									
	Sept. 29	13	280	44	1225	280	62	12-17									
	Nov. 21	23	270	42	2055	260	64	08, 19-24									
	Nov. 12	11	260	41	1030	260	61	09-24									

TABLE XII [First Published 1908]—Dates on which Gusts of 48 Knots or more occurred in 1963.

For an anemograph 33 ft. above ground in the open the limit corresponds with that of Force 10 (Whole Gale) on the Beaufort Scale. Up to 1916 fuller details were given in this table. The time of occurrence of the maximum gust each month can be found by reference to Table II of the appropriate monthly part of the Monthly Weather Report.

District and Station	Dates		District and Station	Dates	
	Jan.	Feb.		Jan.	Feb.
0 Lerwick Obs'y.	Jan. 25, 30.	March 6, 9, 10, 14, 16.	4 Shoeburyness	Jan. 18, 19.	Mar. 9.
	19-21.	Nov. 11, 15, 21, 22, 24, 27, 28.		21.	Apr. 6, 21.
	Jan. 25.	Mar. 14.		Aug. 16.	Sept. 24.
	Jan. 25.	Mar. 14.		Nov. 8, 11, 12, 17-19, 21, 22.	
	Jan. 25.	Mar. 14.		Jan. 19.	Sept. 26.
	Jan. 25.	Mar. 14.		Nov. 18, 21, 24.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 14.
	Jan. 25.	Mar. 14.		May 10.	Nov. 12, 18, 21.
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9, 16.
	Jan. 25.	Mar. 14.		Apr. 21.	Aug. 16.
1 Llossiemouth	Jan. 25.	Mar. 14.	5 Kew Observatory	Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
2 Durham	Jan. 25.	Mar. 14.	7a Carlisle	Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
3 Goringham	Jan. 25.	Mar. 14.	8a Aberporth	Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	
	Jan. 25.	Mar. 14.		Jan. 19.	Mar. 9.
	Jan. 25.	Mar. 14.		Nov. 18.	

TABLE XIII—SOLAR RADIATION AND ILLUMINATION FOR THE YEAR 1963

STATION	TOTAL RADIATION ON A HORIZONTAL SURFACE mw. hr/cm <sup>2</sup>						DIFFUSE RADIATION ON A HORIZONTAL SURFACE mw. hr/cm <sup>2</sup>						TOTAL ILLUMINATION ON A HORIZONTAL SURFACE kilo lux./hrs.					
	Absolute Max.	Date	Absolute Min.	Date	Daily Mean	No. of Days	Absolute Max.	Date	Absolute Min.	Date	Daily Mean	No. of Days	Absolute Max.	Date	Absolute Min.	Date	Daily Mean	No. of Days
Lerwick Observatory	852	23 June	3	1 Dec	216.9	365	436	22 June	3	1 Dec	133.8	365	938	23 June	—	—	—	—
Eskdalemuir Observatory	802	29 May	3	30 Dec	227.4	365	410	26 May	3	30 Dec	141.0	365	868	3 June	3	31 Dec	250.6	360
Cambridge	800	2 June	8	2 Jan	249.5	364	416	21 June	8	2 Jan	149.9	365	—	—	—	—	—	—
Kingsway	810	2 June	5	2 Jan	240.3	365	341	27 June	5	2 Jan	140.8	361	898	10 June	5	2 Jan	263.2	364
Kew Observatory	792	2 June	5	1 Jan	245.1	365	387	21 June	4	1 Jan	145.5	364	889	2 June	6	1 Jan	268.0	365
Aberporth	843	22 June	9	29 Jan	289.4	365	442	8 June	9	29 Jan	166.5	365	—	—	—	—	—	—

Explanatory notes on the tables are given in the Introduction.

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