MONTHLY AND ANNUAL MAPS

OF THE DISTRIBUTION OF

TEMPERATURE, RAINFALL AND SUNSHINE

ACCORDING TO THE

NORMALS

CONTAINED IN THE PRECEDING PAGES.

The charts following show for each month the distribution of day and night temperature, of amount of rainfall and of duration of bright sunshine. They are intended to represent pictorially the distribution of the elements as indicated by the detailed values given in the preceding tables. They are given to assist the reader in grasping what the figures have to convey in regard to the distribution of the elements portrayed. For final maps of the normal distribution of rainfall and sunshine, records from a much larger number of stations are desirable. A map showing the distribution of the stations for which averages are included in the present publication is given at the end of the monthly charts, and charts showing the distribution for the whole year have also been added.

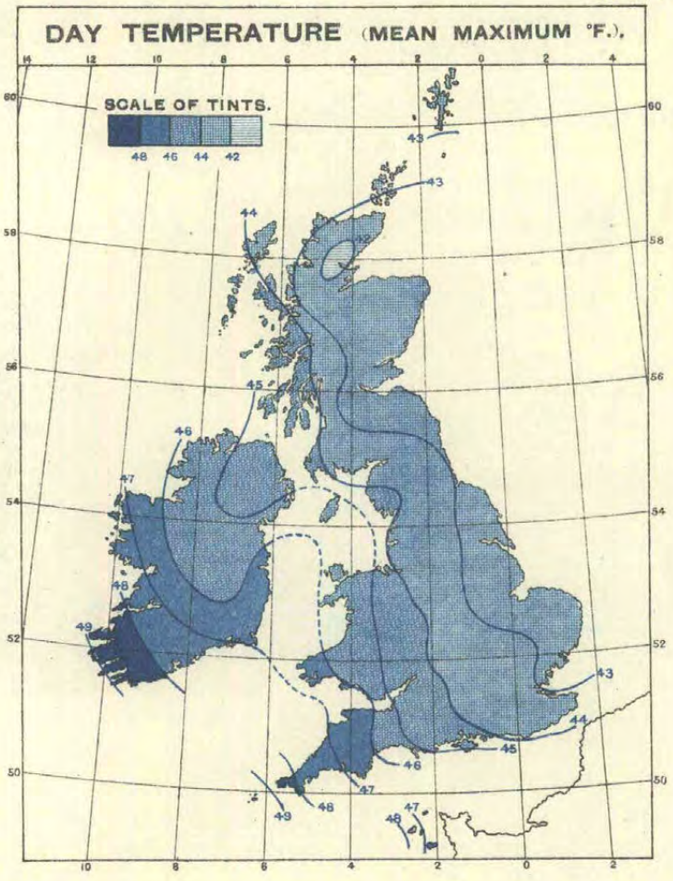
The temperature and rainfall maps are based on the thirty-five year period, 1876–1910, and the sunshine maps on the thirty year period, 1881–1910. In the case of the stations printed in italics the figures for the number of years over which the records extend have been taken. A correction for height above Mean Sea Level has been applied to the temperature. The corrections added to the actual values at Station Level for the various months and for the whole year have been computed by means of the table shown below. The amount of the correction for any station is expressed in degrees F. by h/a, where h is the height in feet of the station above Mean Sea Level, and a is taken from the table. The table itself was prepared by plotting the recorded temperatures for the inland stations against the heights of the stations above Mean Sea Level, and drawing by eye a straight line through the points obtained to represent their general trend.

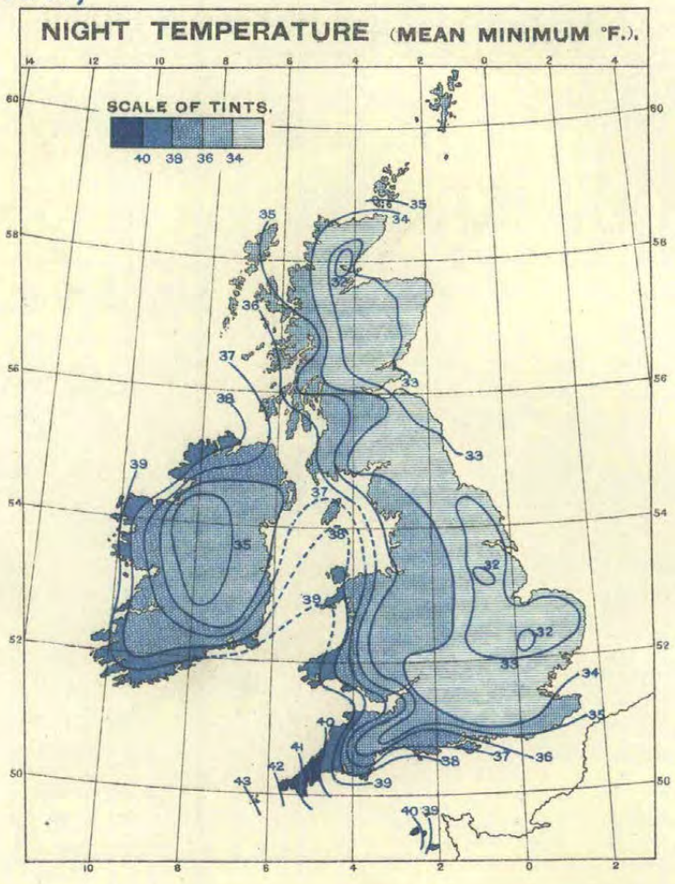
TABLE showing ELEVATION in feet, (values of a) corresponding with the reduction of normal maximum and minimum temperatures by 1° F.

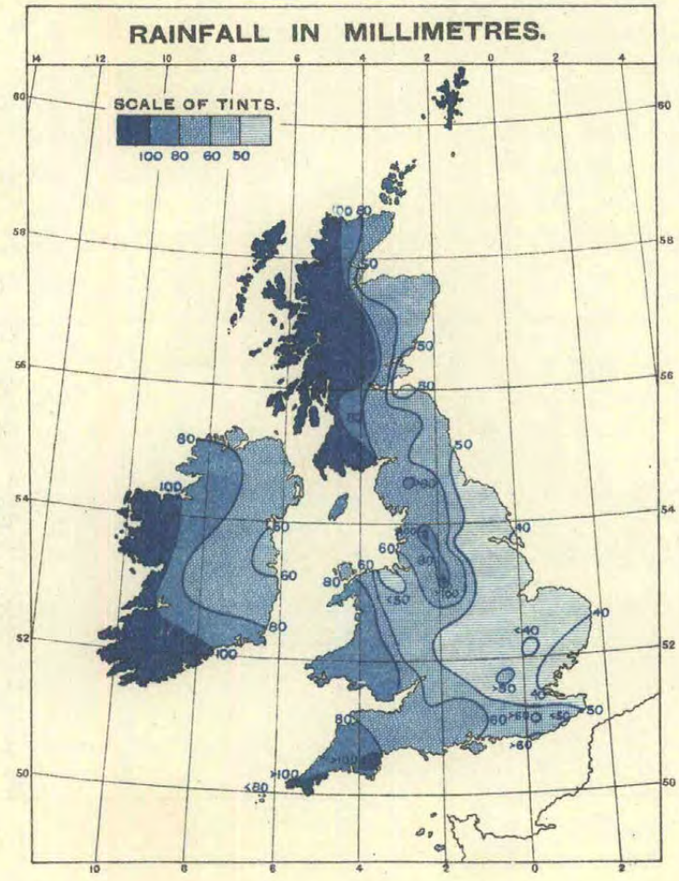
January.		February.		March.		April.		May.		June.		July.		August.		September		October.		November.		December.		Annual.	
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
ENGLAND, WALES, AND IRELAND.																									
250	250	200	250	200	250	200	200	200	200	200	250	200	250	200	250	200	300	200	300	200	300	250	250	210	250
SCOTLAND.																									
400	300	400	300	300	300	300	250	350	250	450	300	450	300	400	300	350	300	300	350	300	350	350	300	360	300

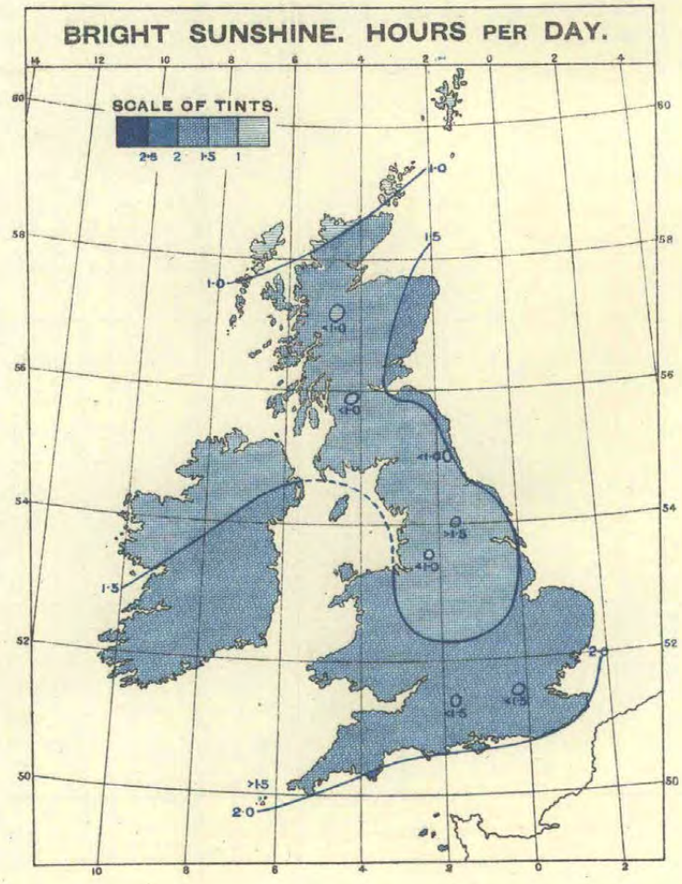
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

JANUARY,









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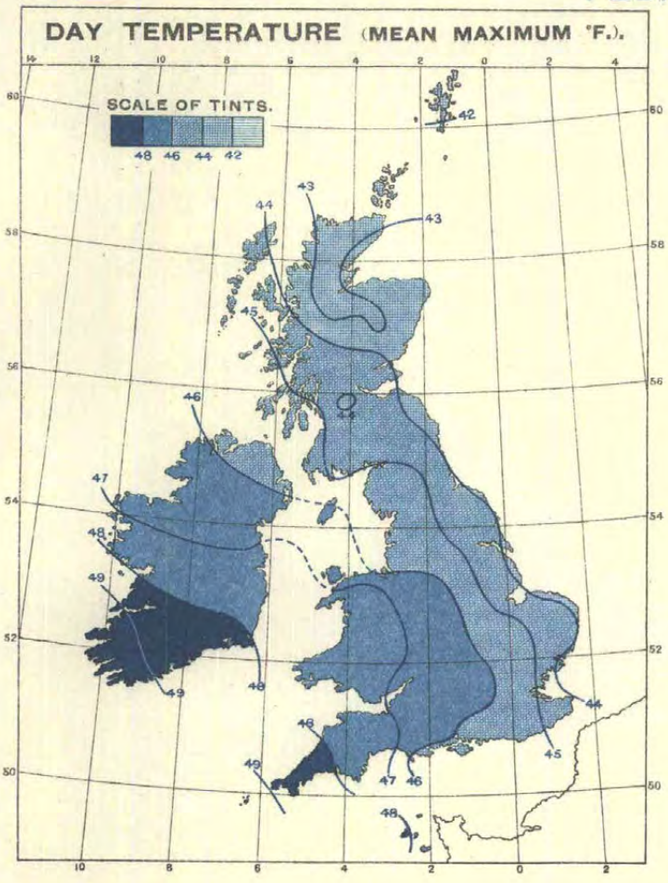
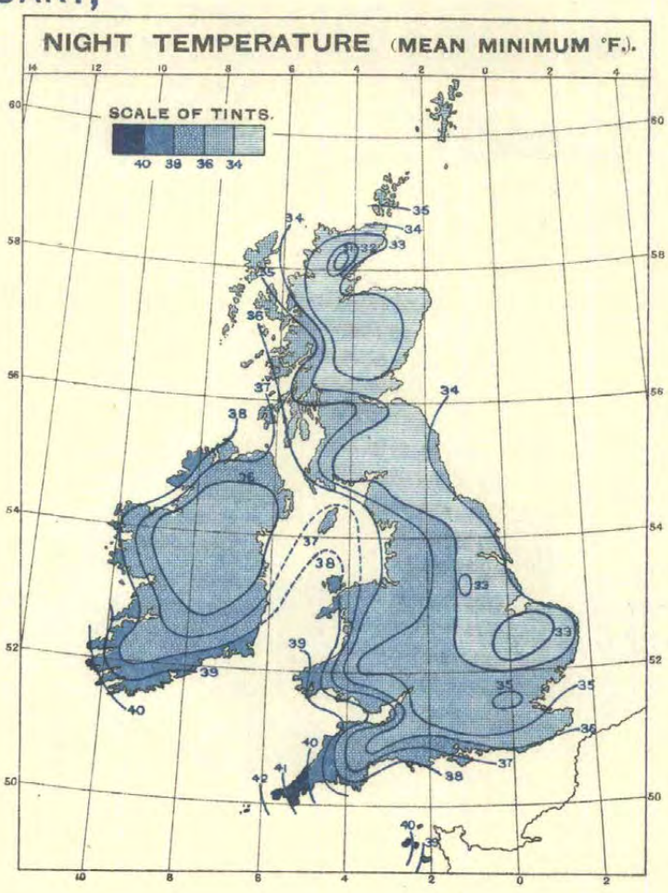
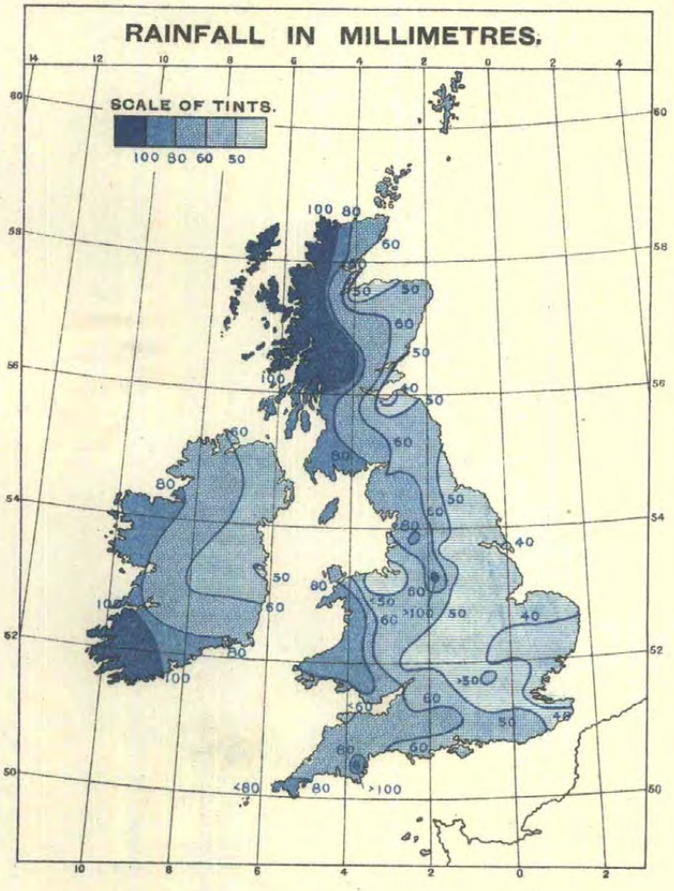
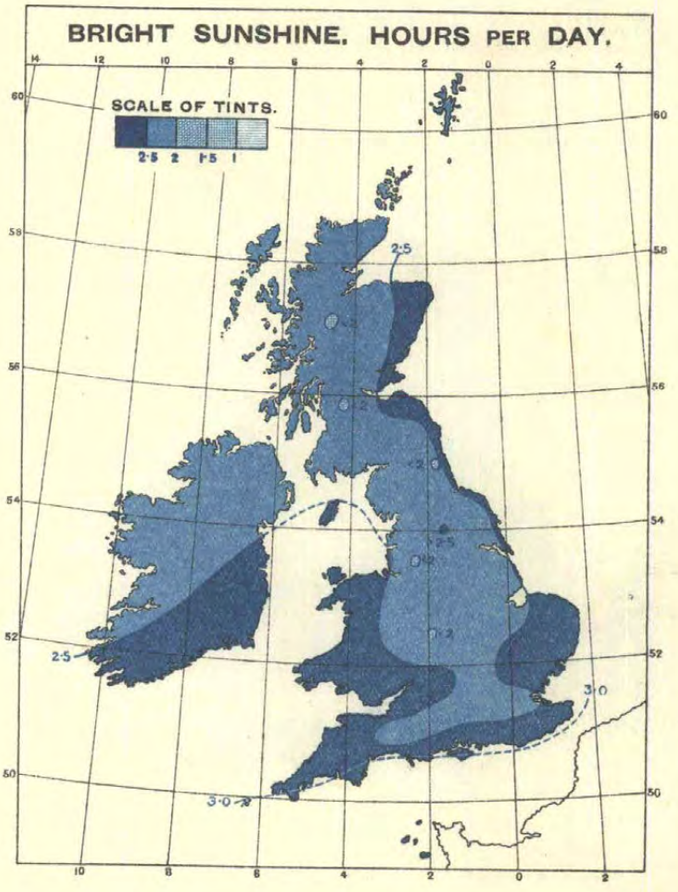
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

FEBRUARY,









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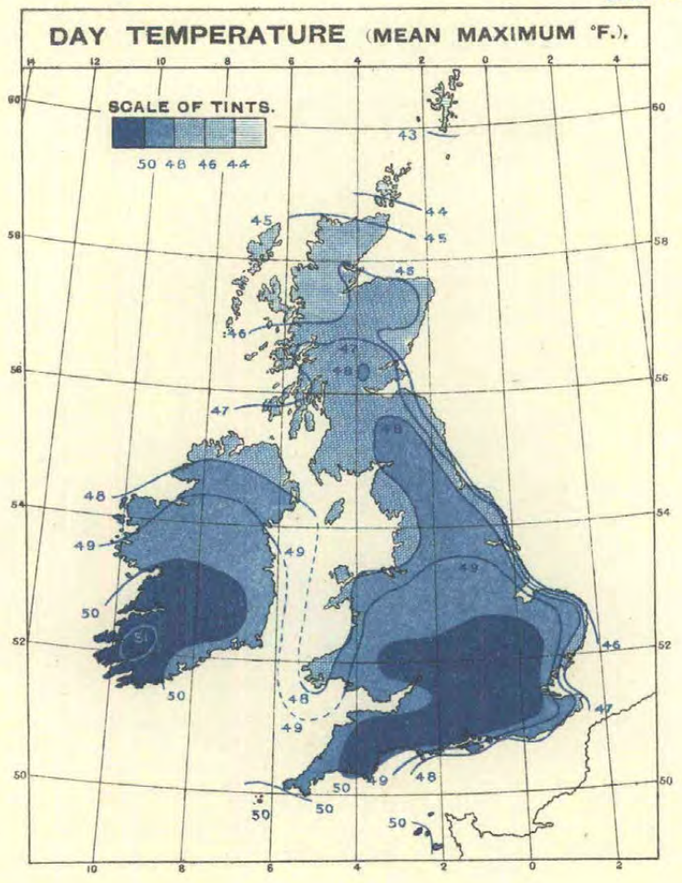
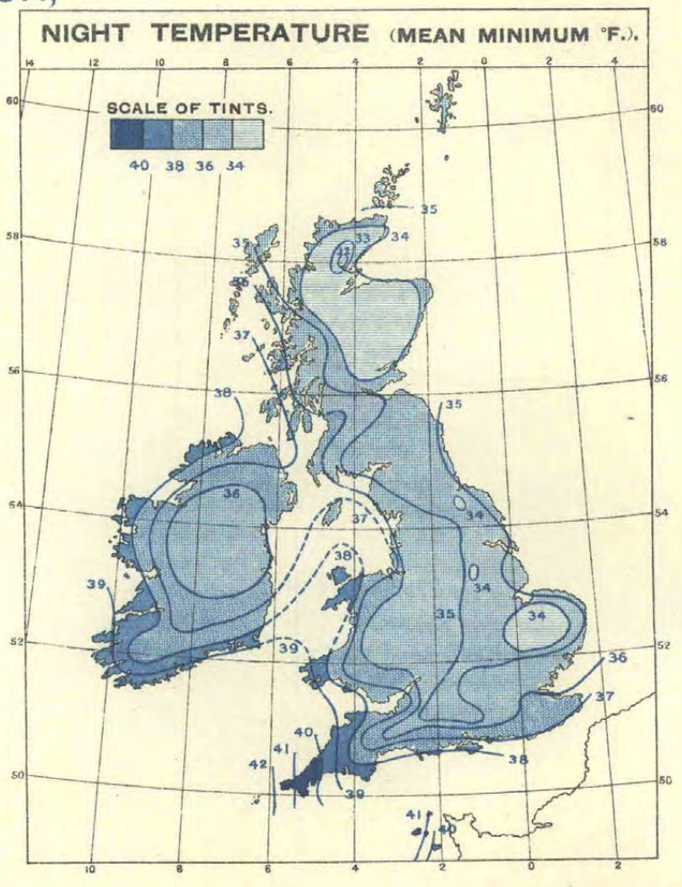
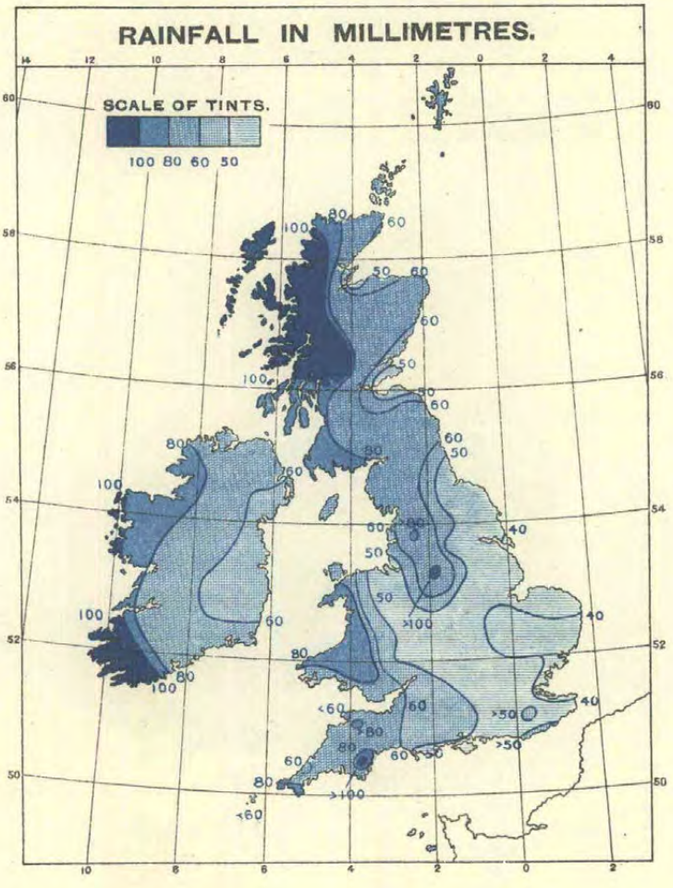
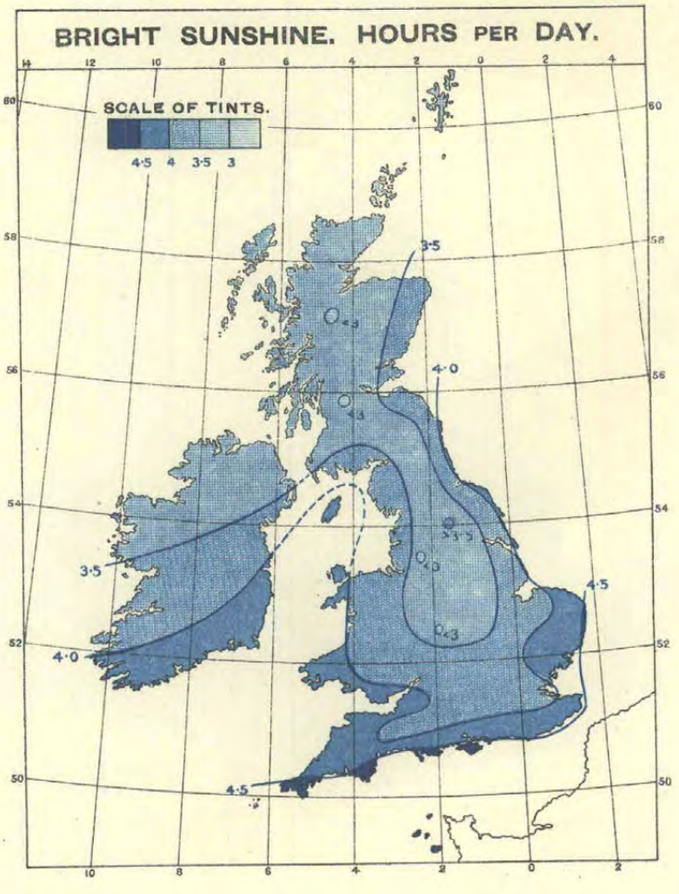
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

MARCH,









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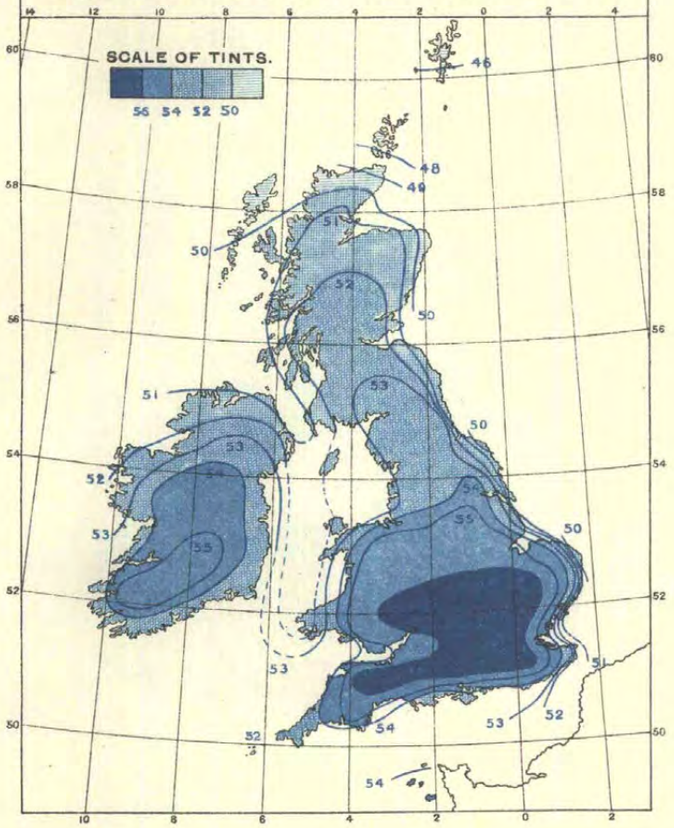
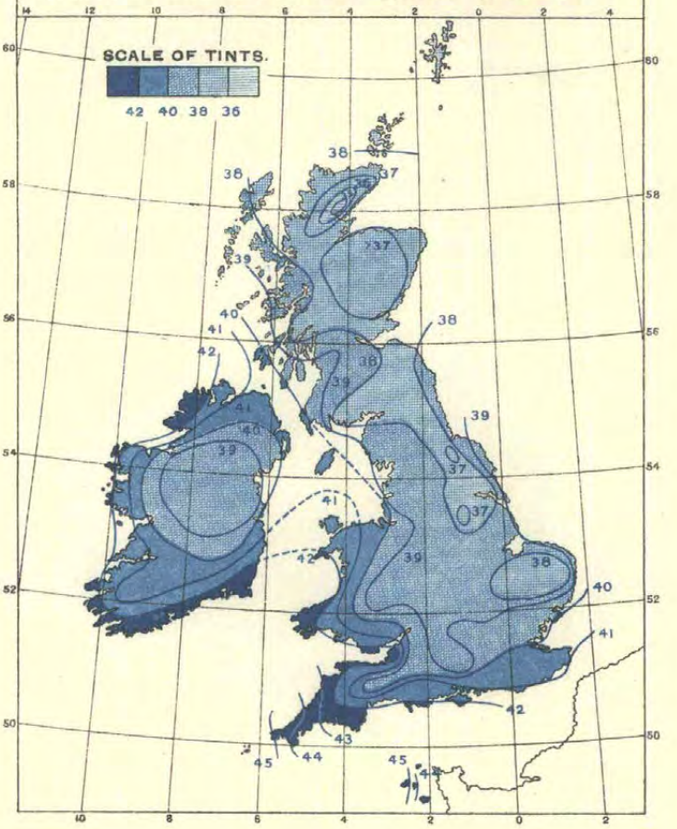
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

APRIL,

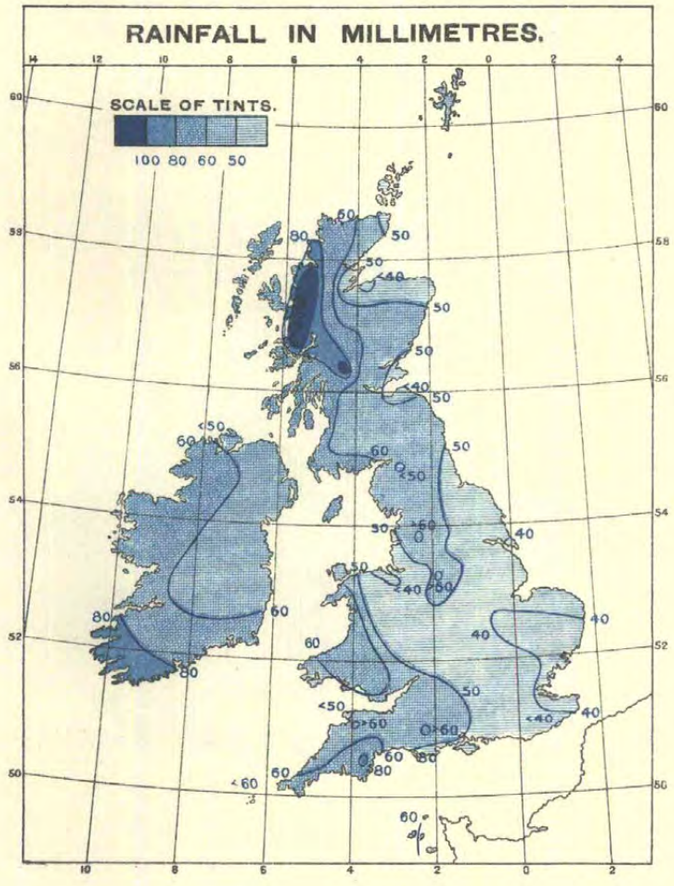
DAY TEMPERATURE (MEAN MAXIMUM °F.).



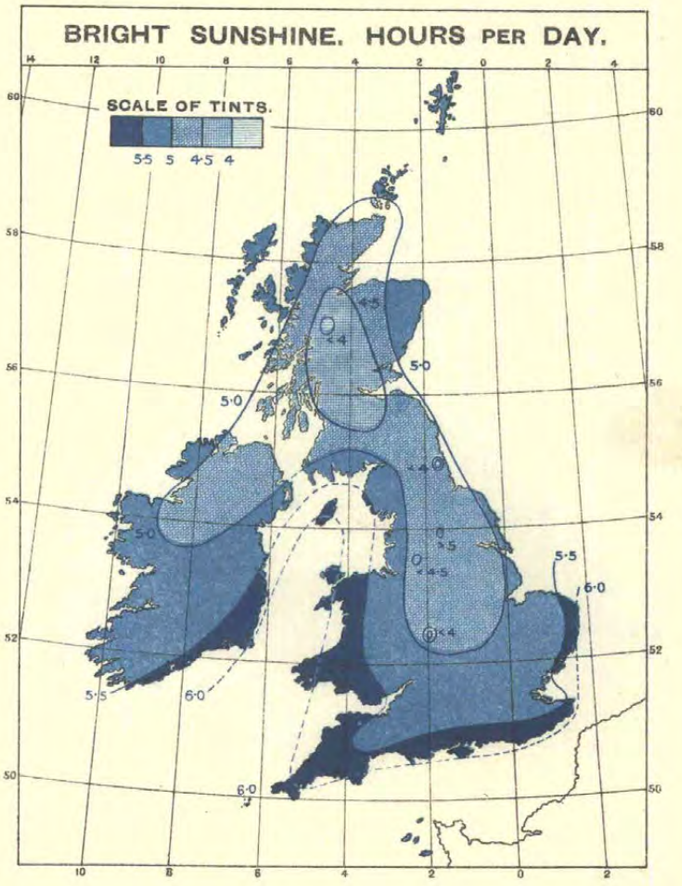
NIGHT TEMPERATURE (MEAN MINIMUM °F.).



RAINFALL IN MILLIMETRES.



BRIGHT SUNSHINE. HOURS PER DAY.



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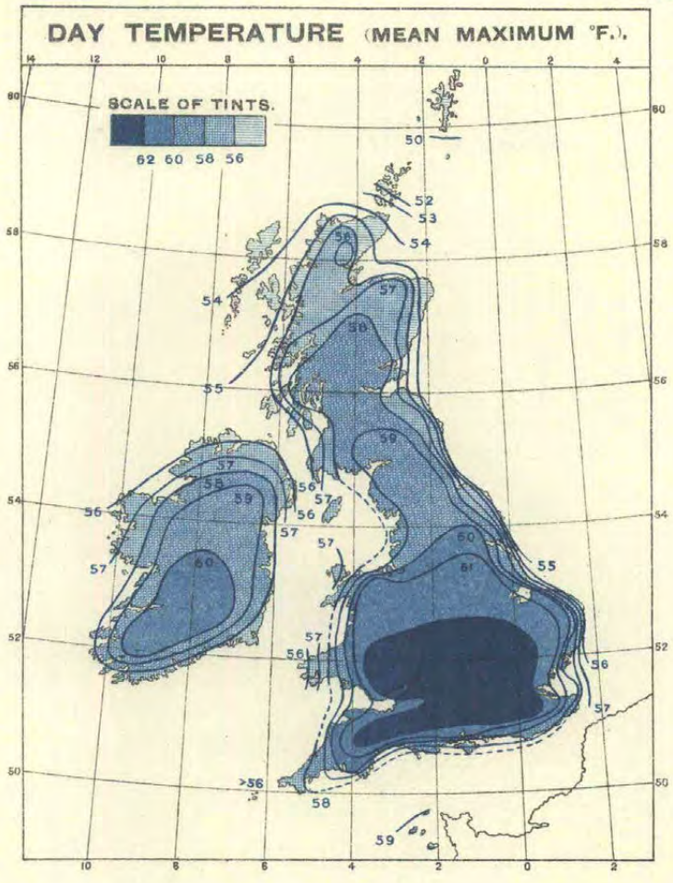
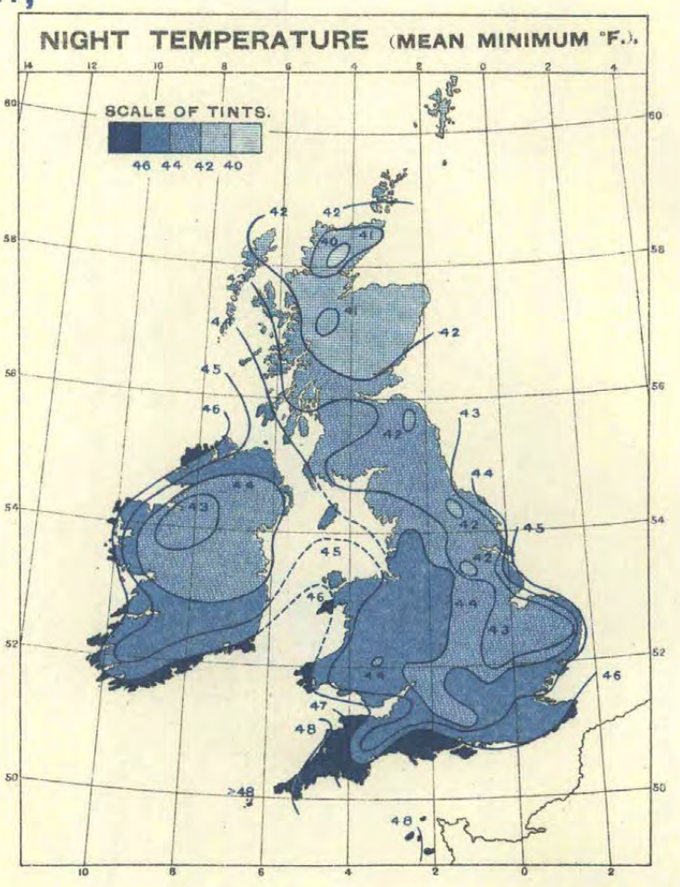
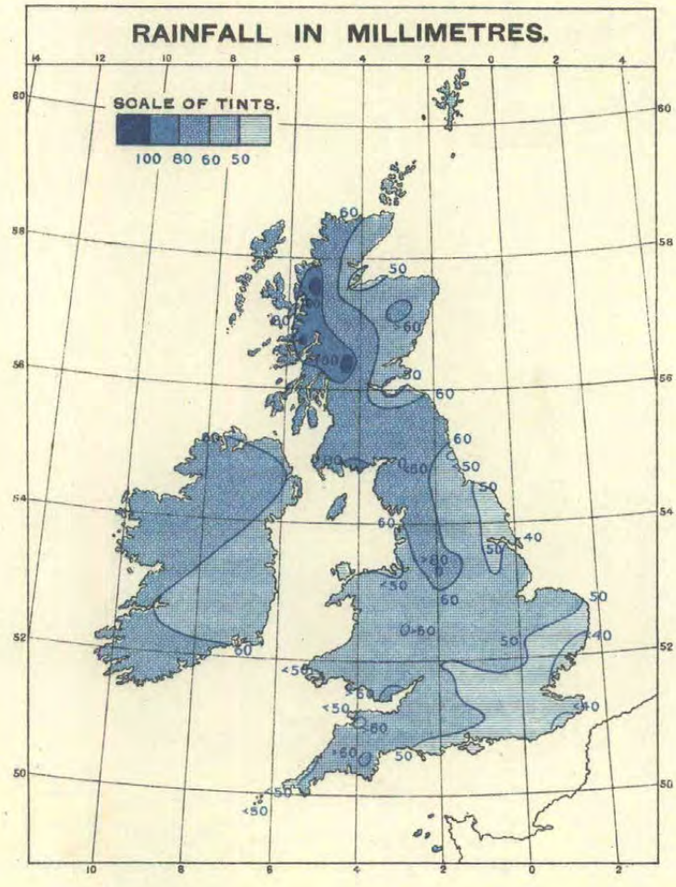
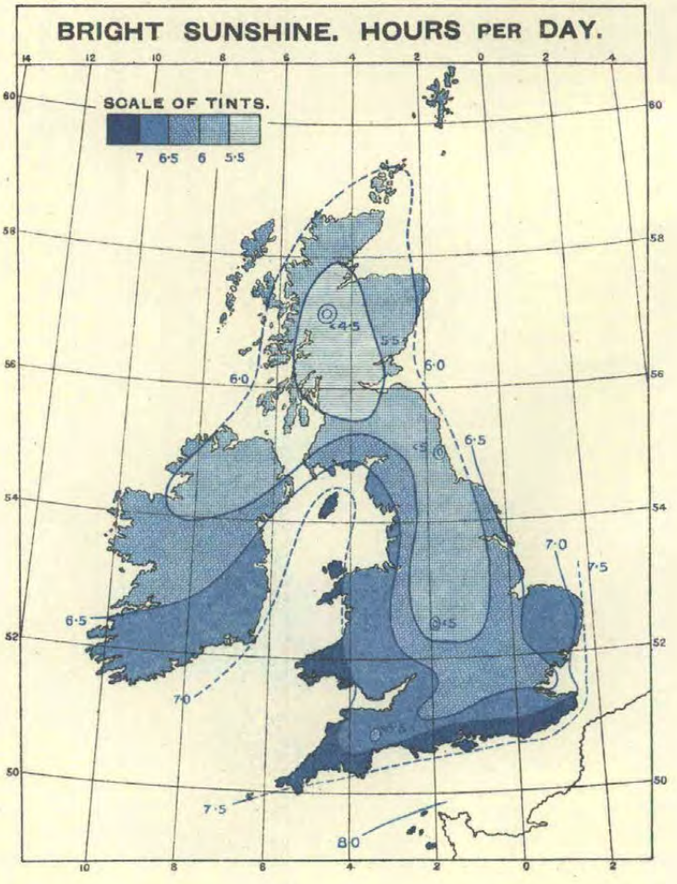
MAY,









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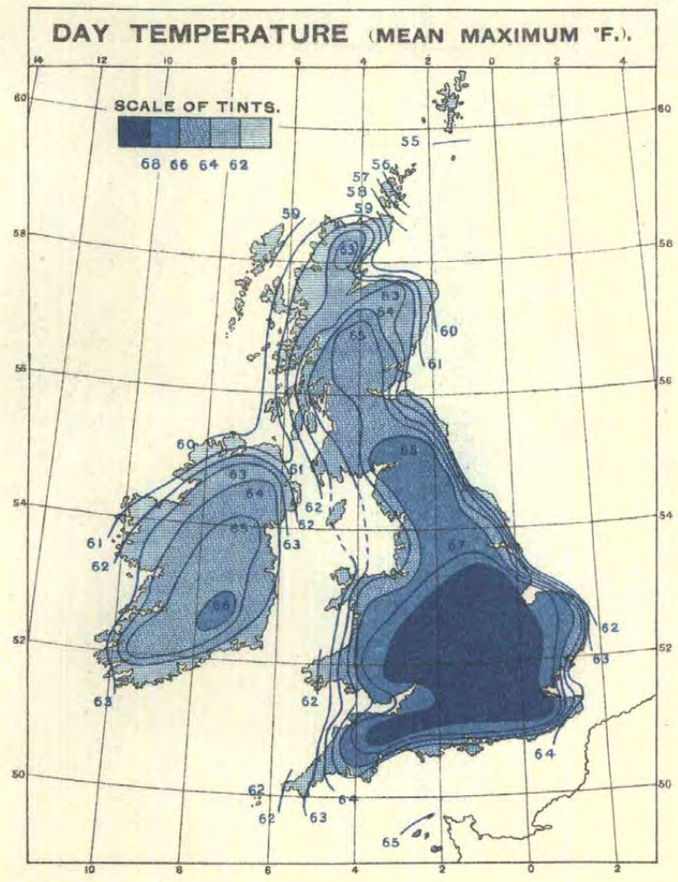
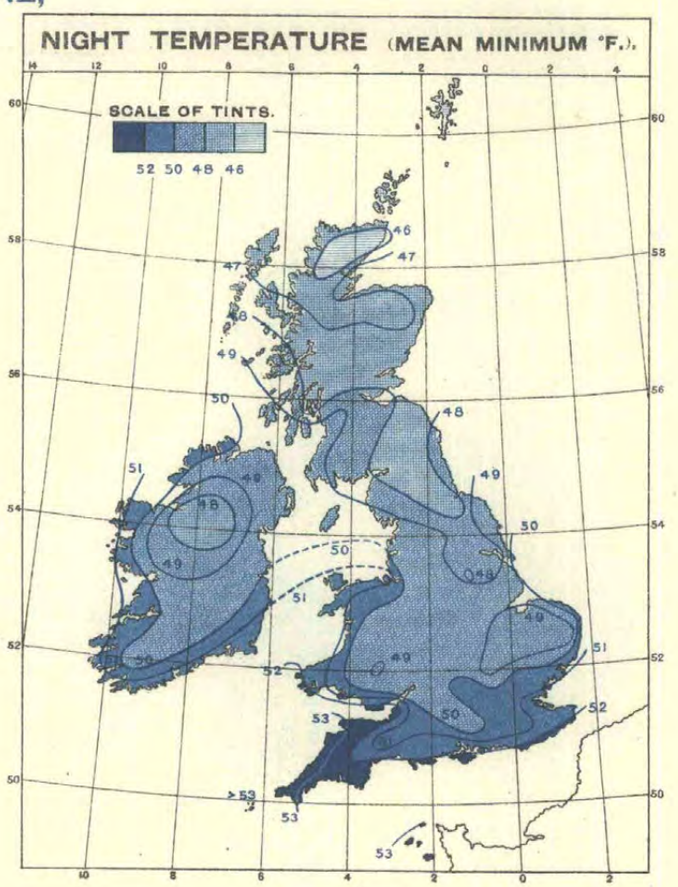
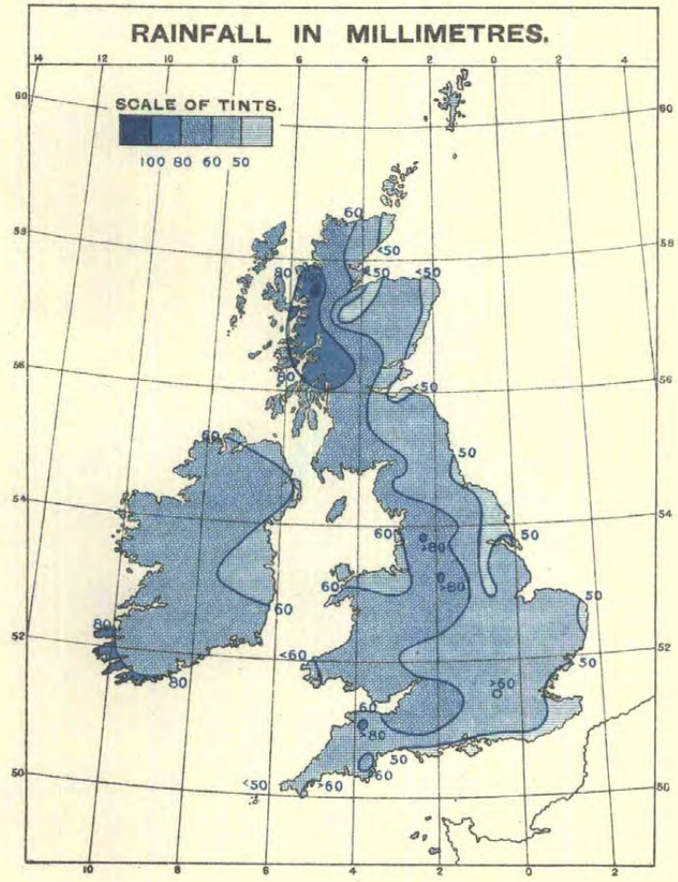
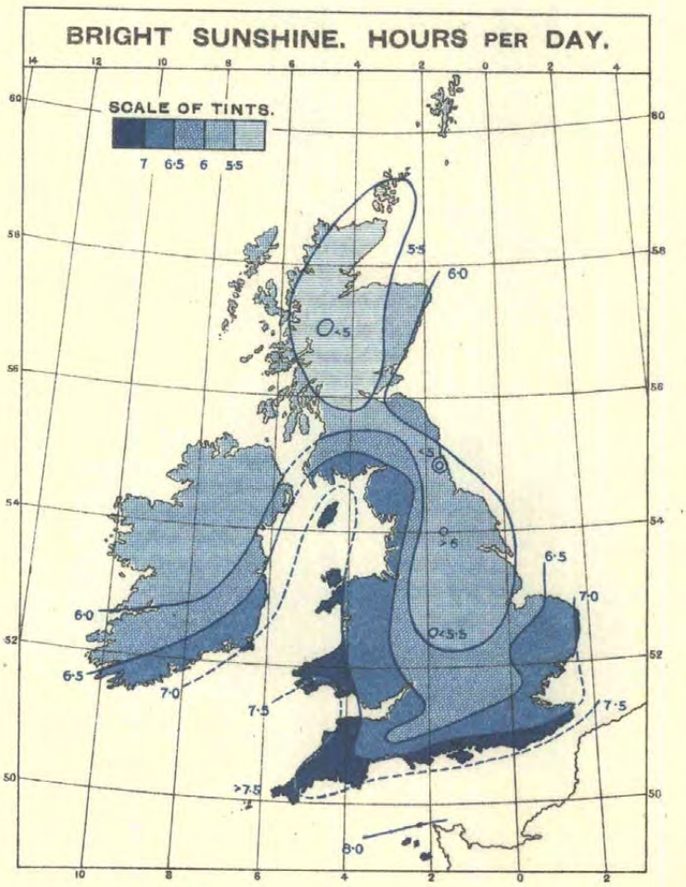
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

JUNE,









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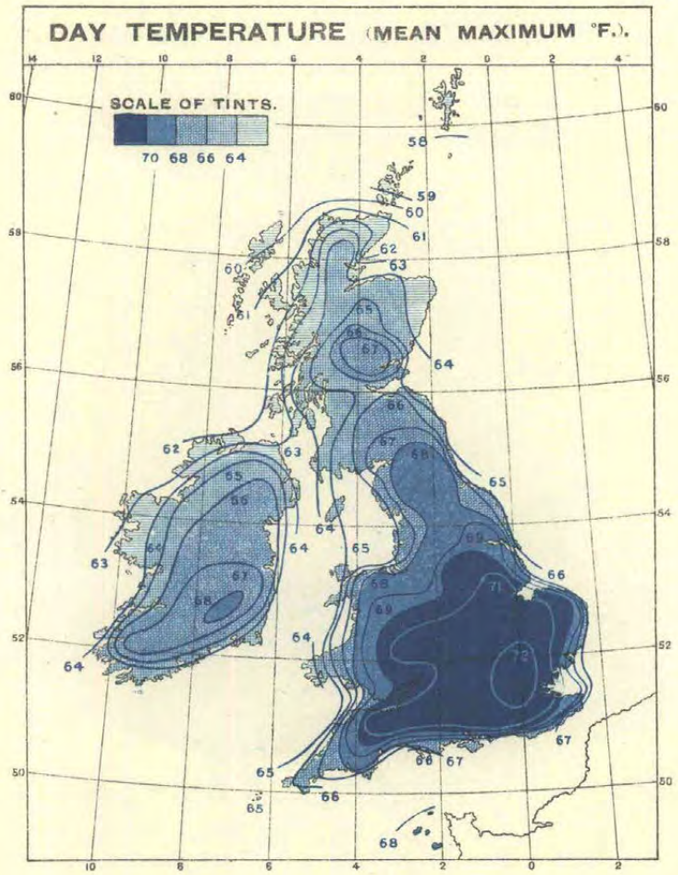
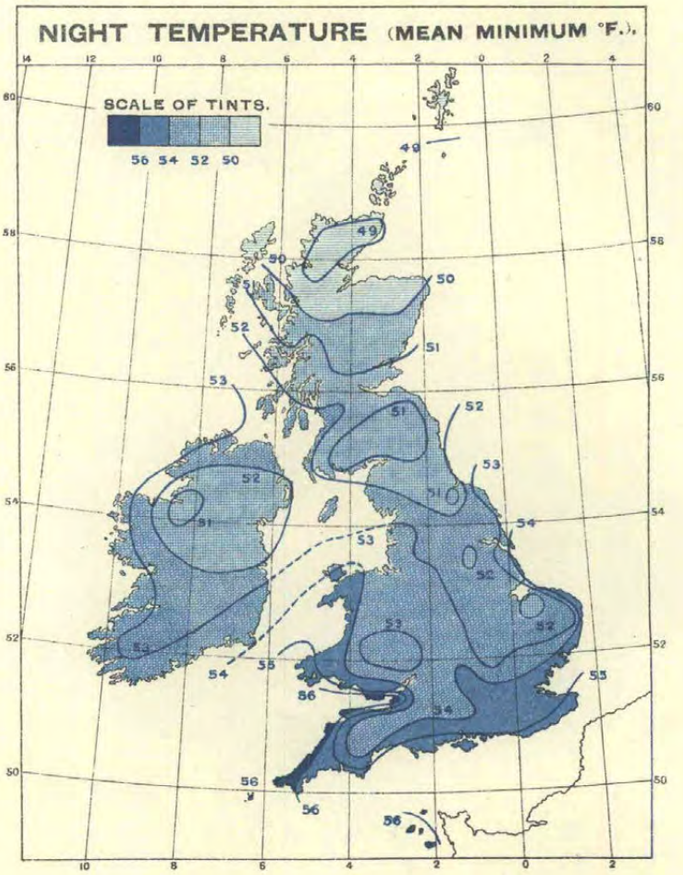
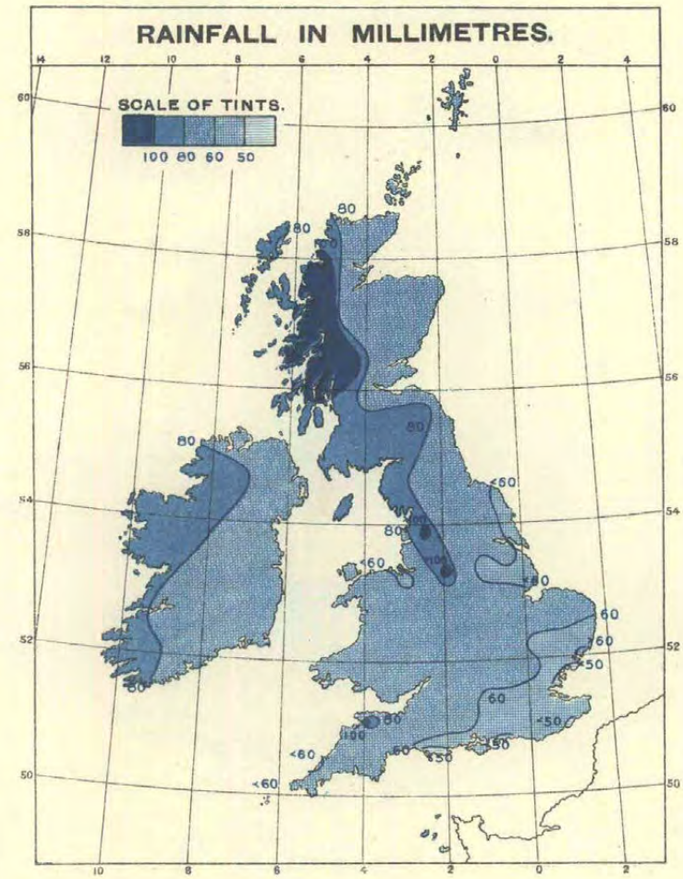
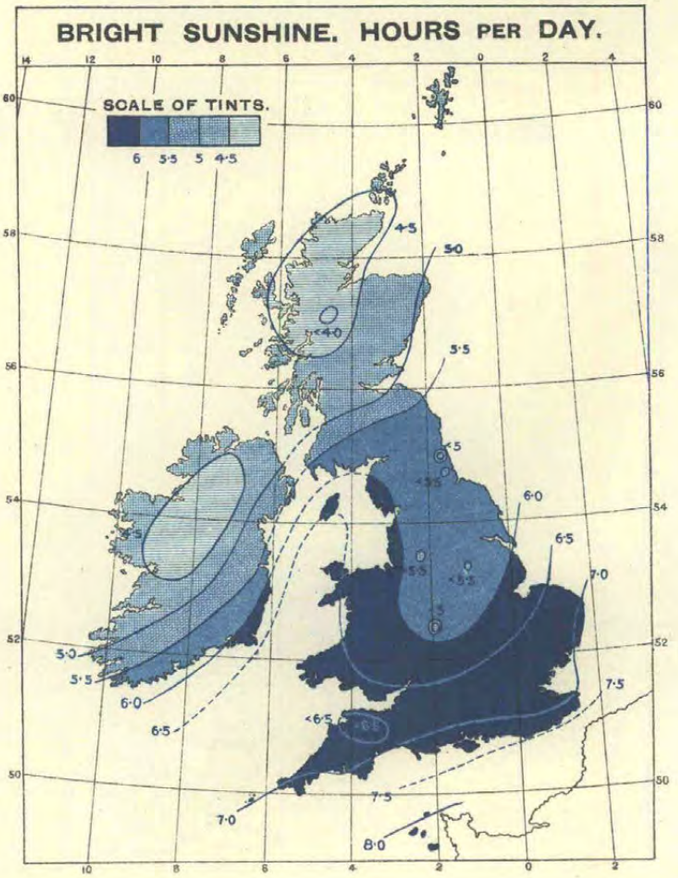
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

JULY,









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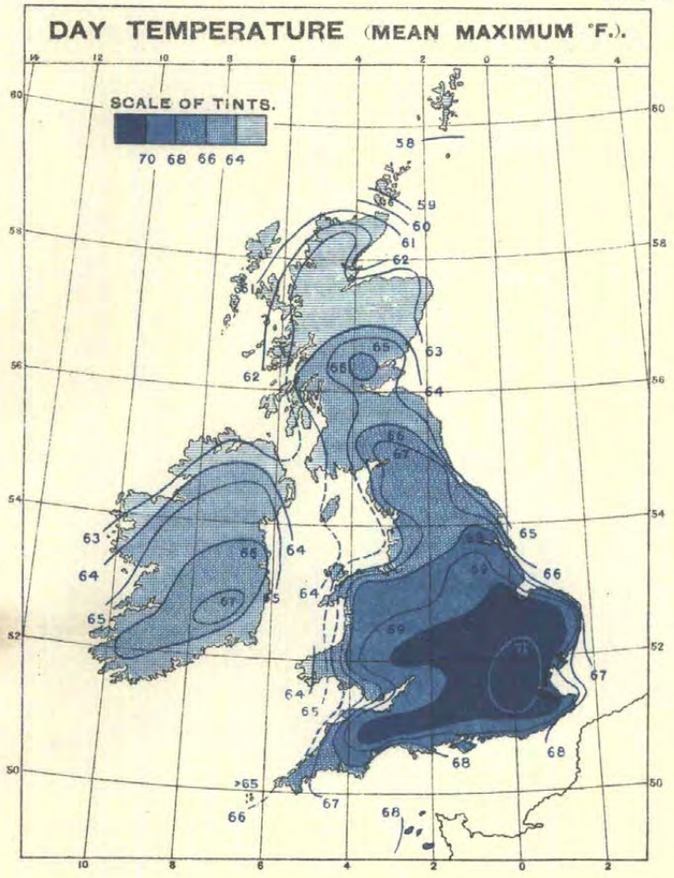
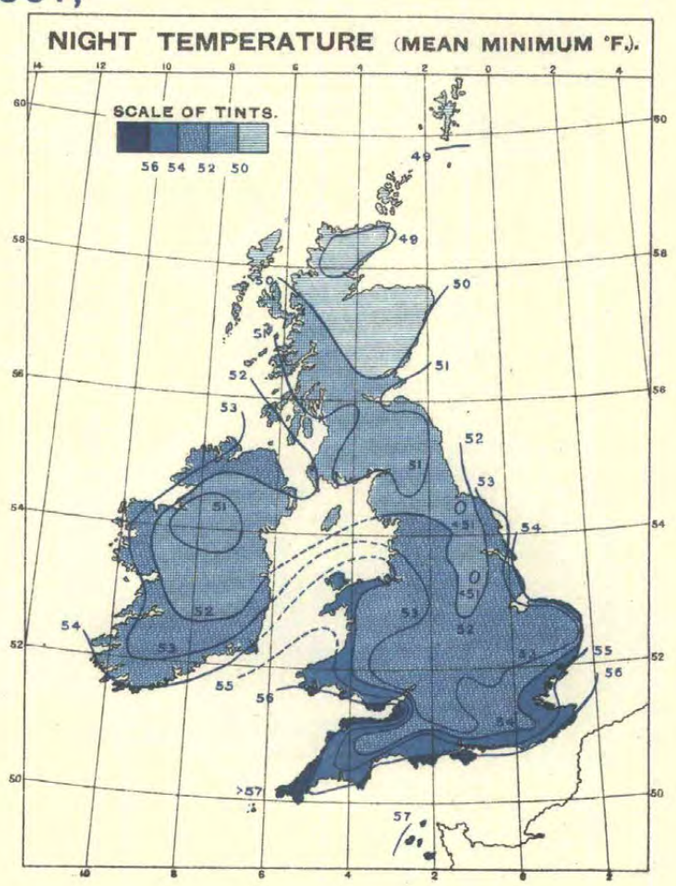
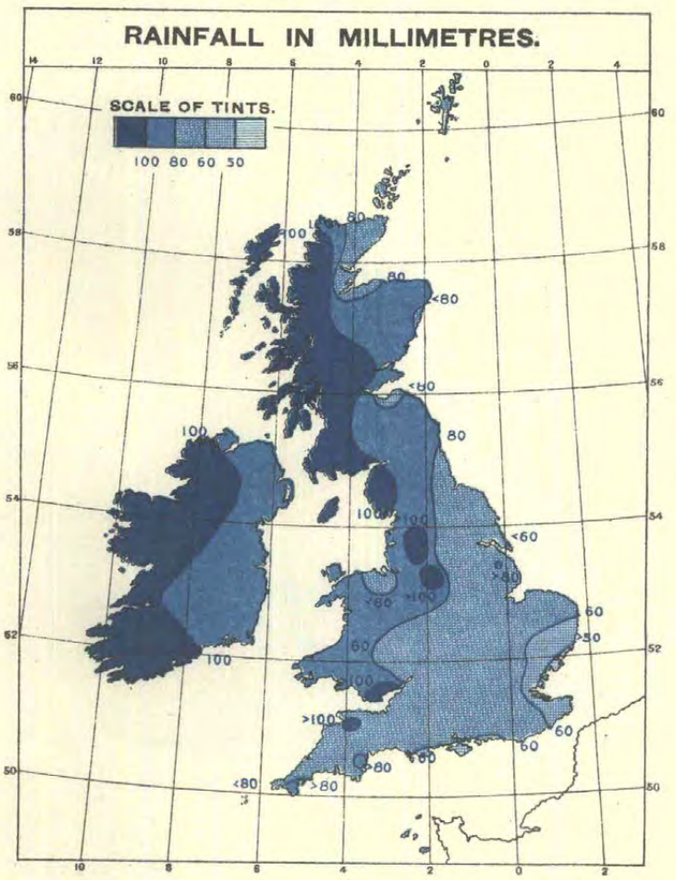
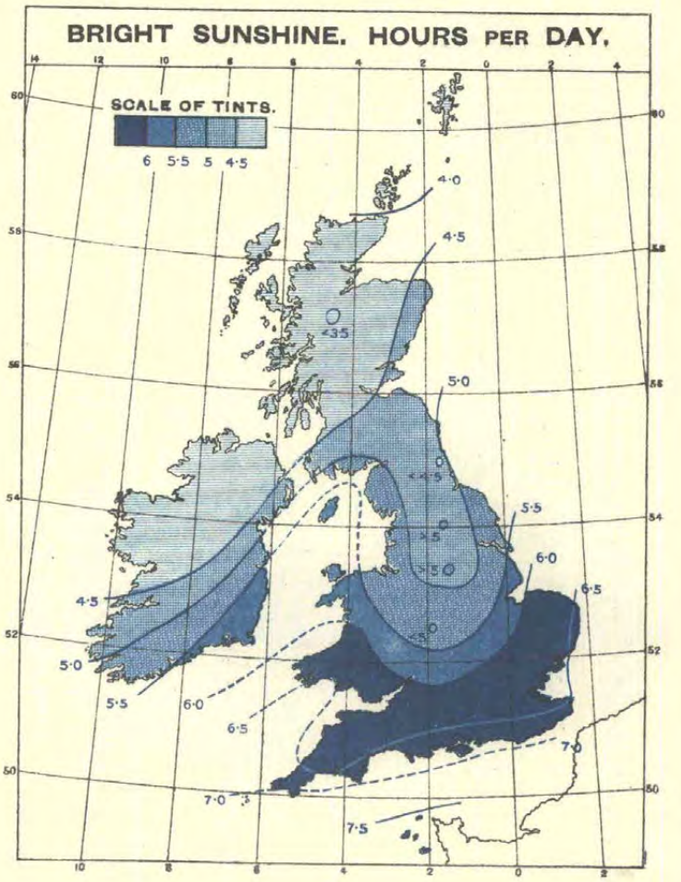
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

AUGUST,









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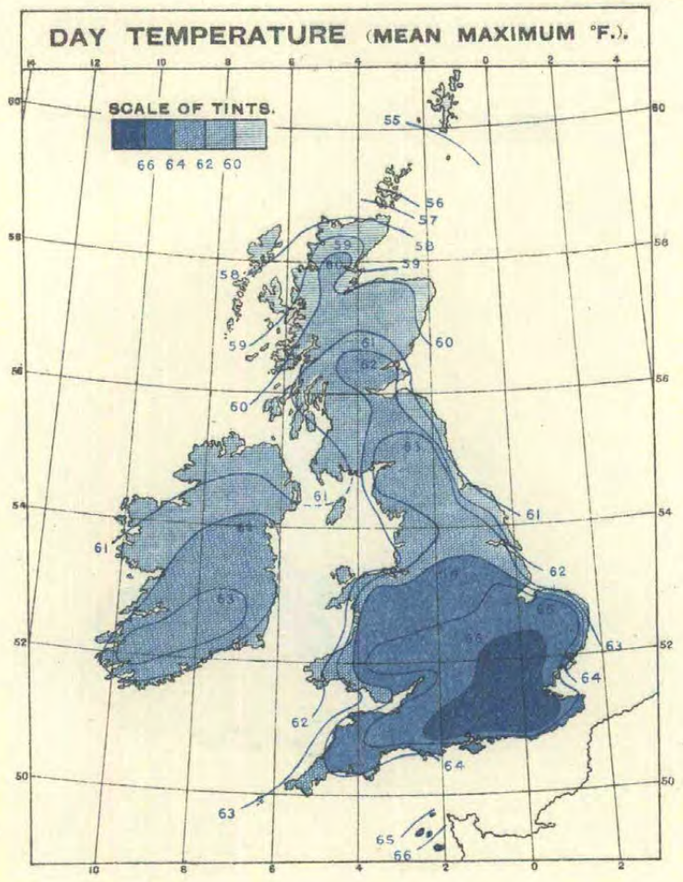
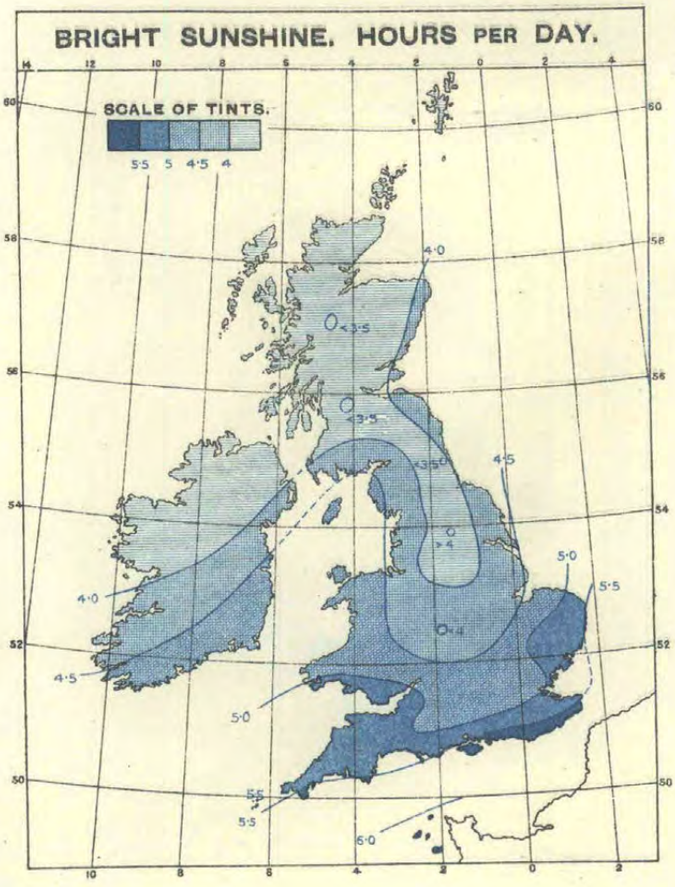
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

SEPTEMBER.





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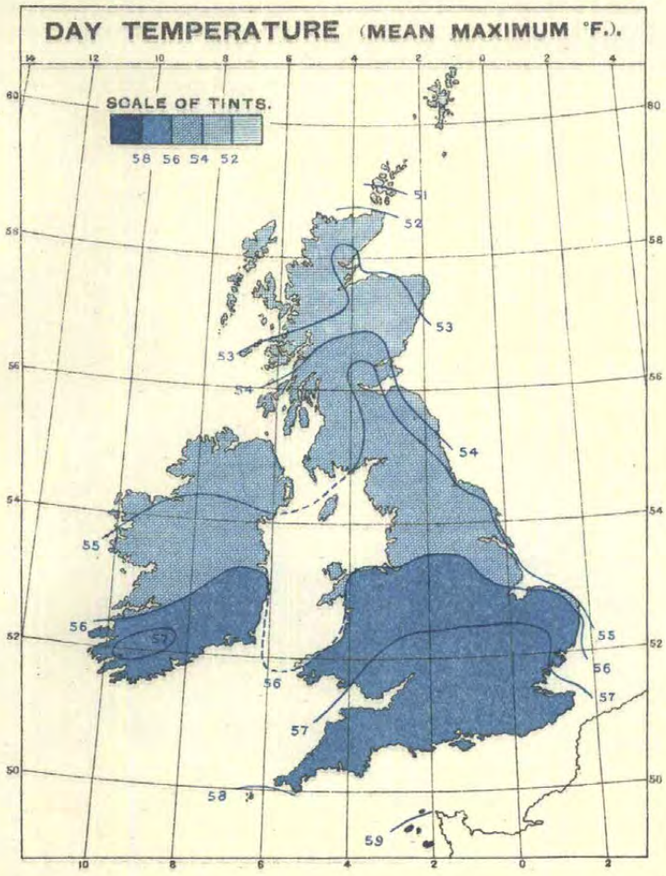
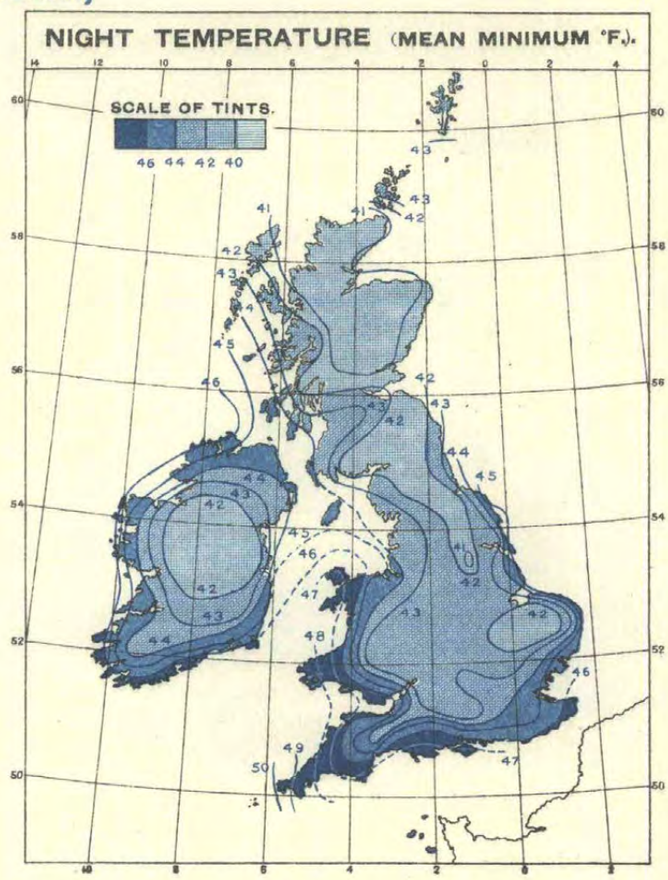
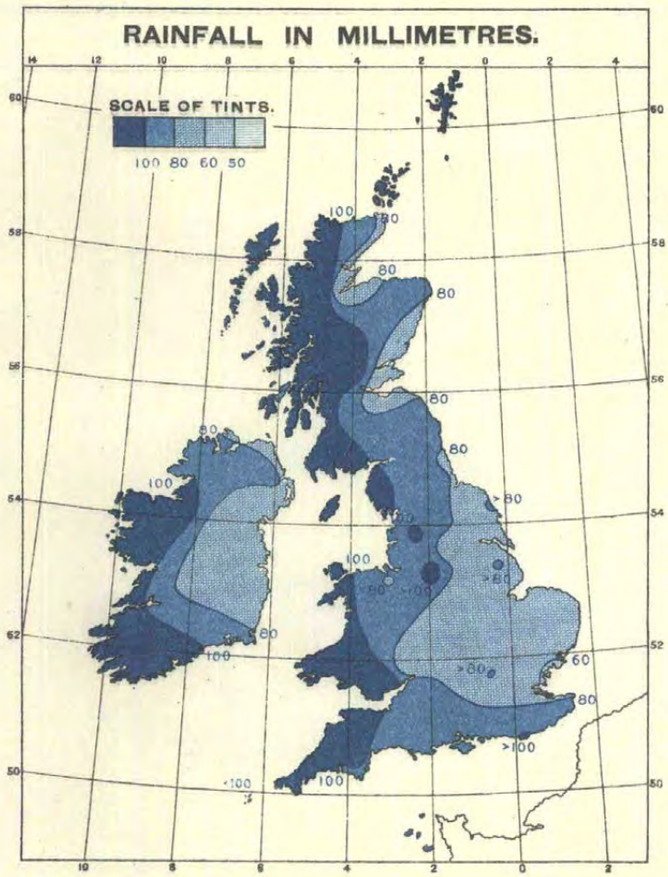
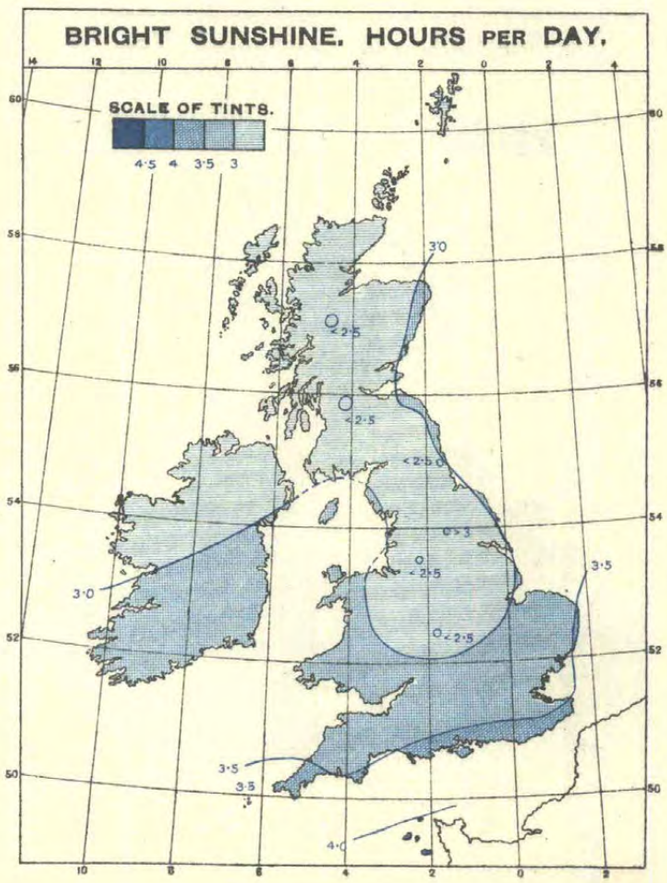
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

OCTOBER,









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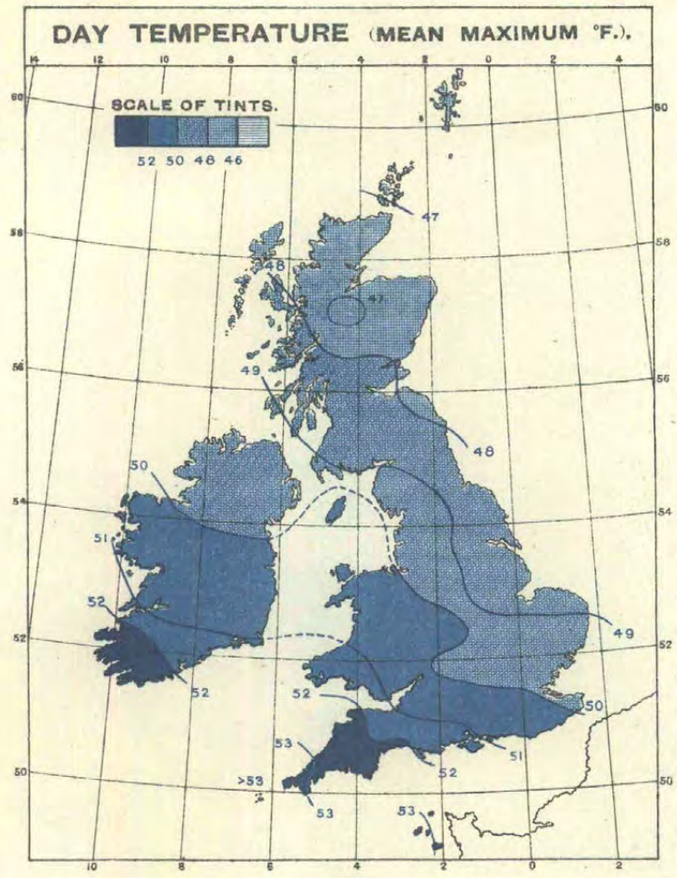
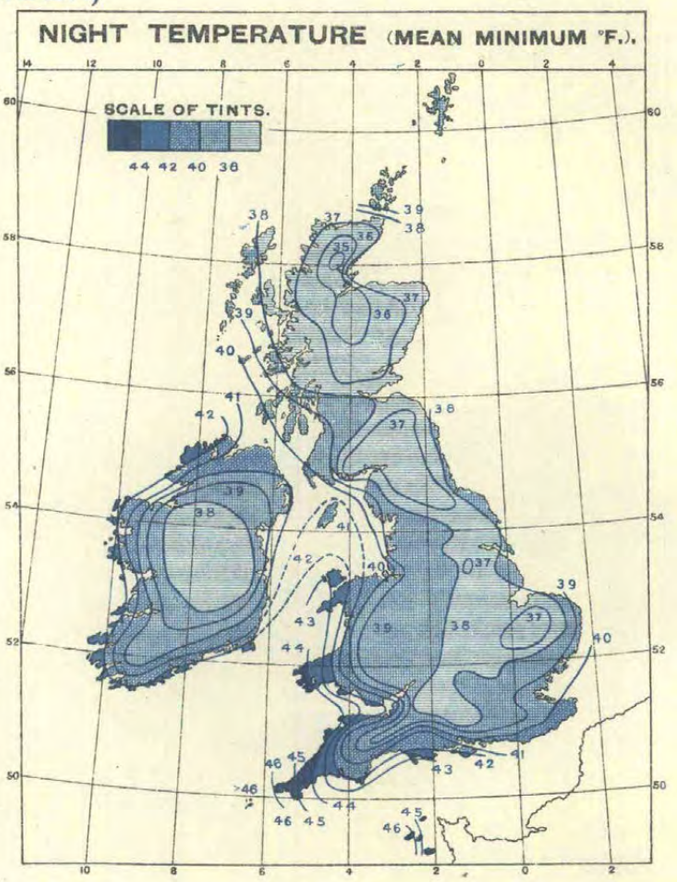
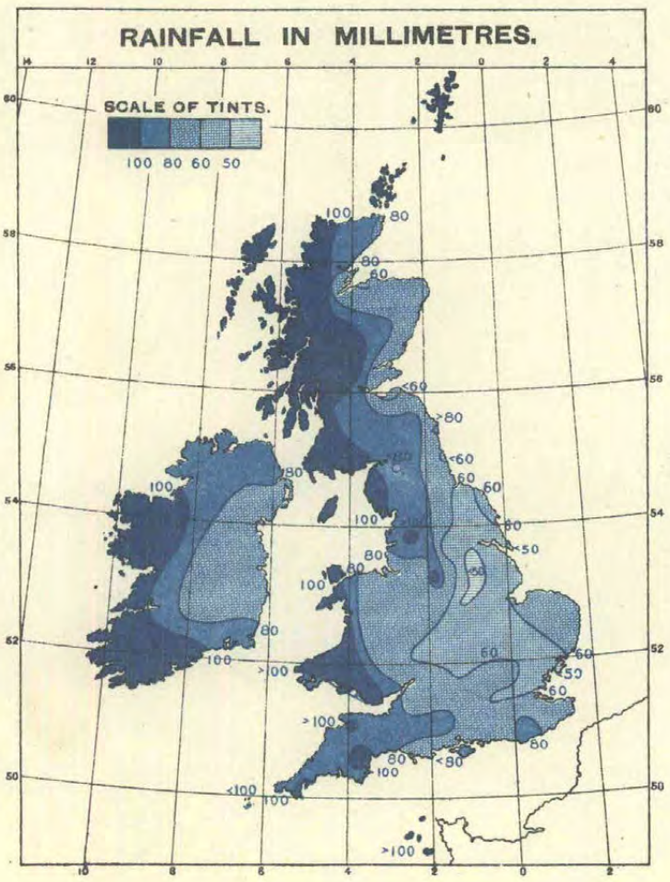
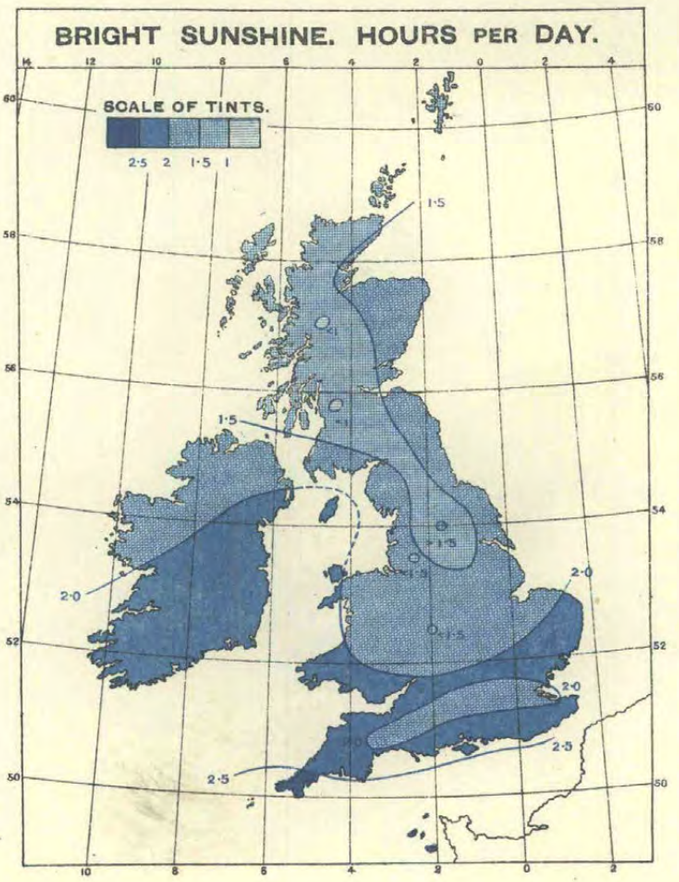
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

NOVEMBER,









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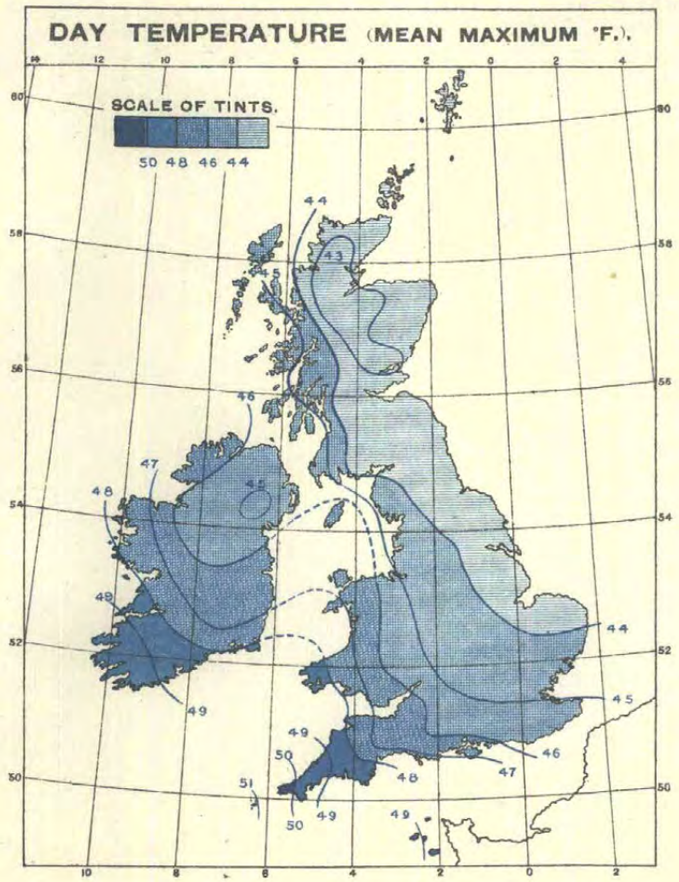
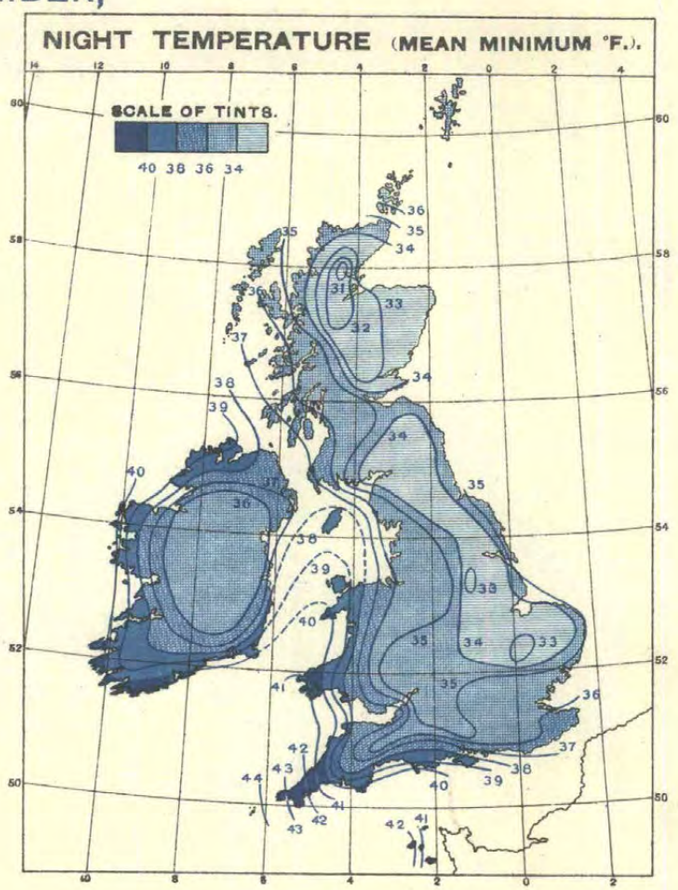
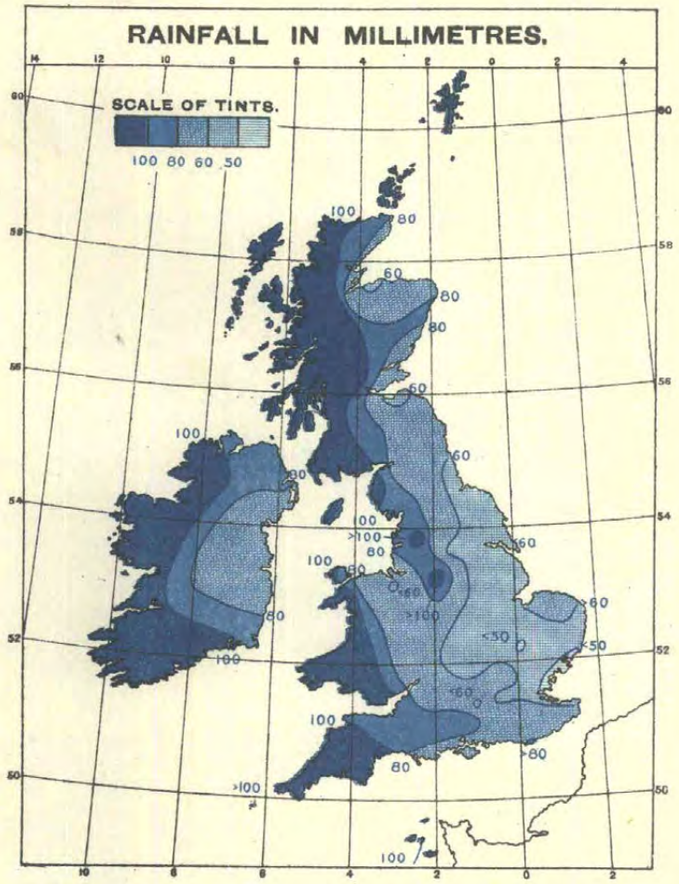
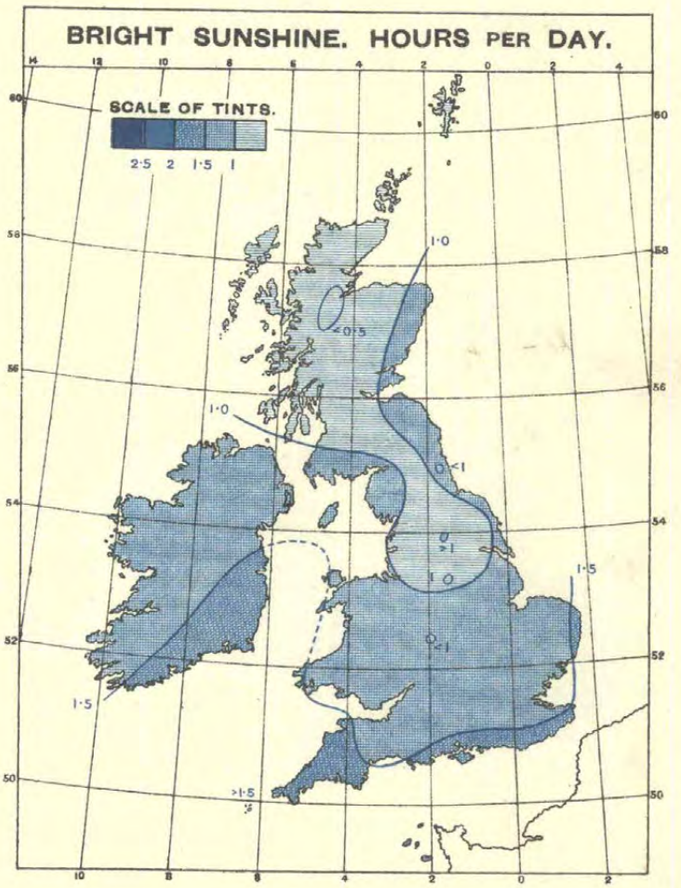
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

DECEMBER,









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S.O. 13159 196. 340/786. 625. 3. 7/14.

Map showing the Positions of the Stations and the Elements for which Averages are given.

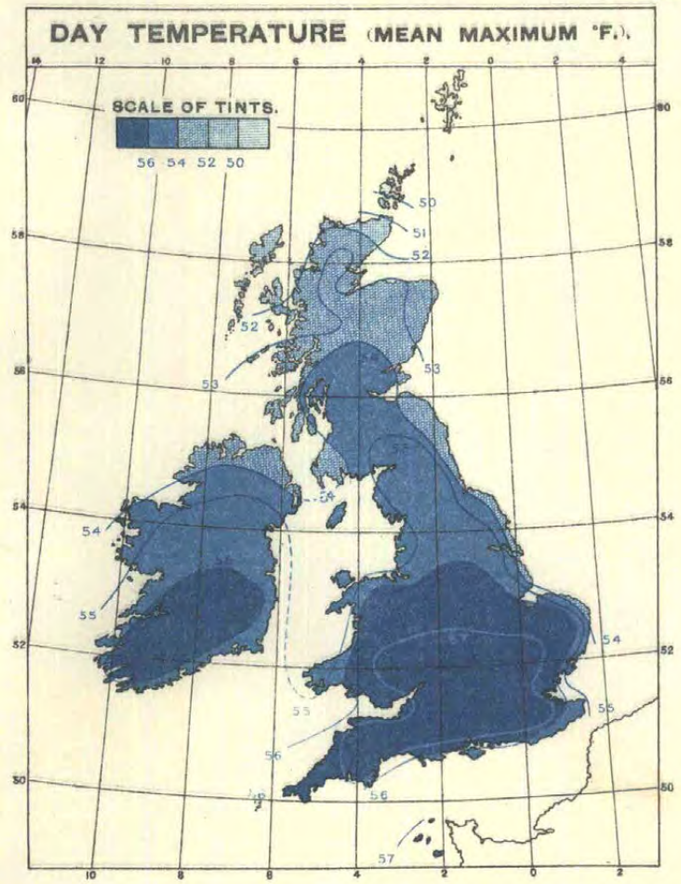
Scale 1 : 5,000,000.

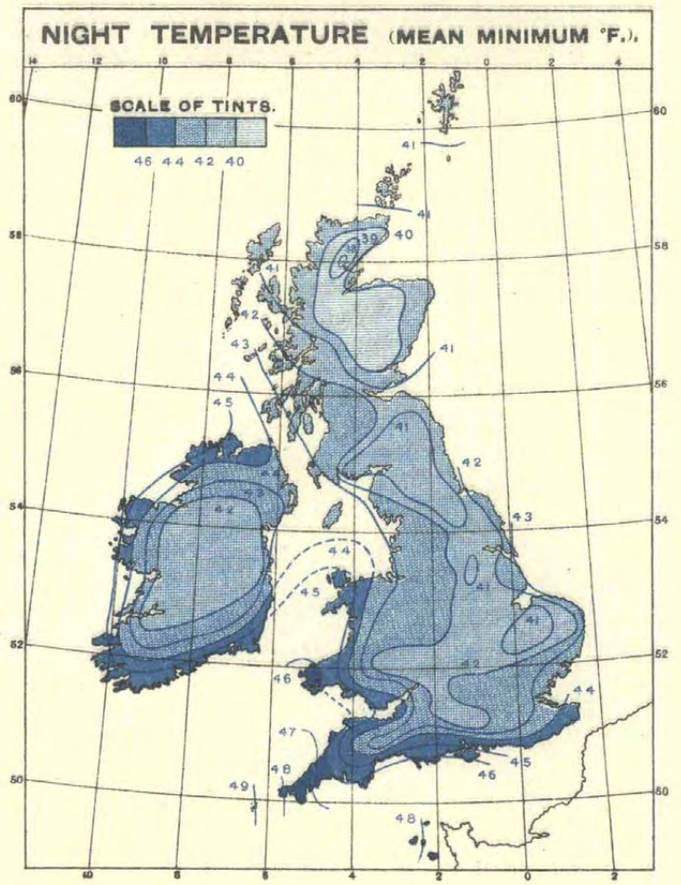
S.O. 13159. 186. 340/786. 625. 3. 12/14.

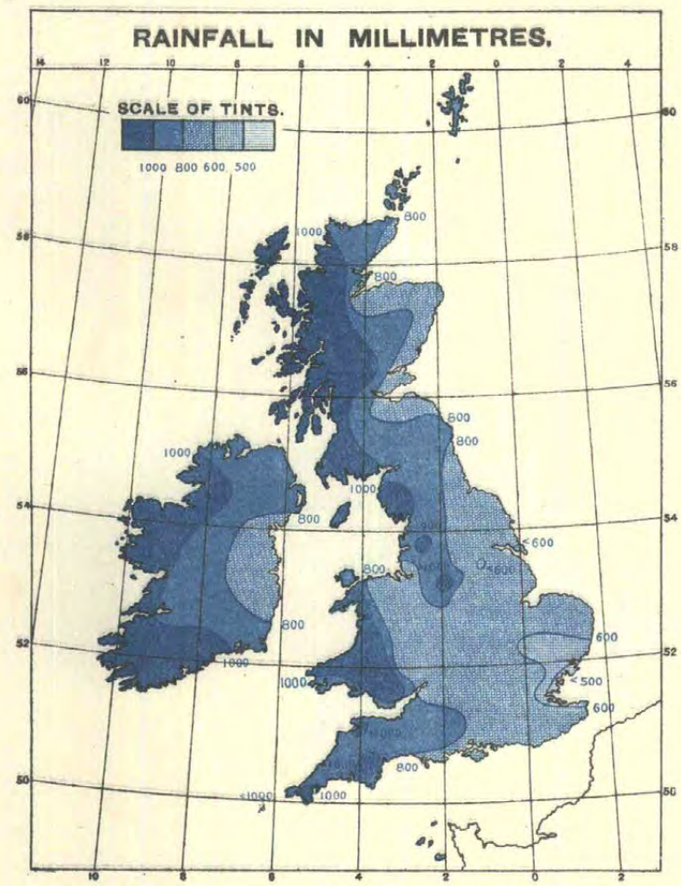
Wyman & Sons, Ltd., Litho. M.O. Press, London, S.W.

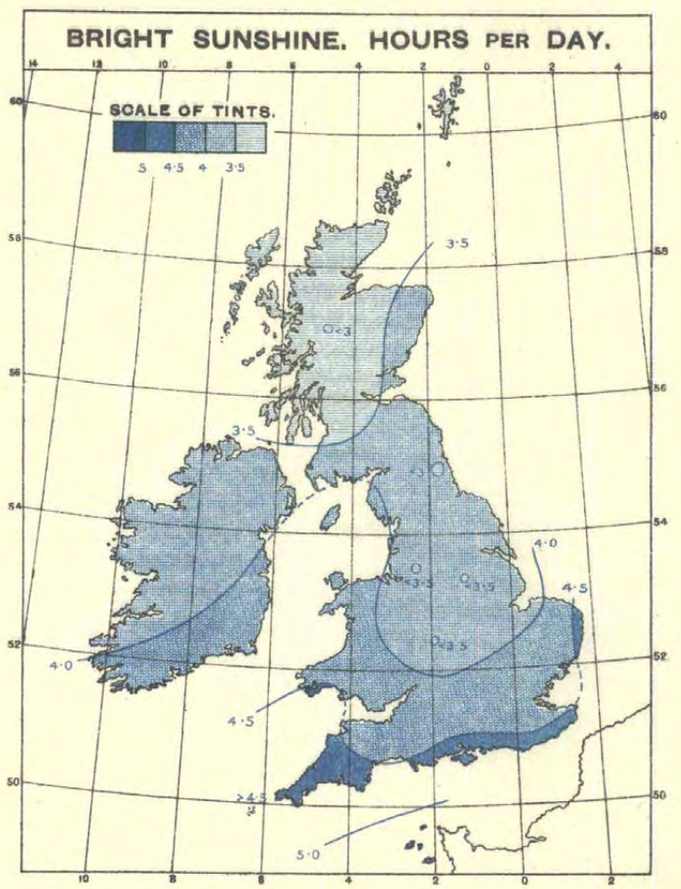
MONTHLY MAPS OF TEMPERATURE, RAINFALL (1876-1910), AND SUNSHINE (1881-1910).

ANNUAL.







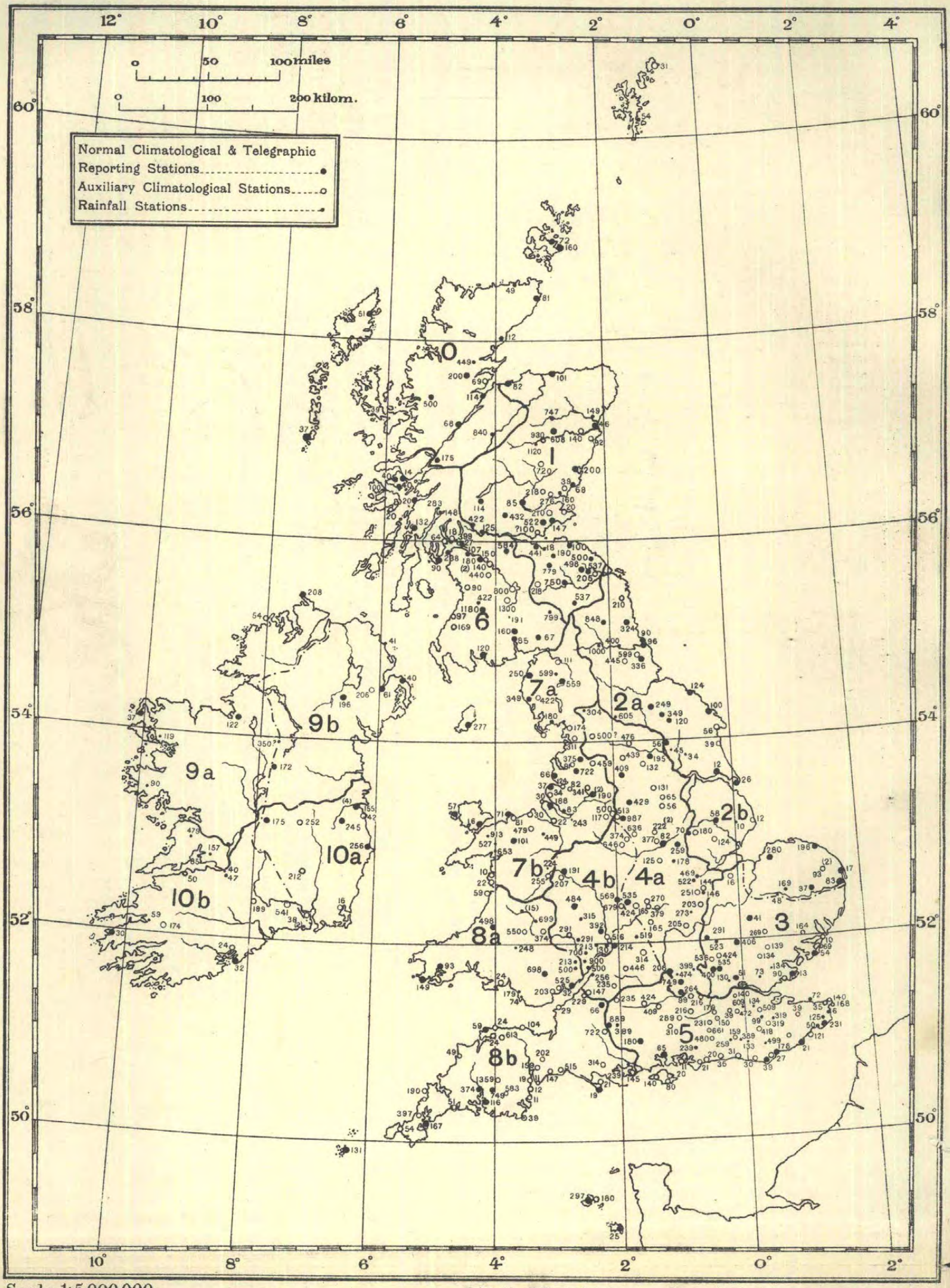


WYMAN & SONS, Ltd., Litho. M.O. Press, London, S.W.

S.O. 13158 196. 340/786. 625. 3. 7/14.

MONTHLY WEATHER REPORT 1913.

Map showing Positions of Climatological Stations.



Scale 1:5,000,000.

Printed by Malby & Sons from transfer supplied by Ordnance Survey, Southampton 1914.

The heights of the stations above Mean Sea Level are inserted against the positions, and will serve to identify the names of the stations as given in the List of Stations on pp. 26 to 46. The Stations in the London District are not all shown. Figures in brackets indicate the number of Rainfall Stations in the vicinity of the dot.

3178. 1375. 9. 14.

M.O. 214b.

METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1913.

PART II.

THE

MONTHLY WEATHER REPORT

FOR THE YEAR

1913

ISSUED AS A SUPPLEMENT TO THE

WEEKLY WEATHER REPORT

(VOL. XXX.–NEW SERIES).

Published by the Authority of the Meteorological Committee.

PREFACE.

The Monthly Weather Report is issued as a supplement to the Weekly Weather Report and is included in the subscription to the latter. The Report gives a resumé of the observations from stations in the British Isles dealt with each month at the Meteorological Office, and takes the place of the summaries printed up to the end of 1907 in Parts II. and III. of the annual volumes of "Observations at Stations of the Second Order" as well as the old "Monthly Summary" to the Weekly Weather Report. Monthly Summaries for a number of additional stations will be found in the Journal of the Scottish Meteorological Society. The summaries given in the latter are also printed in the Quarterly Reports of the Registrar General for Scotland. The Meteorological data in the Quarterly Reports of the Registrar General for England and Wales and for Ireland are compiled from the data used in the Monthly Weather Report. Additional information as to rainfall is to be found in the annual volumes of "British Rainfall."

The observations on which the statistics are based have been carried out on a uniform plan, and the results form a homogeneous series as far as that is possible. Particulars of the methods adopted in taking the observations are given in the "Observer's Handbook," M.O. 191. Attention is here drawn to the fact that a change was made at the commencement of 1906 in the method of computing the number of days of gale. Up to the end of 1905 wind-force 7 on the Beaufort scale was regarded as the lower limit for a "gale" but in January, 1906, when a revised scale of velocity equivalents of the Beaufort numbers was brought into use, force 8 was adopted for this limit in order to bring the results into conformity with the uninterrupted practice of the Office in relation to the service of storm warnings. At stations for which summaries were supplied by the Royal Meteorological Society up to the end of 1911 (marked ℜ in the reports) the number of days of gale are computed with reference to force 8, but the results are based on observations at 9 a.m. and 9 p.m. only, whereas at other stations a "day of gale" is one on which a wind of force 8 or above occurred at any time during the 24 hours. Another break in continuity was introduced by the change in the hour of morning observations from 8 a.m. G.M.T. to 7 a.m. at telegraphic reporting stations on July 1st, 1908. At normal climatological stations the hours 9 a.m. and 9 p.m. have been adhered to.

Monthly Summaries for Years 1869 to 1912.

Monthly summaries of observations made at stations in connexion 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.

Stations of the Second Order. (*Normal Climatological Stations.*) A permanent Meteorological Committee was appointed by the Congress of Official Delegates which met in Vienna in 1873, and at a meeting held in Utrecht in 1874 prescribed an international form for the publication of observations from Stations of the Second Order. Summaries in this form have been published for each year from 1873 to 1907 in the annual volumes of "Observations at Stations of the Second Order." For the years 1873 to 1876 these volumes formed an appendix to the "Quarterly Weather Report." For the years 1876 to 1880 inclusive the summaries were printed month by month in the Quarterly Report, and also in the annual volumes referred to above. The summaries since 1908 have been printed in the Monthly Weather Reports.

Telegraphic Reporting Stations. Summaries of the observations at the hour of morning observation (8 a.m. G.M.T.) at these stations were published in international form for the years 1876 to 1880 inclusive in the "Quarterly Weather Report." The corresponding summaries for the years 1881 to 1883 (inclusive) have not been issued. In 1888 the Monthly Weather Report was merged in the Weekly Weather Report to which it formed a supplement (Monthly Summary).

The Monthly Weather Report began in *1884* at the time of the increase in size of the Weekly Weather Report. It contained then (1) a short summary of the weather for each of the periods into which the month could be divided according to the type of pressure distribution; (2) a tabular statement relating to cyclonic and anti-cyclonic system; (3) remarks under separate headings, Pressure, Movement of Depressions, Anticyclones, Winds, Temperature, Vapour, Rainfall, and Bright Sunshine; (4) a tabular summary of the observations of pressure, temperature, rainfall, wind and weather at 30 telegraphic reporting stations. The table contained for *pressure* means at 8 a.m. at Mean Sea Level; for *temperature* means at 8 a.m.; means of daily maximum and minimum readings, and means of the two combined; as well as the highest daily maximum and the lowest daily minimum and the dates of occurrence; for *humidity* the means of vapour pressure and relative humidity at 8 a.m.; for *cloud* the mean amount at 8 a.m.; for *rainfall* the total fall and the greatest fall in one day with the date; for *weather* the number of days of rain, snow, hail, thunderstorm, clear sky, overcast, and gales; and for *wind* the number of observations (at 8 a.m.) for each of the eight principal directions and the number of calms; (5) a shorter summary of temperature, rainfall and sunshine at 35 stations of the Weekly Weather Report not included in (4). The information for temperature and rainfall was the same as in (4), but mean temperature at 8 a.m. was not available, and the number of rain days was included under rainfall: for sunshine, the number of hours and the percentage of the possible duration was given. Four small charts showed the distribution of pressure, temperature, and rainfall and the movements of depressions, while a large chart showed wind-roses for twelve stations. Twelve parts only were issued, and no Annual Summary was published until 1903.

In *1888* the title of the report was changed to the Monthly Summary (Supplement to the Weekly Weather Report). The large wind chart was discontinued, wind being shown on the small pressure chart. The tabular statement relating to cyclones and anticyclones was omitted.

In *1891* the difference from average for mean pressure, mean temperature, total rainfall and total and percentage duration of sunshine were given in the table in which values for these elements were published. The averages were for 20 years, 1871–1890, but for rainfall, 25 years, 1886–1890, and for sunshine, 10 years, 1881–1890. The number of stations in the second table had increased to about 50.

In *1896* new averages for the 25, 30, and 15 year periods ending with 1895 were issued.

In *1898* a table of sunshine at 23 additional stations was included.

In *1901* new averages for the 30, 35, and 20 years ending with 1900 were used.

In *1902* the Supplement was increased from 6 to 8 pages and values for a few normal climatological stations (18) were included in the table of full summaries, while the table of sunshine at additional stations was merged in the second table.

In *1903* an annual summary was issued giving results for the whole similar to those for each month contained in the monthly issues.

In *1904* the number of stations had increased to 55 in Table I. and to over 90 in Table II. ; but for several of these rainfall only or sunshine only was given. In April of this year the normal distribution of pressure for the month was first shown on the pressure chart.

In *1906* the height of the barometer above M.S.L. was given in Table I., and the values of pressure were obtained from the morning and evening observations instead of from the morning only ; the summary of wind direction was also based on both morning and evening observations, and where only one observation was made each day the numbers were multiplied by 2 to get comparable figures ; under hygrometry the depression of the wet-bulb was added, and the values derived from the evening observations were published in addition to those derived from the morning observations ; mean values of the temperature of the ground at depths of 1 foot and 4 feet were given for a number of stations, and the number of days of fog and the number of observations of moderate or strong winds were also included. The amount of cloud in the evening was added.

Previous to 1906 days of gale were those on which an observation of Force 7 or more on the Beaufort Scale was recorded : for anemograph stations this was taken to be a wind of 37 miles per hour or more. In the case of Robinson instruments of standard size the factor used at that time gave velocities too high in the ratio 3·0 to 2·2, and the actual velocity corresponding with a recorded velocity of 37 miles per hour would be only 27 miles per hour. This corresponds roughly with the lower limit of what are now known as strong winds, winds of 25 miles per hour or more. It does not, however, follow that the winds as estimated by observers in the earlier years were relatively so low ; there has been a definite change in the table for conversion of anemograph records to Beaufort numbers, but it is improbable that there was a corresponding definite change in the criteria upon which observers based their personal estimates.

In *1907* the Report was enlarged and the number of stations for which complete summaries were published was increased during the year from 55 to 110 ; the summaries for the additional stations had previously been published in the Annual Volume of Observations at stations of the Second Order. A small chart of rainfall showing the isohyets, prepared by Dr. H. R. Mill of the British Rainfall Organization, was substituted for the map with values at individual stations inserted on it which had previously appeared.

In *1908* the preface to the Monthly Report was separated from that to the Weekly Report, and several important alterations were made in the monthly issues. The small chart of rainfall was replaced by a full-page chart, and a small chart showing the distribution of bright sunshine was introduced. The varying intensity of rainfall in different regions was indicated by differences in shading. In addition "District Values" for the month corresponding with those for the week given in the Weekly Report were given in the table of summaries. A column giving the numbers of nights during which ground frost occurred was added under "Weather." In this year the hour of observation at Telegraphic Reporting Stations was changed from 8 a.m. to 7 a.m. on July 1st.

In *1909* the table of full summaries was enlarged to include values of humidity and cloud at the mid-day hour of observation (1 p.m. or 3 p.m.). The mid-day observations of wind were also included in the summaries which gave strictly the number of observations. For the 31 day months the numbers are 31, 62 or 93 according as the observations were made once, twice or thrice a day. Previously the numbers had been reduced since the year 1906 by multiplying by 2 the results from stations at which observations were made only once a day. A column was also added to the table giving the amount of the correction for diurnal range required to reduce the means of pressure at the fixed hours to true daily means.

In *1910* the charts were coloured blue, different tints being used to illustrate the distribution of the element concerned, in the case of rainfall, temperature and bright sunshine.

In *1911* the summaries of wind were adjusted by multiplying by 3 and by $\frac{3}{2}$ the actual number of observations at stations observing only once a day and twice a day respectively, so that the published " number of observations " for each station was 93 or 90 (84 for February), according to the month.

In *1912* various changes were made in connexion with the incorporation in the Report of Statistics from a number of stations which had previously reported to the Royal Meteorological Society only.

In the table of full summaries the changes were briefly :—

(1.) The introduction of a column for the actual hours of observation at each station, which renders unnecessary the variations of type which were used in previous years to indicate differences in this respect.

(2.) The substitution of a column containing the mean pressures at Sea Level *corrected* for diurnal range for the column containing the corrections themselves which was previously published. The values at Station Level correspond as before with the hours of observations at the station to which they refer.

(1696—12.) Wt. 231—611. 1575. 8/14. D & S. G. 17/ 34.

(3.) The substitution of the mean daily duration of sunshine during the month for the total number of hours recorded. The new values are as good as the totals for purposes of inter-comparison, and the irregularity arising from the unequal lengths of the months is avoided. The direct comparison with the duration of daylight and with individual days is made easier.

(4.) Under "Weather" a column giving the number of days on which the rainfall was 0·04 in. (1 mm.) or more has been added.

In the table of climatological summaries for additional stations the columns giving the number of days of rainfall and of ground frost were put with additional columns for snow, hail, thunderstorms, and fog, under the general heading "Weather." In this way a considerable increase in the information given in the summaries was achieved.

The values for the different districts which were previously included in the Table of full summaries were collected together in a single table, and the values for Earth Temperature and extremes of pressure added.

A table was added to the Annual Summary to the Report giving monthly values of rainfall at about 90 additional stations from which observations had been received, but not previously published.

The Monthly Weather Report for 1913.

No changes were made in the general character of the Report during this year but in the Annual Summary additional tables were included showing :—

(1.) The temperature and dates of the warmest night and the coldest day in the year ; the information is supplementary to that given in the principal tables for the coldest night and warmest day.

(2.) The temperature and dates of the warmest night and coldest day for each month for 18 selected stations.

(3.) Tables showing the frequency of occurrence of days and nights with temperatures between given limits, and of days on which the recorded duration of sunshine fell between given limits for each month of the year for 16 selected stations.

General Arrangement of the Report.

The arrangement of each issue of the Report is as follows :—

I. General remarks on the Weather over the British Islands, under a brief heading descriptive of the special characteristic of the month.

II. Summaries, in international form, of observations made at normal climatological stations at 9 a.m. [3 p.m.], and 9 p.m., and at telegraphic reporting stations at 7 a.m., 1 p.m., and 9 p.m., or at 7 a.m., [1 p.m.] and 6 p.m. The international form has been extended to include information regarding the duration of bright sunshine, earth temperature at 1 foot and 4 feet (from 1906), the number of observations of fresh or strong winds (forces 4–7 of the Beaufort Scale from 1906), the number of days of fog (from 1906), the number of days of ground frost (minimum temperatures on the grass, 30° and below, from 1908), and the mean value of the pressure at Mean Sea Level (1912). The differences from the average in the case of pressure, temperature, rainfall and sunshine are included for those places for which averages are available.

III. Abridged summaries of extremes of temperature, rainfall, sunshine, earth temperatures, grass minimum temperatures, and weather phenomena for auxiliary climatological stations, together with differences from the average where averages are available.

IV. A plate of four maps showing :—

i. The monthly distribution of pressure and winds based on the morning observations at telegraphic reporting stations ; also the average distribution of pressure for the month for the period 1871–1905.

ii. The movements of depressions.

iii. The distribution of mean temperature over the land and in the coastal waters.

iv. The distribution of bright sunshine. This map was added for the first time in the issue for 1908.

V. A full page map showing by means of isohyetal lines the distribution of the month's precipitation. These maps are prepared by Dr. H. R. Mill, the Director of the British Rainfall Organization, and are based on data from nearly 1,000 stations.

VI. Summaries for the twelve districts of the temperature of the air, rainfall and duration of bright sunshine based on observations at the stations of the Weekly Weather Report. Summaries of the amount of cloud, and of the temperature of the earth and the extreme values of pressure are also included.

The stations from which the District Values of Temperature and Rainfall are computed are indicated by the symbol ‖ and the corresponding stations for Sunshine by the symbol §. These stations are distributed between the two tables of summaries for individual stations. There were two changes in the stations in District 5 during the year. The station at Swarraton was discontinued during March, and records from Salisbury (Wilton) were used for District Values in this Report from June. The observations at Tunbridge Wells ceased at the end of March, and had not been recommenced at the end of the year. Taking the averages as a basis, the effect of the omission of the values for Tunbridge Wells would be slightly to diminish the district values of rainfall while the substitution of Salisbury for Swarraton would slightly increase them. For temperature and sunshine the effect of the changes in the district values would be very small.

In District 6 the observations published each month up to April for Glasgow refer to the University Observatory; the values for subsequent months refer to Springburn Park. The Monthly Summaries from May to the end of the year are given below (p. ix*b*). Throughout the year the Observatory readings were used in the computation of Weekly and Monthly District Values.

VII. Additional values of sunshine and rainfall for a few stations not included in the general tables.

VIII. Notes explanatory of the methods used in dealing with the observations for the preparation of the statistical tables.

List of Stations.

The Stations included in the Monthly Weather Report and in the Weekly Weather Report are shown in the following list, arranged under the Districts. The positions of the stations may be identified on the accompanying map by the numbers which give their heights in feet above the Mean Sea Level.

Height above Mean Sea Level.—The figures given in this column refer, in general, to the height of the ground on which the rain gauge stands. At Sunshine Stations which do not possess a rain gauge, the height refers to the sunshine recorder.

Nature of Information published.—The character of the information given for each station is indicated by the following symbols :—

W. Weekly Weather Report. Temperature and rainfall data.
⊙ Bright Sunshine data.
M. Monthly Weather Report. Full summary in the international form.
m. Monthly Weather Report. Abridged summary of temperature and rainfall.

Average Values.—Reference is made to Publications of the Office containing average values for long periods by means of the following letters :—

a. Appendix III. of the Weekly Weather Report for 1906. Monthly averages of mean maximum, mean minimum and mean temperature, and of rainfall for the 35 years 1871-1905 and (when available) of bright sunshine for the twenty-five years 1881-1905.
b. Appendix I. to the volume of "Meteorological Observations at Stations of the Second Order" for 1891. Monthly averages for all elements for the fifteen years 1876-1890.
c. "Temperature Tables of the British Islands," 1871-1900. Monthly average of mean maximum, mean minimum and mean temperature generally for the thirty years 1871-1900, together with information on the extremes of temperature in the same period.
d. "Rainfall tables of the British Islands," Part I., 1866-80, Part II., 1880-90. Monthly averages of rainfall for lustra and for the periods named.

Royal Observatory, Greenwich.—The averages for Temperature and Rainfall, with which the current values are compared, are for the 65 years 1841–1905. The averages for sunshine are for the period 1897–1911.

The summary of wind direction is based upon continuous records and the numbers given are proportional to the actual recorded duration for the whole month of wind from the different directions.

The summary of wind force is obtained from the records of a cup anemograph having 5 in. cups and 15 in. arms. The factor used is 3. Winds above 37 miles per hour are reckoned as gales and winds between 21 and 37 miles per hour as strong winds.

Radcliffe Observatory, Oxford.—The averages with which the figures given in the second line are compared are for the 57 years 1855–1911 in the case of pressure, and for the 97 years 1815–1911 in that of rainfall. The values for the current months given in this second line are the means of observations at 8 a.m., Noon, and 8 p.m., reduced to mean daily values by the application of monthly corrections based on observations during the periods 1880–1887 and 1900–1905. The value given under the heading "Cloud" is the mean of observations at 8 a.m., Noon, and 8 p.m. The total rainfall is taken from the daily readings of the self-recording rain gauge, which correspond to the civil day ending at midnight.

APPENDIX.

Monthly Normals of Temperature, Rainfall, and Sunshine.

The average values used for purposes of comparison in this volume of the Monthly Weather Report are in most cases those given in Appendix III. of the Weekly Weather Report for 1906 and cover periods of various lengths ending in 1905. The averages have now been recalculated up to the end of 1910 and a new table containing them is being issued as Appendix IV. of the Weekly Weather Report for 1913. This Appendix is illustrated by 52 maps which show the normal distribution of maximum temperature, minimum temperature, rainfall and sunshine for each month and for the whole year.

Meteorological Societies.—Data for stations marked S have been supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Office.

	Stations		Height in feet above M.S.L.	Character of information published.	Averages.
0. SCOTLAND, N.					
	a. Islands.				
	b. Mainland.				
a.	Baltasound	E S	31	W, ⊙, m.	—
a.	Castlebay, Barra Island		37	W, ⊙, M.	—
a.	Deerness	S	160	⊙, M.	**a, b, c.**
a.	Lerwick*		54	W, M.	**a, c.**
a.	Stornoway		51	W, ⊙, M.	**a, c.**
b.	Dunrobin Castle	S	12	M.	**c, d.**
b.	Fort Augustus	S	68	W, ⊙, M.	**a, c.**
b.	Fort William	S	171	W, M.	**a, c.**
b.	Fortrose	S	69	⊙, m.	—
b.	Glencarron	S	500	W, M.	**a, c.**
b.	Kingussie	S	840	M.	—
b.	Strathpeffer Spa	S	200	W, ⊙, M.	**a.**
b.	Wick	S	81	W, M.	**a, c.**
1. SCOTLAND, E.					
	Aberdeen	S	46	W, ⊙, M.	**a, c.**
	Balmoral	S	930	W, M.	—
	Balruddery	S	276	⊙, m.	—
	Braemar	S	1,120	M.	**a, c.**
	Carnoustie	S	39	m.	—
	Crathes	S	140	⊙, m.	—
	Crieff	S	432	W, M.	—
	Dundee	S	160	M.	**c, d.**
	Gordon Castle	S	101	W, ⊙, M.	**c, d.**
	Leith	S	18	W, M.	**a, c.**
	Marchmont	S	498	W, ⊙, M.	**a, c.**
	Nairn	S	82	W, ⊙, M.	**a, c.**
	St. Andrews	S	20	m.	—
	Stonehaven	S	92	⊙, m.	—
	West Linton	S	770	W, ⊙, m.	—
2. ENGLAND, N.E.					
	a. Northern.				
	Alnwick Castle		210	W, m.	**a.**
	Ampleforth		349	m.	—
	Bellingham		848	m.	—
	Chopwellwood		445	⊙, m.	—
	Cockle Park		324	⊙, M.	**a.**
	Durham		336	W, ⊙, M.	**a, b, c.**
	Rounton		249	W, M.	**c.**
a.	Scarborough		100	W, ⊙, M.	**a, c.**
	Shields		96	W, M.	**a, c, d.**
	Tynemouth		90	m.	—
	Ushaw		599	m.	—
	West Witton		605	W, m.	—
	Whitby		124	⊙, M.	**a, d.**
	York		56	W, ⊙, M.	**a, c, d.**
	b. Southern.				
	Fulbeck		180	W, m.	**a.**
	Hull		12	⊙, M.	**a.**
	Lincoln		58	W, M.	**a, d.**
b.	Rauceby		124	⊙, m.	**a.**
	Skegness		12	W, ⊙, M.	—
	Spurn Head		26	W, M.	**a, c.**

	Stations.	Height in feet above M.S.L.	Character of information published.	Averages.
3. ENGLAND, E.				
	a. Northern.			
	b. Southern.			
	Cromer	196	W, ⊙, M.	—
	Geldeston	37	W, ⊙, M.	**a, c, d.**
	Little Massingham	280	W, ⊙, M.	—
a.	Lowestoft	83	⊙, M.	**a, d.**
	Norwich	93	W, m.	**d.**
	Peterborough (Eye)	16	m.	—
	Yarmouth	17	W, ⊙, M.	**a, c.**
	Bennington	406	M.	**a, c.**
	Berkhamsted	400	⊙, M.	**a, c.**
	Cambridge	41	W, ⊙, M.	**a, d.**
	Chelmsford	134	m.	—
	Clacton-on-Sea	54	W, ⊙, M.	—
	Felixstowe	10	W, ⊙, m.	—
	Halstead	139	m.	—
b.	Hemel Hempstead	535	m.	—
	Ipswich (Copdock)	164	m.	—
	Ridgewell	269	m.	—
	Rothamsted	424	W, ⊙, m.	**a, c, d.**
	Shoeburyness	13	W, m.	**a, d.**
	Southend	90	⊙, m.	**a.**
	Walton-on-Naze	69	m.	—
	Woburn	291	⊙, M.	—
4. MIDLAND COUNTIES.				
	a. Eastern.			
	Bawtry	65	W, m.	**a, c.**
	Belper	222	m.	—
	Belper (Quarry Bank)	280	m.	—
	Belvoir Castle	259	⊙, M.	**a, d.**
	Birmingham, Edgbaston	535	W, ⊙, M.	**a, d.**
	Bradford	439	⊙, m.	**(d.)**
	Buxton	987	W, ⊙, M.	**a, b**
	Coventry	270	⊙, M.	**a.**
	Garforth	195	⊙, M.	—
	Harrogate	476	W, ⊙, m.	**a.**
	High Wycombe	249	m.	—
	Huddersfield	409	⊙, M.	—
a.	Kingston-on-Soar	125	m.	—
	Matlock	636	m.	—
	Meltham	513	m.	—
	Nottingham	82	W, ⊙, M.	**a.**
	Oxford	208	W, ⊙, M.	**a, c.**
	Raunds	203	W, m.	—
	Rugby	379	m.	**a, c.**
	Sheffield	429	⊙, M.	**a, c, d**
	Sparkhill	424	m.	—
	Strelley	377	m.	—
	Thrapston	251	⊙, m.	—
	Wakefield	96	⊙	—
	Worksop	56	⊙, m.	**a, d.**
	b. Western.			
	Bath	66	W, ⊙, M.	**a.**
	Bromyard	392	m.	—
	Cheadle (Tean)	646	W, m.	**a, b, c.**
	Cheltenham	214	⊙, M.	**a, c.**
	Cirencester	446	W, ⊙, m.	**a, c.**
	Hereford	291	W, m.	**a.**
b.	Leamington Spa	165	m.	—
	Malvern	516	m.	—
	Mayfield (Staffs)	374	m.	—
	Ross	213	m.	—
	Shrewsbury	191	W, M.	**d.**
	Wellington	207	m.	—
	Wistanstow	484	M.	—

* Lerwick. Averages used are computed from the values for Sumburgh Head.

	Stations.	Height in feet above M.S.L.	Character of information published.	Averages.
5.	**ENGLAND, S.E.**			
	Aldershot	231	m.	—
	Basingstoke	289	m.	—
	Bexhill-on-Sea	27	⊙, m.	—
	Bognor	20	⊙, m.	—
	Bournemouth	145	⊙, m.	—
	Brighton	31	⊙, M.	**a, d.**
	Broadstairs	140	⊙, m.	—
	Bucklebury	409	m.	—
	Croydon (Addington)	472	m.	—
	Dover	231	⊙, M.	—
	Dungeness	21	W, M.	**a, c.**
	Eastbourne	39	⊙, M.	**a.**
	Eltham	209	m.	—
	Folkestone	121	⊙, m.	—
	Grayshott	661	⊙, M.	—
	Hastings (St. Leonards)	178	W, ⊙, M.	**a, c, d.**
	Hove	—	⊙	—
	Littlestone	—	⊙	**a.**
	Malmesbury	235	m.	—
	Margate	35	W, ⊙, m.	**a, c, d.**
	Marlborough	424	W, ⊙, m.	**a, c.**
	Matfield	319	m.	—
	Midhurst	480	⊙, m.	—
	New Malden	39	⊙, m.	—
	Portsmouth	11	⊙, M.	**a.**
	Ramsgate	168	⊙	—
	Reading (Leighton Pk. School)	264	M.	**d.**
	,, (University Coll.)	152	—	—
	,, (Shinfield)	199	—	—
	Salisbury (Wilton)	180	M.	**a, d.**
	Sandown	20	⊙, m.	—
	Selsey Bill	21	⊙, m.	—
	Sevenoaks	509	m.	—
	Southampton	65	W, ⊙, M.	**a, c, d.**
	Swarraton	310	W, m.	**a, c.**
	Totland Bay	140	⊙, m.	**a.**
	Tunbridge Wells	418	W, ⊙, m.	**a, c.**
	Ventnor	80	⊙, M.	**a, c.**
	Wallington	140	m.	—
	Westbourne	30	⊙	—
	Wisley, Surrey	150	W, ⊙, m.	—
	Woking	179	m.	—
	Wokingham	216	m.	—
	Worthing	36	⊙, m.	**a, c.**
	LONDON.			
	Bunhill Row (City)	80	⊙	**a.**
	Camden Square	110	⊙, M.	**a, d.**
	Enfield	203	⊙, m.	—
	Greenwich	155	W, ⊙, M.	**a, c, d.**
	Golders Green	279	m.	—
	Hampstead	450	M.	—
	Hampstead (Redington Rd.)	375	m.	—
	Kew	18	W, ⊙, M.	**a, c, d.**
	Plumstead	300	⊙	—
	South Kensington†	31	M.	—
	Tottenham	51	W, ⊙, M.	—
	Westminster	27	W, ⊙, M.	**a.**
6.	**SCOTLAND, W.** (*a.*) **ISLE OF MAN** (*b.*)			
	Ardnadam	64	m.	—
	Cally, Gatehouse	120	W, M.	**a.**
	Colmonell	169	W, M.	—
	Dumfries	160	W, M.	**a.**
	Eskdalemuir	799	⊙, M.	—
	Glasgow Obs.	180	W, ⊙, M.	**a, c, d.**
a.	,, (Springburn Park)	355	⊙, M.	—
	Kilmarnock	90	W, ⊙, m.	—
	Oban	20	⊙, m.	—
	Poltalloch	132	W, M.	**c.**
	Rothesay	90	W, ⊙, M.	**c, d.**
	Ruthwell	67	⊙, m.	—
	Thorntonhall	440	⊙, m.	—
b.	Douglas	277	W, ⊙, M.	**a, c, d.**

	Stations.	Height in feet above M.S.L.	Character of information published.	Averages.
7. *a.*	**ENGLAND, N.W.**			
	Aspatria	250	W, ⊙, M.	**a.**
	Blackpool	66	W, ⊙, M.	**a.**
	Blundellsands	34	m.	—
	Bolton	341	⊙, m.	—
	Burnley	459	⊙, m.	**d.**
	Carnforth	174	⊙, m.	—
	Darwen	722	⊙, M.	—
	Egremont	349	⊙, M.	—
	Hawarden Bridge	22	W, m.	**a.**
	Hoylake	30	⊙, m.	**a.**
	Hutton	82	⊙, m.	—
a.	Lancaster	311	⊙, m.	—
	Leyland	124	⊙, m.	—
	Liverpool (Bidston Obs.)	188	W, ⊙, M.	**a, c.**
	Macclesfield	500	m.	—
	Manchester (Oldham Road)	190	⊙, M.	**a.**
	,, (Whitworth Park)	125	⊙, M.	—
	Newton Rigg	559	W, ⊙, M.	**a.**
	Northwich	117	m.	—
	Scaleby	111	m.	—
	Seathwaite	422	m.	—
	Southport	37	⊙, M.	**a.**
	Stonyhurst	375	W, ⊙, M	**a, c, d.**
	b. **NORTH WALES.**			
	Aberdovey	22	⊙, m.	—
	Bettws-y-Coed*	147	W, ⊙, M.	—
	Colwyn Bay	81	⊙, m.	—
	Dwyran	16	M.	—
	Holyhead	57	W, ⊙, M.	**a, c.**
b.	Llanberis (Pen-y-gwryd)	913	m.	—
	Llandudno	71	W, ⊙, M.	**a, b, c, d.**
	Rhyl	30	⊙, m.	**a.**
	Ruthin	449	m.	—
	St. Asaph (St. Beuno's Coll.)	479	m.	—
	Welshpool	255	m.	—
8. *a.*	**SOUTH WALES.**			
b.	**ENGLAND, S.W.**			
	Aberystwyth	59	⊙, m.	—
	Cardiff	203	W, ⊙, M.	**a, d.**
	Gwernyfed	374	m.	—
	Haverfordwest	93	⊙	—
a.	Llangammarch Wells	550	W, ⊙, M.	**a.**
	Pembroke (St. Ann's Head)	149	W, ⊙, M.	**a, c.**
	Port Talbot	179	⊙	—
	Swansea	24	⊙, m.	—
	Tenby	79	⊙	**a.**
	Arlington	613	W, m.	**a, c.**
	Ashburton	583	m.	—
	Clifton (Bristol)	229	W, ⊙, m.	**a, d.**
	Cullompton	202	W, ⊙, m.	**a, c.**
	Dorchester	314	⊙, m.	—
	Exmouth	11	⊙, m.	—
	Falmouth	167	W, ⊙, M.	**a, c.**
	Forest of Dean	200	m.	—
	,, ,,	900		
	Fowey	51	⊙, m.	—
b.	Ilfracombe	394	⊙, m.	—
	,,	24		
	Killerton	159	m.	—
	Minehead	104	⊙, m.	—
	Newquay	189	⊙, M.	**a, d.**
	Paignton	11	⊙, m.	—
	Penzance	54	⊙, m.	**d**
	Plymouth	116	W, ⊙, M.	**a, c.**
	Portland Bill	19	W, M.	—
	Princetown	1,359	m.	—
	Redruth	397	m.	—

* The thermometer screen stands on ground 100 ft. above M.S.L.
† The thermometer screen is 60 ft. above the ground.

	Station.	Height in feet above M.S.L.	Character of information published.	Averages.
8.	***b.* ENGLAND, S.W.** *continued.*			
b.	Rousdon	515	⊙, m.	—
	Salcombe	39	⊙	—
	Shaftesbury	722	W, m.	**a, d.**
	Sheepstor	749	m.	—
	Sidmouth	147	m.	—
	Tavistock	374	m.	—
	Teignmouth	19	⊙, m.	—
	Torquay	12	⊙	**a, d.**
	Weston-super-Mare	29	⊙, m.	—
	Weymouth	21	⊙, m.	—
	Woolacombe	59	⊙, M.	**a.**
9.	**IRELAND, N.**			
	a. Western.			
	b. Eastern.			
a.	Blacksod Point	37	W, M.	**a.**
	Dunfanaghy	54	m.	—
	Malin Head	208	W, M.	**a, c.**
	Markree Castle	122	W, ⊙, M.	**a, b, c.**
	Newtownforbes	?172	m.	—
b.	Armagh	196	W, ⊙, M.	**a, c, d.**
	Belfast	61	⊙, M.	**a, d.**
	Donaghadee	27	W, M.	**a, c.**
	Lisburn	206	m.	—
10.	**IRELAND, S.**			
	a. Eastern.			
	b. Western.			
	Clongowes Wood College	245	⊙, m.	—
	Dublin, City	47	W, M.	**a, b, c.**
	„ Trinity College	12	⊙, M.	—
	„ Phœnix Park	155	⊙, M.	**a, c.**
	„ Glasnevin	67	m.	**a, c.**
a.	Newcastle, Co. Wicklow	256	m.	—
	Kilkenny	212	W, m.	**a, c.**
	Kingstown	42	⊙, m.	—
	Mountmellick	252	m.	—
	Waterford	38	W, m.	**a.**
	Waterford (Training College)	20	m.	—
	Wexford	116	m.	—
b.	Ballinacurra	24	⊙, m.	—
	Birr Castle	175	W, ⊙, M.	**a, b, c.**
	Cahir	199	W, m.	—
	Foynes	108	W, m.	**a, c.**
	Killarney	174	W, m.	**a, c.**
	Limerick	48	M.	—
	Roche's Point	32	W, M.	**a, c.**
	Valencia	30	W, ⊙, M.	**a, c.**
11.	**ENGLISH CHANNEL.**			
	Guernsey (Villa Carey)	180	W, ⊙, m.	**a.**
	„ Brooklyn	297	⊙, M.	**a, c.**
	Jersey (St. Aubin's)	25	W, M.	**a, c.**
	„ (St. Helier's)	—	⊙.	**a.**
	Scilly	131	W, ⊙, M.	**a, c.**

THE following is a LIST of the VOLUNTEER OBSERVERS to whom the Committee are indebted for observations contributed to the Monthly Weather Report during 1913, together with the NAMES of their STATIONS :—

Names of Stations.	Names of Observers.
Aberdovey	W. J. Eves.
Aberystwyth	A. Thomas, M.D., for the Urban Council.
Aldershot	E. W. Routley, M.D., M.R.C.P.
Alnwick Castle	Robert Kyle, for the Duke of Northumberland, K.G.
Ampleforth	Rev. H. de Normanville, O.S.B.
Ardnadam	The Rev. J. Cairns Mitchell, B.D.
Arlington (N. Devon)	Miss Chichester.
Armagh	J. L. E. Dreyer, Ph.D., and Staff of Observatory.
Ashburton	J. S. Amery.
Aspatria	J. Smith Hill, B.A., B.Sc.
Ballinacurra	John H. Bennett.
Balmoral	J. M. Troup, for J. Michie, M.V.O.
Balruddery	G. Davie, for J. Martin White.
Baltasound	T. Edmonston Saxby, F.R.C.S., Ed.
Basingstoke	A. M. Pitkin, F.R.G.S., and T. Y. Philpott, M.A.
Bath	W. H. Symons, M.D., for the Corporation.
Bawtry (Hesley Hall)	B. I. Whitaker, J.P.
Belfast	J. Wylie, B.A., and G. Robinson, for Prof. Morton.
Belper	W. W. Tunnicliffe, B.Sc., F.C.S.
Belper (Quarry Bank)	John Hunter.
Belvoir Castle	W. H. Divers, for the Duke of Rutland.
Bellingham	Capt. C. Morrison Bell.
Bennington	Miss Parker and Miss A. H. Parker.
Berkhamsted	E. Mawley.
Bettws-y-Coed	Hugh W. Fox, M.D., for the Rural District Council.
Bexhill-on-Sea	G. Brisley, M.P.S., and G. H. Weston, M.D., M.O.H., for Rural District Council.
Birmingham (Edgbaston).	Alfred Cresswell, for the Midland Institute.
Blackpool	E. W. Rees Jones, M.D., for the Corporation.
Bognor	A. G. Thompson.
Bolton	Thos. Midgley.
Bournemouth	C. Dales, for the Corporation.
Bradford	H. Lander, for the Corporation.
Braemar	A. M. Shirran.
Brighton	D. Forbes, M.D., for the Corporation.
Broadstairs	Howard Hurd, C.E., for the District Council.
Bromyard	T. V. Philpott, M.A., and Miss Philpott.
Bucklebury	G. W. Nye and J. E. Henshall, for A. W. Sutton.
Burnley	Thos. Holt, M.D., for the Corporation.
Buxton	W. Pilkington.
Cahir	R. W. Smith, Junr.
Cally (Gatehouse)	W. Thomson, for Col. F. Murray Baillie.
Cambridge	R. Irwin Lynch, M.A., for the Botanic Garden Syndicate.
Cardiff	E. Walford, M.D., for the Corporation.
Carnforth	W. Farrer.
Carnoustie	P. Sinclair, C.E.
Cheadle	R. Horne, for Col. B. H. Philips.
Chelmsford	Dr. Thresh.
Cheltenham	A. C. Saxby, for the Corporation.
Chopwellwood	J. F. Annand and J. McLaren.
Cirencester	Prof. M. Kershaw, B.A., for the R. A. College.
Clacton-on-Sea	A. W. Shadick, for the Urban District Council.
Clifton (the College)	D. Rintoul, M.A.
Clongowes Wood College,	Rev. J. Neary, S.J.
Cockle Park, near Morpeth.	R. Thornton, for Northumberland County Council.
Colmonell	A. Ogg, for J. W. McConnel.
Colwyn Bay	W. Jones, A.M.I.C.E., for Urban District Council.
Coventry	E. Hugh Snell, M.D., for the Corporation.
Crathes	J. Smith.
Crieff	George Reid, for Dr. Meikle.
Cromer	W. H. Archer, for the District Council.
Croydon (Addington)	Borough Engineer.
Cullompton	M. T. Foster.
Darwen	F. G. Haworth, M.B., for the Corporation.
Deerness	M. Spence.
Dorchester	H. D. Strange (Borough Engineer).

THE following is a LIST of the VOLUNTEER OBSERVERS to whom the Committee are indebted for observations contributed to the Monthly Weather Report during 1913, together with the NAMES of their STATIONS—*cont.*:—

Names of Stations.	Names of Observers.
Douglas, Isle of Man	F. Cottle, for the Corporation.
Dover	W. C. Hawke, C.E., for the Corporation.
Dublin (City)	Sir John W. Moore, M.D., D.Sc.
„ (Glasnevin)	Sir F. W. Moore, M.R.I.A.
„ (Phœnix Park)	The Superintendent, Ordnance Survey Office.
„ (TrinityCollege)	Prof. Thrift.
Dumfries	C. C. Easterbrook, M.D., Crichton R. Institute.
Dundee	J. Carnochan.
Duntanaghy	J. J. MacGrath, L.R.C.P.
Dunrobin Castle	D. Melville, for the Duke of Sutherland.
Durham	F. C. H. Carpenter, M.A.
Dwyran	W. E. Sotheby.
Eastbourne	S. R. Henderson, for the Corporation.
Egremont	J. W. Sherwen.
Eltham	Miss A. Bramwell, B.Sc.
Enfield	W. P. Warren.
Felixstowe	Montague Humphrey, for the Urban District Council.
Folkestone	The Borough Engineer, for the Corporation.
Forest of Dean	V. F. Leese.
Fort Augustus	Rev. C. von Dieckhoff, O.S.B.
Fortrose	Archd. Thom, M.A.
Fort William	W. T. Kilgour.
Fowey	Dr. W. H. Boger.
Foynes	J. J. Alcorn, for Lord Monteagle, K.P.
Fulbeck	J. Charlton, for W. V. R. Fane.
Garforth	Prof. Seton, B.Sc., for the University of Leeds.
Geldeston	E. T. Dowson.
*Glasgow	Prof. L. Becker, Ph.D., and the Staff of Observatory.
Glencarron	D. D. Munro.
Golders Green	J. W. Duncan and the Secretary, Hampstead Garden Suburb Trust.
Gordon Castle	C. Webster, for the Duke of Richmond and Gordon, K.G.
Grayshott	Mrs. C. Lyndon.
Greenwich	The Astronomer Royal.
Guernsey (Villa Carey)	F. E. Carey, M.D.
„ (Fort Road)	A. Collenette.
Gwernyfed	J. Slade, for Col. Wood.
Halstead	E. T. Adams, F.R.A.S.
Hampstead	E. L. Hawke, for the Hampstead Scientific Society.
Hampstead (Redington Road).	H. W. Braby, B.A.
Harrogate	C. E. Rivers, A.M.I.C.E., for the Corporation.
Hastings (St. Leonards)	H. Colborne, M.R.C.S., for the Corporation.
Haverfordwest	J. W. Phillips.
Hawarden Bridge	John Summers & Sons, Ltd.
Hemel Hempstead	Elliott Kitchener, M.A.
Hereford (Belmont)	The Prior, and Rev. J. C. Maddox, O.S.B.
Hove	A. Griffith, M.D., M.O.H., for the Corporation.
Hoylake	R. W. Fraser, for U.D. Council.
Huddersfield	J. Firth, for the Corporation.
Hull	H. B. Witty, for the Corporation.
Ilfracombe	O. M. Prouse, A.M.I.C.E.
Kilkenny Castle	E. Sutton, for the Marquis of Ormonde, K.P.
Killarney	E. W. Griffin, M.D.
Killerton	J. Wilson, for Sir T. D. Acland, Bart.
Kilmarnock	B. P. Perry, for West of Scotland Agricultural College.
Kingston-on-Soar	Fred Wakerly, for the Midland Agricultural and Dairy College.
Kingstown	J. S. Vaughan, LL.D., for the Corporation.
Kingussie	W. de Watteville, M.D.
Lancaster	N. Holden, F.R.A.S., for the Corporation.
Leyland	H. Nowell Ffarington.
Llanberis	A. Lockwood.
Llandudno	W. Little, for Town Council.
Llangammarch Wells	W. Black Jones, M.D., M.O.H.
Limerick	Rev. W. O'Leary, S.J.
Lincoln	W. Barr and H. Hoe, for the Corporation.
Little Massingham	Rev. H. L. Brereton.
Littlestone-on-Sea	W. Ryals, for H. T. Tubbs.
London (Bunhill Row)	T. De la Rue & Co., Ltd.
„ (Camden Sq.)	H. R. Mill, D.Sc., LL.D.
„ (Plumstead)	J. G. Waller.
„ (Westminster)	W. Clover, for Rev. H. B. Workman, D. Lit.
Lowestoft	C. W. Edwards, for the Corporation.

Names of Stations.	Names of Observers.
Macclesfield	John Dale.
Malmesbury	G. Deadman, for C. E. Bertodano.
Malvern	A. Mander, F.C.S., and E. W. Harris.
Manchester (Oldham Road).	J. Niven, M.A., M.B., for the Corporation.
Manchester (Whitworth Pk.).	Professor Rutherford and W. T. Lantsberry, for the University of Manchester.
Marchmont	J. A. Wood, for Sir J. H. P. Hume-Campbell, Bt.
Margate	J. Stokes, J.P., for the Corporation.
Markree Castle	J. R. Armstrong, for Captain Cooper.
Marlborough	G. G. Becher, M.A., and Meddowes Taylor, for the College.
Matfield	D'Arcy Reeve.
Matlock	J. D. Evans.
Mayfield	G. C. Lawson.
Meltham	C. L. Brook.
Midhurst	The Medical Superintendent (Sanatorium).
Minehead	E. A. Jones, for R. Shafto Adair.
Mountmellick	W. A. Robinson.
Newcastle, Co. Wicklow.	C. D. Hanan, M.B., National Hospital for Consumption.
New Malden	W. J. Carter.
Newquay	C. C. Vigurs, B.A., M.D., for Urban Council.
Newton Rigg	W. T. Lawrence, for the Cumberland County Council.
Newtownforbes	J. A. Boyle, for the Earl of Granard.
Northwich	J. A. Saner.
Nottingham	A. Brown, A.M.I.C.E., City Engineer.
Norwich	A. W. Preston.
Norwich (Southwell)	J. H. Willis.
Oban	E. Baily, M.B., M.O.H.
Oxford	The Radcliffe Observer.
Paignton	A. J. Holman, for Town Council.
Penzance	C. H. Benn, for the District Council.
Peterborough (Eye)	S. M. Egar.
Plymouth	H. Victor Prigg, A.M.I.C.E., for the Corporation.
Poltalloch	D. S. Melville, for Col. E. D. Malcolm, C.B., R.E.
Portsmouth	A. Mearns Fraser, M.D., for the Corporation.
Port Talbot	Miss Talbot and G. Lipscombe.
Princetown	G. Berry.
Ramsgate	T. G. Taylor, C.E., for the Corporation.
Rauceby Hall	J. Hope, for the Rev. Y. F. Willson.
Raunds	Léon. G. H. Lee.
Reading (Leighton Park School)	C. I. Evans, M.A.
† „ (University College).	H. N. Dickson, D.Sc.
Redruth	A. P. Jenkins.
Rhyl	A. A. Goodall, C.E., for District Council.
Ross	H. Southall, J.P.
Rothamsted	The Lawes' Agricultural Trust.
Rothesay	D. Penney, for Robert Henderson, and R. D. Whyte, for the Buteshire Nat. Hist. Soc.
Rounton	J. Hanagan, for Sir Hugh Bell, Bart.
Rousdon	G. Grover, for Hon. Lady Peek.
Rugby (the School)	Rev. D. E. Shorto, M.A.
Ruthin	Dr. G. A. Crace-Calvert.
Ruthwell	W. H. Whellens and William Brown, for A. Johnstone Douglas, D.L., J.P.
St. Asaph	Rev. J. Rowland, S.J., and Rev. R. Adamson, S.J., B.Sc.
Salcombe	Capt. John Partridge.
Salisbury	Thos. Challis, for the Earl of Pembroke, G.C.V.O.
Sandown	C. E. Gilchrist, for Free Library.
Scaleby	Sir R. A. Allison, J.P., D.L.
Scarborough	Stanley F. Linton, M.O.H., for the Corporation.
Seathwaite	A. Pepper.
Selsey Bill	Mrs. E. Heron Allen.
Sevenoaks	W. Tattersall.
Shaftesbury	Rev. F. Ehlvers.
Sheffield	E. Howarth, F.R.A.S.
Sheepstor	Rev. H. H. Breton, M.A.
Shoeburyness	Supt. of Experiments.
Shrewsbury	Capt. C. S. Reid, R. E., and Capt. H. E. Rathbone, R.E.
Sidmouth	Miss C. Radford.
Skegness	S. Coetmore Jones, for the District Council.
Southampton	A. Vaughan, for Director General, Ordnance Survey.
Southend-on-Sea	E. J. Elford, C.E., for the Corporation.
Southport	J. Baxendell, for the Corporation.
Sparkhill	D. H. Owen.
Stonehaven	J. Hart, for the Corporation.
Stonyhurst	Rev. W. Sidgreaves, S. J. and the Staff of Observatory.
Strelley	T. L. K. Edge.
Strathpeffer Spa	N. McLean, for H. W. Kaye, B.A., M.B.
Swansea	D. Bliss, for the Corporation.
Swarraton	Rev. W. L. W. Eyre, M.A.

* *See* pp. iv., ix*b*.

† *See* p. ix*c*.

Names of Stations.	Names of Observers.	Names of Stations.	Names of Observers.
Tavistock	W. J. Monk.	Westbourne	Rev. L. B. Birkett.
Teignmouth	G. Rossiter, for M.O.H.	West Linton	Rev. J. S. Begg and Dr. J. Ritchie Jeffrey.
Tenby	Miss Mildred B. Truscott, for the Corporation.	Weston-Super-Mare	Sydney C. Smith.
Thorntonhall, Lanarkshire.	J. Wilson, for A. Henderson Bishop.	West Witton	J. B. Espiner.
Torquay	F. March, for the Corporation.	Wexford	Charles Bain.
Totland Bay	J. Dover, M.A.	Weymouth	I. J. Brown and J. H. Bolam, Hon. Borough Meteorologist.
Tottenham	The Medical Officer, for District Council.	Whitby	T. Woodhouse Parkinson, for the Literary and Philosophical Society.
Tunbridge Wells	The late F. G. Smart, M.A., M.B.	Winslow	R. A. Easton.
Tynemouth	J. E. Burnett.	Wisley	The Superintendent, for the Roy. Hort. Society.
		Wistanstow	Rev. W. M. D. LaTouche, B.A.
Ushaw	Rev. C. Gelderd.	Woburn	H. M. Freear, F.C.S., for the Royal Agricultural Society.
		Woking	G. C. H. Simmonds.
Ventnor Hospital	Miss M. Gibson.	Wokingham	The Medical Superintendent of the Sanatorium.
		Woolacombe	T. S. Watkinson, for Miss Chichester.
Wallington	F. Campbell Bayard.	Worksop	Lt.-Col. H. Mellish, J.P.
Waterford	J. N. White.	Worthing	R. H. Wilshaw, M.B., D.P.H., for the Corporation.
Wellington	J. W. Nowell, for the C.W.S.		
Welshpool	W. E. Whitehouse and W. H. Brooks.	York (Museum)	Oxley Grabham, M.A., for the York Phil. Soc.
		„ (Bootham)	The Meteorological Curator.

Meteorological Office,
London, S.W.

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Glasgow Observatory, May to December, 1913.

Month.	Height of Gauge above M.S.L.	Air Temperature. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	Rain and other forms of Precipitation. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	Weather. No. of Days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Bright Sunshine. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
	Ft.	°	°	°	°	°		°		°	°	In.	In.	In								Hr.	Hr.	%	%
May	180	56·6	44·1	50·4	+0·4	71	30th	38	19th	—	—	3·35	+0·93	0·77	8th	21	0	2	2	0	2	3·59	−1·73	22	−11
June ...	180	61·5	49·4	55·5	−0·3	72	16th	44	12th	—	—	3·00	−0·17	0·73	19th	19	0	1	2	0	0	4·03	−1·47	23	− 9
July ...	180	65·4	51·5	58·5	+0·5	74	3, 23	44	7th	—	—	1·29	−2·06	0·45	13th.	8	0	0	1	0	0	5·98	+1·33	36	+ 8
August ...	180	64·4	51·0	57·7	+0·6	72	2nd	44	18, 20	—	—	1·01	−3·05	0·22	21st	9	0	0	0	0	0	3·90	−0·36	26	− 3
September .	180	59·4	49·2	54·3	+1·1	68	24th	40	7th	—	—	2·28	−1·30	0·76	13th	13	0	0	0	0	1	1·76	−1·57	14	−13
October ...	180	54·4	46·3	50·4	+3·6	62	13th	34	24th	—	—	1·74	−2·00	0·67	13th	19	0	0	0	0	5	2·45	+0·19	24	+ 2
November .	180	49·6	41·9	45·8	+3·5	55	17th	33	8th	—	—	5·31	+1·61	0·77	15th	24	0	0	0	0	4	1·02	+0·15	13	+ 2
December...	180	44·2	37·0	40·6	+1·8	55	8, 9	24	31st	—	—	3·43	−0·56	0·96	3rd	17	1	1	0	2	13	0·66	+0·18	10	+ 3

UNIVERSITY COLLEGE, READING.

GEOGRAPHICAL LABORATORY.

Meteorological Observations, 1913.

Latitude 51° 27′ N.; Longitude 0° 57′ 30″ W. Height above Sea Level 152·4 feet. Observations taken at 9 a.m.

MONTH.	Barometer Reduced to 32° F.	TEMPERATURE.		HYGROMETER.					Rainfall.	Wind Force.	Cloud Amount.	EARTH TEMPERATURES.	
		Mean Maximum.	Mean Minimum.	Dry Bulb.	Wet Bulb.	Dew Point.	Elastic Force of Aqueous Vapour.	Relative Humidity.	Inches.	0 – 12	0 – 10	Depth 12″.	Depth 24″.
January	29·636	45·4	35·0	40·0	38·8	37·4	·228	90	3·20	1·2	5·7	41·0	42·4
February	30·013	46·0	40·0	39·0	37·6	35·6	·212	87	·89	1·5	6·3	39·5	41·3
March	29·718	51·4	37·3	44·6	43·6	41·1	·263	87	2·10	2·6	6·6	42·7	43·5
April	29·696	54·8	41·2	48·1	45·6	43·0	·282	83	2·49	2·4	7·6	46·7	46·9
May	29·744	64·4	45·0	56·4	51·9	47·9	·341	74	2·33	1·6	6·3	54·0	53·4
June	29·926	68·9	49·2	60·9	56·1	51·9	·396	73	·47	1·5	5·7	60·0	59·4
July	29·900	68·0	52·0	59·3	56·6	54·3	·426	84	·83	1·7	8·5	61·1	60·7
August	29·900	70·0	52·0	61·1	56·6	52·8	·405	75	·87	1·3	7·4	61·5	61·3
September	29·802	66·3	50·8	57·9	55·5	53·4	·410	85	1·77	1·4	5·6	58·2	59·3
October	29·696	59·2	47·1	51·6	50·5	49·3	·357	92	4·87	1·2	4·0	53·9	55·4
November	29·733	53·2	39·7	46·2	44·9	43·5	·288	90	2·30	2·0	5·4	47·3	49·4
December	29·934	45·1	36·2	40·6	39·3	37·6	·232	89	1·04	1·5	5·2	42·2	45·0
Totals ...	29·808	57·7	43·8	50·5	48·1	45·7	·320	84	23·16	1·6	6·2	50·7	51·5

UNIVERSITY COLLEGE, READING.

GEOGRAPHICAL LABORATORY.

Meteorological Observations at University College Farm, Shinfield, for 1913.

Latitude 51° 25′ N.; Longitude 0° 56′ 30″ W. Height above Sea Level 199·2 feet. Observations taken at 9 a.m.

MONTH	TEMPERATURE.		HYGROMETER.					Rainfall.	Wind Force.	Cloud Amount.
	Mean Maximum.	Mean Minimum.	Dry Bulb.	Wet Bulb.	Dew Point.	Elastic Force of Aqueous Vapour.	Relative Humidity.	Inches.	0–12.	0–10.
January	46·1	34·6	39·8	39·0	38·0	·233	93	3·20	1·1	4·7
February	45·8	33·6	38·2	37·0	34·7	·205	87	·97	1·0	6·3
March	51·5	36·5	43·7	41·7	39·5	·246	85	2·24	1·8	6·7
April	54·4	38·7	47·5	44·3	40·9	·262	78	2·43	1·7	7·5
May	63·2	44·0	55·5	51·4	47·7	·339	76	2·20	1·2	6·3
June ...	67·9	47·7	60·5	55·5	51·3	·381	72	·64	1·7	5·9
July	66·7	50·2	58·7	55·0	51·5	·383	78	·85	1·0	8·6
August	70·0	50·6	61·6	57·0	53·1	·409	74	1·19	1·3	7·4
September ...	65·9	50·0	58·4	55·7	53·3	·410	83	1·40	1·5	5·5
October	59·2	45·5	51·7	50·1	48·6	·347	90	4·46	1·0	4·9
November ...	54·1	38·5	45·7	44·3	43·1	·283	90	2·59	1·4	6·3
December ...	45·5	35·1	40·0	38·4	36·5	·223	87	1·15	1·1	6·3
Totals ...	57·5	42·1	50·1	47·5	44·9	·310	83	23·32	1·3	6·4

Meteorological Office,
London, S.W.
August 27th, 1914.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. I. JANUARY, 1913. [*Price 6d.*

STORMY AND WET.

Pressure, Winds and Weather.—The very disturbed and windy weather conditions which marked the whole of the closing month of 1912 have been maintained throughout the opening month of 1913, but the type of pressure distribution during each month differed very considerably. In December nearly the whole of the cyclonic systems from the upper region of the Atlantic travelled along a general easterly path between Scotland and the Arctic Circle. During January, on the other hand, the Atlantic was never free from the presence of extensive and deep to very deep depressions, yet not one of the centres of these numerous systems reached the western coasts of the British Isles—they either dispersed or passed away towards the Arctic Sea round by the west of Iceland, one moving eastward across Iceland at the end of the month. The few instances of depressions moving across this country, and shown on Map 2, p. XV., were smaller secondary disturbances thrown off from the primary ones on the ocean. The northward translation of the Atlantic cyclones was associated with the prevalence of high pressure areas over Europe, several well-defined anticyclones extending from Northern Scandinavia or Northern Russia down to the Mediterranean. One anticyclone visited these islands, but only for a very brief interval. It made its appearance over the western districts on the evening of the 25th, and by the following evening it had already passed from our south-eastern coasts to the Continent, the barometer just touching 30·4 in. at Dover and Yarmouth, the highest level attained during the month at the home stations. Out on the Atlantic barometric values below 28·5 in. occurred on several days, the exceptionally low reading of 27·44 in. being registered on the White Star liner "Celtic" on the morning of the 10th, in latitude 50° N., longitude 29° W., not far from the position, 51° N., 24° W., where 27·33 in. was recorded on board the s.s. "Tarifa," on February 5th, 1870, the lowest Atlantic reading known. These very deep depressions being at no great distance from our western coasts, barometer readings below 29·5 in. were numerous on land, and on four days pressure was below 29 in. over a large part of the kingdom. On the approach of one of the secondary disturbances, on the 19th, the barometer dropped to 28·67 in. at Valencia, and in the Icelandic depression towards the end of the month the mercury went down to 28·53 in. at Lerwick.

With this all but continuous existence of depressions the mean pressure was below the normal all over this country, the deficiency being very large in the west, as much as 0·42 in. at Blacksod Point, and 0·39 in. at Valencia, and diminishing eastward, to 0·15 in. at Aberdeen, 0·14 in. at Wick, and 0·02 in. at Lerwick. From the great frequency of very low readings on the upper part of the Atlantic, the mean result would appear to be about 28¾ in., while at the land stations the values ranged from 29·22 in. at Westmanna (off the south coast of Iceland) to 29·47 in. at Blacksod Point, 29·84 in. at Jersey and Dover, 30·08 in. at Horta (Azores), and 30·22 in. at Moscow. It will be gathered from these figures, and from Map 1, p. XV., that the distribution of mean pressure over the United Kingdom was of a strongly marked Southerly type, and the gradient about double the normal steepness, a situation favourable to the general prevalence of windy weather.

At one or more of the telegraphic reporting stations the wind, practically always from points in the southern half of the compass, attained the strength of a gale (force 8) on 23 days, and that of a strong gale (force 9) and upwards on 18 days. In a number of instances these gales were caused by the depressions centred well out on the ocean, others were due to the secondaries which crossed the country. Between the 2nd and 4th, when the centre of a deep depression was moving northward in about 25° W., a strong gale was felt in many places on our western and northern coasts, and heavy rain fell over a wide area. On the 2nd as much as 1·7 in. fell at Gruline (Mull), and on the 4th the rainstorm was general over a large part of England and Wales, the amounts ranging up to 1·5 in. at Ynis-y-fro, 1·6 in. at Newport (Mon.), 1·8 in. at Pant-yr-Eos, 2 in. at Princetown, and 2·1 in. at Tavistock. The gales of the 6th to the 8th were unimportant, except for the very heavy rains in some of the mountainous districts, 2·9 in. to 3·9 in. being registered about Snowdon. The most stormy period of the month set in on the 9th, when a strong South-Easterly gale sprung up locally in the far west and north, and by the following day it spread over the country generally, and became very violent, under the influence of the exceptionally deep cyclone on the ocean and an anticyclone covering the greater part of Europe. Between the centres of the opposing systems there was the steep pressure gradient of 3·4 in. in 2,000, and between the centre of the cyclone and the west coast of Ireland 2·2 in. in 750 miles. The situation became more complicated on the 11th and 12th owing to the passage across southern England of one of the secondary disturbances. From the 9th to the 12th a whole gale (force 10) was of daily occurrence on many sections of our coasts, Malin Head reporting a storm (force 11) on the 10th and 11th. In gusts the wind blew at the rate of 70 miles an hour at Roche's Point on the 10th. At first heavy rains accompanied the gale, the largest falls being in Ireland, on the 9th 1·5 in. at Cahir, and 1·8 in. at Templemore, and on the 10th 1·5 in. at Newcastle (Wicklow) and Dublin, and 1·7 in. at Kingstown. With the development of the secondary in the south the rain changed into snow on the 11th over the greater part of the Kingdom. The snowstorm was the heaviest and the most widespread experienced for many years, numbers of places reporting a depth of snow from 8 in. to 12 in., Rauceby had 14 in., Morpeth and Crieff 18 in., and Blairgowrie 22 in. The drifts were from 7 to 10 feet deep locally, and the railway and postal services were delayed. The precipitation (rain or melted snow) exceeded an inch at a considerable number of stations, 1·5 in. at Ushaw, Rauceby, Matlock, Abersychan, Pant-yr-Eos, and Old Road (Snowdon), and 1·6 in. in the Forest of Dean, at Ruardean and Worcester Lodge.

Strong gales were again felt on some coasts from the 14th to the 16th, a whole gale at Roche's Point, where, on the 14th, the gusts attained a velocity at the rate of 75 miles an hour. At Lerwick a whole gale from South-East was maintained daily from the 9th to the 16th. Though the secondary depression which crossed the southern districts between the 19th and 21st was very deep, there were few reports of gales, Portland Bill and Dover having a strong gale on the 20th, and the anemometer at Pendennis registering gusts of 66 miles an hour on the 19th. Heavy rain also affected only limited areas, very few falls of an inch. From the 21st to the 27th, there was much less wind, but there were considerable falls of rain, and on occasions snow. In Snowdonia there were rainfalls from 2·5 in. to 3·9 in. on the 22nd, and at Seathwaite 2·1 in. on the 24th. The 25th and 26th were the only quiet days of the month, the conditions becoming unsettled again immediately in the rear of the anticyclone of these dates, and from the 28th to the 31st gales were experienced in many districts, a strong gale at several stations, a whole gale at Dungeness on the 30th, and a gust of 71 miles per hour at Scilly on the 31st. Heavy rain fell on the 30th over Britain, up to 2·2 in. at Ardnadam, 2·5 in. at Gruline, and from 2·1 in. to 2·8 in. round Snowdon.

As a rule the month was of a mild open character, the temperature frequently mounting to 50° and upwards, touching 56° at Gordon Castle on the 7th, Fowey on the 10th, and Phœnix Park on the 24th; and 57° at Glasnevin and Trinity College, Dublin, on the 7th. There were also many high night minima, 50° at Dublin, De la Salle (Waterford), Birr Castle, Scilly and Penzance on the 7th or 8th, and 51° at Glasnevin on the 7th. There were, however, some sharp frosts, the severest on the 13th and 14th, when there were many records below 20°, as low as 10° at Newton Rigg, and 8° at Raunds. In another, between the 22nd and 26th, West Linton touched 17°, and Balmoral 13°. The frost of the 13th held throughout the day at many stations, the lowest of the maxima being 28° at Garforth, and 26° at West Witton.

For the midwinter month thunderstorms were fairly numerous, noted in many places on the 15th, 19th, 20th and 31st, frequently with hail or snow.

An aurora was witnessed at Deerness on the 17th.

Inland fogs were a little more frequent than in several previous Januarys. On the east coast of Britain fog was reported nearly every day, on the western coasts it was much less frequent, and along the English Channel rarely mentioned.

The coastal sea water was about 1° colder than during December, but in most localities it was from 3° to 4° warmer than the air on shore.

Rainfall.—There was a considerable deficiency of precipitation over northern Scotland, all other districts returning an excess. The percentages of the normal ranged from as low as 18 at Dunrobin, 32 at Strathpeffer, 38 at Nairn, and 44 at Glencarron to 200 and upwards in several neighbourhoods, 234 at Woolacombe, 238 at Glasnevin, 246 at Spurn Head, 252 at Dublin (City), and 261 at Shields. Less than ½ in. fell at Dunrobin and Fortrose 0·7 in., at Nairn, and an inch at Strathpeffer, whereas many stations totalled more than 10 in., Treherbert 15·3 in., Seathwaite 15·7 in., and half a dozen gauges about Snowdon from 20 in. to 23·5 in. Generally the frequency of precipitation was above the normal, 28 to 31 days at a number of places, but a few had less than 15 days, Temple Bruer 10, Fortrose 8, and Dunrobin 5.

Bright Sunshine.—Only a few isolated situations had an excess of insolation, Westminster returning a percentage of the average as high as 159, Greenwich 128, and Llandudno 117. Over the country as a whole there was a considerable deficiency, 36 per cent. of the normal at Newton Rigg and Stonyhurst, 35 at Durham, and 28 at Glasgow and York. At Bradford, Glasgow, Manchester (City) and Hull the duration was less than ¼ hour per day.

(28685—24.) Wt. 173—814. 1475. 2/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A.	Mean of B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands: *a* Castlebay	7, I, 9	48	9·463	−·257	9·550	45·0	39·6	42·3	+1·4	51	9th	32	31st	—	—	42·9	43·5	43·1	1·5	1·5	1·7	·244	·249	·241	88	88	86
Islands: *p* Deerness ... §	9, −, 9	163	9·468	—	9·644	42·2	37·2	39·7	+0·7	48	8th	31	31st	—	—	39·5	—	39·2	1·4	—	1·5	·217	—	·211	89	—	88
Islands: *a* Lerwick ... ¶	7, I, 9	59	9·644	−·022	9·710	42·2	37·1	39·7	+0·7	48	7th	31	22nd	—	—	40·4	40·6	40·1	2·4	2·5	2·4	·203	·203	·201	81	81	81
Islands: *a* Stornoway ... ¶§	7, I, 9	52	9·503	−·197	9·554	43·9	37·8	40·9	+2·1	50	6, 7, 9	29	26th	—	—	41·2	41·9	41·0	1·7	1·8	1·9	·223	·228	·217	87	87	85
Mainland: *a* Wick ... ¶	7, I, 9	94	9·530	−·135	9·637	41·9	36·1	39·0	+1·2	48	7th	29	26th	—	—	39·5	40·6	39·4	0·3	0·7	0·4	·236	·238	·233	98	94	97
Mainland: *p* Strathpeffer ¶§	9, −, 9	210	9·379	—	9·605	41·8	33·1	37·5	+0·8	51	8th	26	26th	—	—	35·9	—	36·5	1·5	—	1·6	·184	—	·186	87	—	86
Mainland: *a* Glencarron § ¶	9, −, 9	504	9·044	—	9·594	42·0	33·3	37·7	+0·6	55	8th	22	26th	—	—	37·4	—	37·8	2·4	—	2·3	·178	—	·184	80	—	81
Mainland: *p* Ft. Augustus § ¶§	9, −, 9	73	9·527	—	9·604	43·3	34·9	39·1	+1·0	53	8, 9	23	26th	—	—	38·2	—	39·2	1·9	—	2·2	·193	—	·197	84	—	82
Mainland: *p* Ft. William § ¶	9, −, 9	38	9·562	—	9·600	43·4	35·8	39·6	+0·8	54	7th	24	26th	—	—	38·7	—	39·9	2·7	—	3·0	·185	—	·192	77	—	77
Mainland: *p* Kingussie ... §	9, −, 9	828	8·718	—	9·628	39·2	31·2	35·2	—	50	7, 8	15	26th	—	—	34·8	—	33·1	1·7	—	1·8	·168	—	·176	83	—	84
Mainland: *p* Dunrobin ... §	9, −, 9	16	9·639	—	9·652	41·8	34·3	38·1	−0·1	50	8th	29	25, 26	38·2	—	37·9	—	37·8	1·7	—	2·0	·195	—	·189	86	—	83
1. SCOTLAND, E.																											
a Nairn ... ¶§	7, I, 6	82	9·525	−·184	9·621	41·4	31·5	36·5	−0·9	53	7th	23	22, 23	—	—	36·5	39·5	37·4	1·8	2·3	1·9	·183	·198	·187	84	82	84
p Gordon Castle § ¶	9, −, 9	107	9·533	—	9·649	41·5	34·4	38·0	−0·1	56	7th	23	14th	—	—	37·8	—	38·0	1·7	—	1·6	·194	—	·197	86	—	86
Aberdeen ... ¶§	9, 3, 9	90	9·602	−·149	9·701	41·8	35·6	38·7	+1·0	50	7th	25	14th	—	40·6	38·3	40·0	39·4	2·0	2·1	2·2	·192	·205	·199	83	83	83
			9·605	−·147	9·703			38·9	+0·7																		
a Balmoral ... § ¶	9, 3, −	927	8·653	—	9·676	40·0	29·4	34·7	—	52	7th	13	26th	—	—	33·1	38·7	—	1·7	2·0	—	·154	·197	—	81	85	—
p Braemar ... §	9, −, 9	1114	8·461	—	9·672	37·8	29·7	33·8	−0·4	49	7th	11	26th	—	—	33·0	—	34·3	1·1	—	1·0	·169	—	·179	87	—	89
p Dundee ... §	9, −, 9	164	9·521	—	9·700	40·5	33·1	36·8	−0·3	51	7th	21	14th	—	—	36·1	—	37·1	0·7	—	0·8	·203	—	·207	94	—	92
p Crieff ... § ¶	9, −, 9	436	9·197	—	9·691	39·3	31·7	35·5	−1·3	50	7, 8	21	26th	—	—	35·3	—	36·3	1·0	—	1·0	·187	—	·196	91	—	92
a Leith ... ¶	7, −, 6	37	9·636	−·194	9·679	42·5	34·5	38·5	−0·5	55	7th	25	14, 27	—	—	38·1	—	39·7	1·9	—	2·2	·193	—	·202	84	—	82
p West Linton S ¶	9, 3, 9	805	8·790	—	9·678	39·2	30·0	34·6	−1·2	50	7, 8	11	14th	—	—	33·8	36·6	35·2	0·9	1·5	1·0	·179	·191	·189	91	86	89
p Marchmont § ¶§	9, −, 9	500	9·170	—	9·720	39·5	31·5	35·5	−0·8	51	7, 8	15	14th	35·8	—	34·5	—	34·9	0·8	—	0·8	·184	—	·187	92	—	94
2. ENGLAND, N.E.																											
North: *p* Whitby	9, −, 9	145	9·574	—	9·741	43·2	35·0	39·1	−0·4	55	4th	23	14th	—	—	39·6	—	38·6	1·5	—	1·2	·218	—	·212	88	—	89
North: *p* Cockle Park §	9, −, 9	331	9·363	—	9·727	40·1	32·3	36·2	—	52	7th	21	14th	36·1	40·1	36·3	—	36·8	0·6	—	0·5	·205	—	·210	93	—	95
North: *a* Shields ... ¶	7, −, 6	117	9·606	−·186	9·734	42·3	33·3	37·8	−0·8	53	7th	24	14th	—	—	37·6	—	39·1	0·8	—	1·1	·210	—	·217	93	—	91
North: *p* Durham ... ¶§	9, −, 9	352	9·343	—	9·728	40·6	32·2	36·4	−0·5	52	7th	19	13th	—	—	36·1	—	36·9	0·5	—	0·4	·206	—	·211	95	—	96
North: *p* Rounton ... ¶	9, −, 9	245	9·455	—	9·719	41·4	33·2	37·3	+0·5	51	7th	21	14th	37·8	—	36·9	—	37·4	0·8	—	0·9	·203	—	·206	93	—	93
North: *p* Scarborough ¶§	9, −, 9	127	9·599	—	9·725	42·8	35·4	39·1	+0·6	51	7th	25	14th	—	43·0*	39·0	—	38·7	1·3	—	1·3	·214	—	·211	89	—	89
North: *p* York ... ¶§	9, −, 9	53	9·703	—	9·755	42·8	34·3	38·6	+0·9	52	7th	22	14th	39·4	43·1	37·4	—	38·1	0·8	—	0·8	·208	—	·213	93	—	93
South: *a* Spurn Head ¶	7, I, 6	28	9·718	−·205	9·752	42·6	36·6	39·6	+1·3	48	5, 7	30	14th	—	—	39·8	41·3	40·5	1·1	1·5	1·4	·223	·229	·222	92	88	89
South: *a* Lincoln ... ¶	9, −, −	42	9·747	—	9·784	43·2	34·2	38·7	+1·9	51	23rd	19	14th	37·4	43·6	38·5	—	—	0·6	—	—	·227	—	—	94	—	—
South: *a* Skegness ... §	9, −, −	16	9·780	—	9·788	43·0	35·8	39·4	—	51	23rd	26	13th	—	—	39·4	—	—	1·1	—	—	·220	—	—	91	—	—
South: *p* Hull	9, −, 9	12	9·769	—	9·775	43·2	35·2	39·2	+1·7	51	7th	26	13th	39·0	43·2	39·4	—	39·7	1·4	—	1·4	·214	—	·216	89	—	88
3. ENGLAND, E.																											
North: *p* Lowestoft	9, 3, 9	77	9·747	—	9·831	44·4	36·3	40·4	+2·2	52	23rd	29	13th	40·1	43·7	41·3	42·1	40·5	1·0	0·9	0·8	·240	·251	·239	92	92	94
North: *p* Cromer ... §§	9, −, 9	139	9·653	—	9·802	44·1	34·1	39·1	—	51	23rd	24	14th	—	—	38·3	—	38·4	0·6	—	0·4	·219	—	·224	95	—	97
North: *p* Lit. Massingham §§	9, 3, 9	280	—	—	—	43·2	33·6	38·4	+1·5	53	7th	20	14th	—	—	37·3	40·4	37·6	0·6	0·8	0·5	·211	·235	·215	95	94	96
North: *a* Yarmouth ... §	7, I, 9	27	9·798	−·168	9·828	44·2	37·3	40·8	+3·2	52	23rd	28	14th	39·8	44·7	40·2	42·2	40·9	1·0	1·3	1·2	·228	·241	·231	92	90	91
North: *p* Geldeston ... §§	9, −, 9	47	9·778	—	9·823	44·9	36·5	40·7	+2·7	53	23rd	26	13th	—	—	39·1	—	39·9	0·8	—	0·9	·223	—	·227	93	—	93
South: *p* Cambridge... ¶§	9, −, 9	43	9·745	—	9·785	45·0	35·2	40·1	+2·6	52	5, 23	24	13th	40·2	44·5	38·7	—	39·5	0·7	—	0·8	·226	—	·228	94	—	93
South: *a* Clacton ... ¶§	7, I, 9	54	9·754	−·201	9·819	44·4	37·8	41·1	+2·8	51	23rd	30	13, 14	42·1	45·6	40·4	42·8	41·8	0·6	1·2	1·1	·239	·249	·242	95	91	92
South: *p* Woburn	9, −, 9	294	9·488	—	9·808	44·5	35·6	40·1	—	51	5, 23, 31	23	13th	—	—	39·2	—	39·9	1·0	—	0·9	·224	—	·231	92	—	92
South: *p* Bennington ...	9, 3, 9	411	9·356	—	9·810	43·7	34·6	39·2	+1·9	50	5, 23, 31	22	13th	40·8	43·2	37·5	41·6	38·8	0·6	1·5	0·7	·216	·237	·223	94	88	94
South: *p* Berkhamsted ...	9, −, 9	397	9·373	—	9·807	44·8	34·8	39·8	+2·5	51	5th	22	13th	39·9	—	38·0	—	39·5	0·8	—	0·9	·216	—	·225	92	—	91
4. MIDLAND COUNTIES.																											
a Garforth	9, −, 9	198	—	—	—	41·6	31·0	36·3	—	52	7th	13	13, 14	39·7	43·1	36·2	—	37·0	0·5	—	0·7	·208	—	·212	95	—	93
p Huddersfield ...	9, 3, 9	411	9·281	—	9·735	42·5	34·0	38·3	—	52	7th	21	14th	38·5	42·7	37·2	39·5	37·9	0·8	1·5	1·0	·208	·215	·212	91	87	91
p Sheffield ... §	9, −, 9	450	9·262	—	9·755	42·8	34·7	38·8	+0·5	52	23rd	22	14th	39·0	43·1	37·8	—	38·7	0·8	—	1·1	·214	—	·216	93	—	90
a Worksop ... §	9, −, 9	67	9·691	−·230	9·759	42·8	32·6	37·7	+0·4	52	7, 23	13	14th	39·0	42·4	37·0	40·1	—	0·6	1·2	—	·208	·223	—	95	90	—
East: *p* Buxton	9, 3, 9	997	8·658	—	9·755	40·7	31·2	36·0	+0·7	48	7, 23, 25	16	14th	38·6	43·3	35·6	37·6	35·1	0·6	0·9	0·9	·197	·208	·187	95	92	91
East: *p* Belvoir Castle ...	9, −, 9	276	9·480	—	9·780	43·1	33·7	38·4	+1·1	51	23rd	15	13th	41·8*	43·9	37·1	—	38·1	0·6	—	1·0	·209	—	·209	95	—	91
East: *a* Coventry	9, −, −	309	9·443	—	9·775	44·1	34·9	39·5	+1·7	51	5, 23	23	13th	40·5	45·6	38·9	—	—	0·9	—	—	·219	—	—	93	—	—
East: *a* Thrapston	9, 3, −	251	—	—	—	43·5	33·3	38·4	—	51	5, 23	17	13, 14	—	—	37·9	41·4	—	0·8	1·5	—	·211	·230	—	93	89	—
East: *a* Nottingham ¶§	7, I, 9	85	9·666	−·240	9·760	43·4	33·5	38·5	+1·0	52	23rd	16	14th	38·5	41·7	37·8	41·3	38·7	0·3	1·1	0·7	·220	·236	·221	98	92	94
East: *p* Birmingham ¶§	9, −, 9	542	9·166	—	9·758	43·2	35·0	39·1	+1·3	50	23rd	26	14th	41·0	45·3	38·1	—	38·8	0·7	—	1·1	·219	—	·218	93	—	91
East: *a* Oxford ... ¶§	8, −, 8	212	—	—	—	45·8	37·6	41·7	+3·4	52	5, 31	29	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			9·555	−·227				41·3											1·4			·231			89		
West: *a* Bath ... ¶§	7, −, 6	84	9·680	−·241	9·776	48·1	36·3	42·2	+2·5	54	5th	27	13th	42·4	47·0	40·8	—	44·0	—	—	—	—	—	—	—	—	—
West: *p* Shrewsbury ¶	9, −, 9	212	9·504	—	9·729	45·8	34·1	40·0	+2·0	52	7, 23	21	13, 14	—	—	38·4	—	39·1	0·9	—	0·9	·219	—	·223	92	—	92
West: *p* Wistanstow ...	9, −, 9	484	9·197	—	9·726	44·1	34·0	39·1	—	51	3, 4, 23	22	13th	—	—	38·2	—	38·7	0·8	—	0·9	·214	—	·218	94	—	93
West: *p* Bromyard	9, −, 9	400	9·302	—	9·736	44·5	34·1	39·3	—	50	5, 9, 23	22	13th	39·5	43·4	38·8	—	38·9	0·9	—	0·9	·223	—	·223	92	—	92
West: *p* Cheltenham ...	9, −, 9	206	9·543	—	9·762	45·5	36·7	41·1	+2·8	51	5, 23, 30	28	13th	—	—	41·2	—	41·0	1·3	—	1·3	·231	—	·229	90	—	90
5. ENGLAND, S.E.																											
p Reading	9, −, 9	264	9·509	—	9·794	45·8	34·8	40·3	—	51	5, 23, 31	23	13, 22	—	—	39·2	—	40·7	0·5	—	0·5	·230	—	·243	96	—	96
p Salisbury	9, −, 9	186	—	—	—	46·1	35·6	40·9	+3·4	53	23rd	25	13th	41·8	—	40·3	—	41·2	0·6	—	0·9	·238	—	·240	96	—	93
a Grayshott	9, 2, −	659	9·106	—	9·834	44·5	35·6	40·1	—	49	9, 23, 30	28	13, 22, 26	40·5	—	39·0	42·9	—	0·5	1·6	—	·228	·242	—	96	87	—
a Midhurst	9, 2, −	493	9·269	—	9·812	45·5	37·0	41·3	—	50	23rd	30	13th	—	—	40·1	43·4	—	0·6	1·6	—	·237	·249	—	94	88	—
a Brighton	9, −, −	48	9·794	—	9·839	47·1	39·5	43·3	+3·5	50	5, 9, 25	29	13th	—	45·3	42·8	—	—	1·2	—	—	·249	—	—	91	—	—
a Portsmouth ...	9, −, −	18	9·820	—	9·832	48·4	39·7	44·1	+4·4	52	5th	29	13th	43·7	47·1	43·5	—	—	1·6	—	—	·248	—	—	87	—	—
p Eastbourne §	9, −, 9	36	9·793	—	9·825	47·8	40·7	44·3	+4·1	52	6th	30	13th	44·0	47·1	43·4	—	45·0	1·2	—	1·4	·258	—	·270	90	—	90
a Dover	7, −, 6	234	9·598	−·188	9·841	45·5	37·5	41·5	—	51	23rd	29	13, 14	42·8	46·6	41·1	—	42·7	1·3	—	1·7	·230	—	·237	89	—	86
a Dungeness... ¶	7, I, 6	21	9·784	−·219	9·809	47·0	38·9	43·0	+3·6	52	25th	29	14th	—	—	42·8	45·6	44·7	1·4	2·1	1·9	·245	·259	·253	89	85	86
p Hastings ... ¶	9, −, 9	174	9·639	—	9·823	46·8	39·3	43·1	+3·6	50	2, 23, 31	31	22nd	42·3	45·8	42·2	—	43·1	1·2	—	1·1	·243	—	·254	90	—	91
p Southampton ¶§	9, −, 9	84	9·719	—	9·805	47·6	38·2	42·9	+3·1	52	5, 23	26	13th	—	—	42·4	—	43·1	1·0	—	1·3	·256	—	·254	93	—	91
a Ventnor ... ¶§	9, 3, −	80	9·718	—	9·799	48·5	41·4	45·0	+3·3	51	5, 23, 30	33	26th	—	—	44·9	46·6	—	1·5	2·2	—	·263	·267	—	89	85	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

* At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of JANUARY, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr	Hr.	%	%				In.	In.	In.																					
0·65	—	9	—	7·7	8·3	7·8	5·00	—	0·46	8th	26	23	3	—	4	1	0	17	0	—	6	69	0	3	5	13	31	20	13	6	2	Castlebay.
0·73	−0·14	11	− 2	7·0	—	7·1	1·91	−1·50	0·32	15th	15	14	3	0	3	0	1	15	0	—	11	57	2	4	1	3	39	30	13	1	0	Deerness.
—	—	—	—	8·1	7·0	7·4	4·98	—	1·10	23rd	28	21	6	—	7	0	0	17	0	—	14	34	3	1	2	18	35	24	8	1	1	Lerwick.
0·83	−0·11	12	− 1	7·0	7·0	7·1	3·50	−1·75	0·61	30th	22	18	2	—	1	1	0	12	0	—	8	73	0	3	3	2	31	30	20	4	0	Stornoway.
—	—	—	—	7·5	7·2	7·1	1·32	−1·07	0·25	30th	15	11	3	—	4	0	0	9	0	—	11	38	5	1	0	1	27	39	14	3	3	Wick.
0·86	−0·20	12	− 3	6·1	—	6·1	0·98	−2·13	0·34	31st	12	10	5	6	0	0	6	12	0	—	1	20	43	2	0	10	12	6	10	8	2	Strathpeffer.
—	—	—	—	7·3	—	6·3	4·47	−5·70	1·00	30th	16	14	6	—	1	0	4	15	0	—	3	69	0	22	2	21	5	7	2	34	0	Glencarron.
0·43	−0·12	6	− 2	7·2	—	7·2	3·05	−2·52	0·82	30th	18	10	4	2	0	1	1	12	1	—	1	36	0	2	12	9	10	16	33	9	2	F. Augustus.
—	—	—	—	7·3	—	7·8	6·41	−2·66	1·60	30th	23	17	4	1	0	0	1	17	2	—	1	35	17	0	10	5	12	10	33	6	0	Ft. William.
—	—	—	—	7·4	—	8·0	1·32	—	0·40	11th	14	9	7	22	0	0	3	18	0	—	3	27	14	2	2	15	4	13	13	27	3	Kingussie.
—	—	—	—	6·0	—	6·9	0·48	−2·19	0·14	24th	5	5	1	0	0	0	3	11	0	—	3	20	12	8	3	45	6	6	6	7	0	Dunrobin.
1·09	—	15	—	6·9	6·6	7·5	0·72	−1·18	0·22	24th	12	5	2	—	0	0	0	9	0	—	2	10	28	1	0	10	18	8	16	8	4	Nairn.
1·07	—	15	—	5·8	—	6·4	1·10	−0·91	0·24	14th	14	6	7	2	0	0	2	6	0	—	2	33	0	0	4	48	18	21	1	1	Gordon C.
0·64	−0·97	9	−13	6·9	7·5	7·7	2·84	+0·66	0·66	30th	18	14	4	0	4	0	1	14	0	—	0	39	7	1	0	4	26	33	13	3	6	Aberdeen.
—	—	—	—	6·8	—	—	4·41	—	0·93	11th	22	19	9	21	0	0	9	20	0	21	7	18	0	3	0	18	15	9	21	12	15	Balmoral.
—	—	—	—	—	—	—	4·68	+1·69	0·64	30th	21	15	11	22	1	0	—	—	0	23	4	12	0	6	0	18	3	15	48	3	0	Braemar.
—	—	—	—	9·4	—	9·9	3·43	+1·32	0·46	12, 28	19	14	7	4	0	0	0	30	2	—	5	15	0	2	6	7	33	8	26	7	4	Dundee.
—	—	—	—	9·1	—	8·3	5·81	+1·35	1·24	11th	23	18	7	21	0	1	0	23	0	—	1	24	0	2	4	41	3	7	15	18	3	Crieff.
—	—	—	—	7·2	—	7·6	2·07	+0·34	0·32	11,24,31	16	13	5	—	0	0	0	17	5	—	0	17	5	2	6	7	33	10	20	10	0	Leith.
0·68	—	9	—	7·6	8·5	7·9	3·09	—	0·79	11th	18	13	13	19	1	0	1	17	0	21	0	10	24	1	6	7	15	19	15	3	3	West Linton.
0·67	−0·78	9	−10	7·5	—	6·4	3·11	+0·66	0·66	12th	17	14	6	8	0	0	4	16	0	15	1	21	0	13	3	22	2	20	6	25	2	Marchmont.
1·05	—	14	—	7·5	—	7·6	3·33	+1·57	0·68	11th	18	13	4	3	6	0	1	12	2	—	3	26	14	3	2	0	15	25	25	9	0	Whitby.
0·78	—	10	—	8·1	—	8·2	4·51	+2·47	1·15	12th	24	17	9	10	0	0	0	22	3	17	0	18	1	3	2	0	30	21	15	15	6	Cockle Park.
—	—	—	—	8·9	—	8·3	4·17	+2·57	0·95	11th	21	16	6	—	0	0	1	25	4	—	2	24	5	2	2	4	25	32	13	4	6	Shields.
0·50	−0·92	7	−11	9·2	—	8·7	2·53	+0·73	0·89	11th	19	14	9	4	0	0	0	24	7	10	3	27	19	3	0	8	13	33	9	6	2	Durham.
—	—	—	—	7·8	—	8·2	2·70	+0·94	0·46	5th	21	15	6	0	1	0	0	18	7	16	2	30	6	0	9	2	34	21	13	2	6	Rounton.
0·73	—	9	—	8·8	—	9·3	2·94	+1·07	0·47	11th	20	16	2	0	0	0	0	23	3	—	1	60	0	2	4	0	12	3	63	6	3	Scarborough
0·27	−0·70	3	− 9	8·0	—	7·0	3·19	+1·50	1·16	11th	22	13	4	0	0	0	4	18	6	—	0	3	3	12	0	8	19	36	7	6	2	York.
—	—	—	—	7·6	7·9	7·6	3·03	+1·80	0·48	4th	18	15	3	—	1	0	1	14	11	—	6	68	2	3	2	7	28	28	15	3	5	Spurn Head.
—	—	—	—	6·6	—	—	3·17	+1·54	1·32	11th	16	10	2	0	0	0	8	19	6	—	0	9	9	3	0	12	24	6	21	6	12	Lincoln.
1·35	—	17	—	8·1	—	—	2·70	—	0·74	11th	19	13	1	0	0	0	1	21	4	—	1	66	0	0	3	12	15	33	15	3	12	Skegness.
0·12	—	2	—	8·1	—	7·5	3·77	+2·07	0·98	11th	21	15	4	3	0	0	2	19	2	12	0	5	22	3	5	9	15	15	24	0	0	Hull.
1·51	—	19	—	6·5	6·6	6·5	2·45	+0·95	0·61	11th	19	15	5	0	0	0	2	11	1	10	2	55	0	4	1	2	22	26	20	14	4	Lowestoft.
1·44	—	18	—	8·5	—	7·2	2·24	—	0·59	11th	24	14	2	0	0	0	0	16	2	—	0	50	0	0	2	0	33	33	13	7	5	Cromer.
1·37	−0·15	17	− 2	7·4	7·2	6·1	3·17	+1·24	0·60	11th	20	16	3	4	0	0	1	10	3	18	0	17	0	6	2	5	15	28	22	12	3	L. Mas'gh'm.
1·42	—	18	—	6·7	7·1	6·1	3·06	+1·44	0·75	11th	22	19	1	—	0	0	1	10	5	—	1	33	0	1	1	7	22	31	13	12	6	Yarmouth.
1·56	−0·18	19	− 2	6·9	—	6·8	2·63	+1·10	0·47	29th	21	15	2	0	0	0	3	13	4	—	0	8	1	2	2	7	24	22	12	15	8	Geldeston.
1·73	+0·08	21	+ 1	6·7	—	6·0	2·22	+0·77	0·64	11th	17	13	2	1	4	0	4	12	4	19	1	6	7	3	2	4	36	19	5	11	6	Cambridge.
1·57	—	19	—	7·0	7·6	7·5	2·34	—	0·40	11th	21	13	4	—	1	0	0	15	2	5	1	37	1	1	1	7	25	20	13	20	5	Clacton.
1·52	—	19	—	7·9	—	7·6	2·84	—	0·41	22th	21	13	2	2	1	0	3	20	2	—	0	18	9	3	0	7	12	29	21	11	1	Woburn.
1·19	—	15	—	6·6	7·4	7·7	2·71	+0·74	0·76	11th	18	14	3	3	0	0	2	12	7	16	0	9	12	2	0	2	29	16	12	16	4	Bennington.
1·15	—	14	—	8·5	—	7·4	4·10	+1·73	0·71	19th	21	14	3	0	2	0	3	19	6	20	0	3	16	0	2	12	19	14	14	13	3	Berkh'mst'd
0·21	—	3	—	8·2	—	7·1	3·18	—	1·11	11th	22	13	4	11	1	0	2	17	6	—	0	3	8	9	6	13	14	31	6	6	0	Garforth.
0·60	—	8	—	7·7	7·6	7·7	3·87	—	0·80	11th	20	16	6	9	0	0	2	17	4	11	0	11	17	4	1	14	17	12	13	9	6	Huddersf'ld.
0·51	—	6	—	8·0	—	8·2	3·76	+1·00	0·95	11th	23	14	5	0	0	0	0	16	7	16	0	5	18	3	0	8	22	18	12	3	9	Sheffield.
0·61	−0·55	8	− 7	8·8	8·3	7·2	2·95	+0·96	1·07	11th	19	13	5	8	0	0	1	18	2	18	0	16	7	5	1	1	31	20	17	7	4	Worksop.
0·52	—	7	—	8·6	6·7	7·8	4·24	−0·42	0·59	22nd	23	15	6	4	0	0	1	17	0	17	0	0	10	4	1	7	21	13	19	14	4	Buxton.
1·44	—	18	—	7·3	—	5·5	2·55	+0·80	0·68	11th	18	12	4	3	0	0	4	13	10	13	2	29	18	3	0	1	15	24	19	8	5	Belvoir C.
0·89	—	11	—	7·3	—	—	3·94	+1·91	0·92	11th	19	16	2	0	0	0	8	22	1	18	0	8	18	0	3	9	24	24	9	3	3	Coventry.
1·57	—	20	—	8·2	7·1	—	2·88	—	1·03	11th	18	10	3	5	1	1	2	20	2	15	—	—	3	1	0	12	18	24	14	14	7	Thrapston.
0·82	—	10	—	7·6	7·7	6·4	2·88	+1·03	0·85	11th	21	10	4	—	0	0	3	15	3	13	1	35	0	3	4	13	17	21	20	13	2	Nottingham.
0·89	—	11	—	8·3	—	6·0	3·63	+1·59	0·87	4th	24	14	4	0	0	0	4	17	2	22	0	3	16	0	0	9	25	23	12	5	3	Birmingh'm.
1·65	+0·10	20	+ 1	—	—	—	3·01	+1·07	0·69	19th	19	12	2	—	3	0	—	—	4	12	0	—	—	—	—	—	—	—	—	—	—	Oxford.
				7·0			3·03	+1·09				13		1																	
1·05	—	13	—	7·4	—	8·3	4·79	+2·21	0·87	4th	21	16	—	—	—	—	4	20	—	—	—	26	5	0	6	7	15	24	18	16	2	Bath.
—	—	—	—	7·6	—	6·1	3·05	—	0·65	4th	17	13	3	2	1	0	2	14	4	17	0	9	19	0	0	0	19	23	21	5	6	Shrewsbury.
—	—	—	—	8·8	—	7·4	4·10	—	0·75	4th	21	15	4	2	1	0	3	22	5	13	0	8	49	0	2	2	10	4	21	2	3	Wistanstow.
—	—	—	—	7·5	—	6·3	3·98	—	0·95	4th	21	17	4	2	0	0	2	15	5	15	1	2	28	2	2	7	12	25	6	11	0	Bromyard.
1·33	—	16	—	7·4	—	6·7	4·62	+2·39	0·99	11th	20	15	2	0	1	0	2	15	0	14	3	21	9	0	0	0	21	22	36	2	3	Cheltenham.
1·83	—	22	—	7·2	—	7·5	3·17	+0·90	0·58	11th	21	13	2	0	1	0	3	19	2	—	0	6	33	4	0	6	9	21	10	8	2	Reading.
—	—	—	—	8·7	—	6·5	6·86	+3·82	1·14	4th	28	18	2	0	1	1	1	17	8	13	0	27	3	3	2	3	19	21	18	12	12	Salisbury.
1·34	—	16	—	7·0	8·4	—	5·57	—	1·15	11th	24	17	4	0	0	1	1	17	3	15	0	15	4	2	6	8	22	19	8	15	9	Grayshott.
1.18	—	14	—	6·8	8·6	—	6·13	—	0·94	11th	27	20	3	0	0	1	1	18	3	—	1	35	0	6	2	6	16	22	15	20	6	Midhurst.
1·57	−0·14	19	− 2	7·8	—	—	4·96	+2·48	0·87	11th	20	16	0	0	2	1	1	17	4	6	0	5	4	6	6	12	12	9	9	30	3	Brighton.
1·83	—	22	—	6·8	—	—	4·34	+1·85	0·86	11th	21	16	0	0	2	0	8	18	4	8	0	63	3	3	3	3	18	3	27	9	24	Portsmouth.
1·45	−0·36	17	− 5	7·6	—	6·7	5·37	+2·64	0·86	11th	21	18	0	0	3	0	5	17	1	—	3	12	1	8	1	2	15	6	36	4	20	Eastbourne.
1·61	—	19	—	7·4	—	6·5	3·02	—	0·45	11th	22	14	2	—	4	0	2	14	0	5	3	45	0	2	2	4	16	24	24	14	7	Dover.
—	—	—	—	7·3	7·6	7·4	3·52	+1·67	0·45	30th	18	15	0	—	0	0	0	9	2	—	5	62	0	2	1	7	18	25	20	15	5	Dungeness.
1·62	−0·35	19	− 4	7·4	—	7·4	4·69	+2·19	0·88	13th	21	16	0	0	1	1	3	18	2	6	2	51	2	2	0	4	24	21	24	10	6	Hastings.
1·18	−0·50	14	− 6	7·0	—	6·0	5·27	+2·47	0·93	11th	24	18	1	0	1	1	6	16	8	11	0	20	0	0	8	0	30	0	46	0	9	S'mpton.
1·55	−0·32	18	− 4	6·6	8·0	—	3·59	+0·80	0·65	11th	23	17	0	0	3	1	1	16	0	—	1	38	6	2	2	16	12	21	18	10	6	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B	Difference from Average.	Absolute Maximum and Minimum. Max	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		F.°		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·740	—	9·794	46·7	37·4	42·1	+3·1	52	5, 23	27	13th	—	45·8	40·3	—	41·7	0·9	—	0·9	·235	—	·248	92	—	93
p Hampstead ...	9, –, 9	453	9·337	—	9·829	44·2	36·3	40·3	—	50	5, 23, 24	28	13th	—	—	39·3	—	40·3	0·9	—	1·0	·223	—	·229	93	—	92
a Camden Square ...	9, –, 9	123	9·686	—	9·815	46·1	36·4	41·3	+2·7	52	5, 23	27	13, 27	40·9	45·1	40·5	—	41·9	0·8	—	1·3	·235	—	·239	93	—	89
a Westminster ...	9, 3, –	—	—	—	—	47·3	38·1	42·7	+3·5	53	23rd	28	13, 14	—	—	41·3	45·0	—	1·1	2·2	—	·236	·249	—	92	84	—
a South Kensington*	9, 3, 6	70	9·744	—	9·816	47·0	39·1	43·1	—	53	23rd	31	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Greenwich... ...	9, –, 9	159	9·623	—	9·812	46·1	35·9	41·0	+2·6	52	23rd	26	13th	—	44·8	39·8	—	40·8	1·0	—	1·2	·225	—	·230	92	—	90
			9·618	–·193	9·815			41·1	+2·5																		
Kew ... ¶§	9, 3, 9	34	9·774	–·229	9·810	46·0	37·0	41·5	+2·8	52	23rd	25	13th	41·9	46·0	40·0	44·4	41·5	1·4	2·4	1·6	·218	·240	·229	89	82	88
			9·773	–·229	9·810			41·7	+2·8																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	8·838	—	9·697	39·1	31·4	35·3	—	49	7th	18	14th	—	—	34·2	36·7	35·3	0·8	1·0	0·8	·181	·199	·191	88	90	91
p Poltalloch ... § ¶	9, –, 9	135	9·466	—	9·613	42·2	34·6	38·4	–0·8	50	6, 7	26	26th	—	—	38·5	—	38·7	1·4	—	1·3	·205	—	·210	88	—	90
p Glasgow ... ¶§	9, –, 9	184	9·447	—	9·646	41·9	35·3	38·6	+0·2	52	7th	23	14th	—	—	37·4	—	38·5	1·3	—	1·4	·201	—	·209	88	—	88
p Rothesay ... § ¶	9, –, 9	76	9·552	—	9·632	42·6	36·3	39·5	0·0	51	8, 9	28	26th	—	42·7	36·5	—	39·2	1·5	—	2·2	·203	—	·197	87	—	82
a Colmonell ... § ¶	9, 3, –	150	9·488	—	9·658	43·4	34·2	38·8	–0·5	51	6th	21	14th	—	—	38·7	41·1	—	0·8	1·4	—	·220	·228	—	94	89	—
p Dumfries ... § ¶	9, –, 9	155	9·533	—	9·703	42·2	33·4	37·8	–0·6	49	4, 10, 24	17	14th	37·9	41·6	36·7	—	37·9	1·1	—	1·3	·196	—	·203	90	—	89
p Cally ... § ¶	9, –, 9	120	9·561	—	9·691	42·7	34·6	38·7	+0·4	50	7th	19	14th	—	—	38·4	—	39·0	1·4	—	1·5	·204	—	·209	88	—	88
p Douglas ... ¶§	9, –, 9	284	9·355	—	9·662	45·7	38·5	42·1	+1·5	50	7th	29	13th	—	—	41·2	—	41·4	1·1	—	1·1	·239	—	·240	90	—	91
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·673	—	9·717	43·3	34·9	39·1	+0·5	52	7th	23	14th	37·8	41·6	38·4	41·0	38·9	1·0	1·6	1·0	·219	·227	·222	92	87	92
p Manchester (City)	9, –, 9	195	9·521	—	9·730	44·6	36·8	40·7	—	52	7th	29	26th	39·5	44·2	40·2	—	40·7	1·2	—	1·5	·229	—	·226	90	—	88
p „ (WhitworthPk.)¶	9, –, 9	127	9·585	—	9·719	44·4	36·1	40·3	—	52	7th	27	14, 26	—	—	39·7	—	40·0	1·4	—	1·5	·216	—	·217	89	—	88
p Darwen	9, –, 9	730	8·932	—	9·730	40·6	33·2	36·9	—	49	7th	26	14th	38·0	42·0	37·0	—	37·3	0·6	—	0·8	·212	—	·210	94	—	93
p Egremont	9, –, 9	354	9·295	—	9·679	43·0	35·2	39·1	—	50	7th	25	13th	39·5	43·0	39·0	—	38·9	1·3	—	1·2	·215	—	·216	88	—	89
p Aspatria ... ¶§	9, –, 9	254	9·398	—	9·672	43·5	34·7	39·1	+1·9	51	7, 8	24	13, 14	40·0	44·1	38·4	—	39·0	1·2	—	1·3	·211	—	·215	89	—	88
p Newton Rigg ¶§	9, –, 9	559	9·078	—	9·690	41·0	31·2	36·1	–0·7	50	7, 8	10	13th	38·6	41·6	35·7	—	36·7	0·7	—	0·7	·196	—	·204	94	—	94
p Stonyhurst ¶§	9, –, 9	363	9·333	—	9·728	42·4	35·0	38·7	+1·0	51	7th	25	13, 14	—	—	38·7	—	38·8	1·8	—	1·9	·203	—	·200	84	—	83
p Blackpool ... ¶§	9, –, 9	73	9·632	—	9·706	43·0	34·8	38·9	+0·5	52	7th	23	13, 14	40·4	45·2	38·7	—	38·4	1·0	—	0·8	·221	—	·220	92	—	93
p Liverpool (Bid.) ¶	9, –, 9	202	9·490	—	9·705	43·8	35·3	39·6	+0·3	53	7th	27	14th	—	—	38·4	—	39·4	1·0	—	1·3	·212	—	·216	92	—	90
p Llandudno... ¶§	9, –, 9	32	9·677	—	9·705	45·5	37·9	41·7	+0·4	54	7th	30	14, 26	—	—	41·9	—	41·9	1·7	—	1·7	·230	—	·230	88	—	88
a Holyhead ... ¶	7, 1, 9	48	9·598	–·300	9·650	46·5	39·7	43·1	+1·2	52	9th	32	14th	—	—	43·0	44·7	43·3	—	—	—	—	—	—	—	—	—
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	47·2	36·1	41·7	+1·6	55	8th	25	15th	41·2	45·0	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	9·653	—	9·679	47·2	39·7	43·5	—	53	9th	29	22nd	43·2	45·8	44·3	—	43·1	1·3	—	0·4	·261	—	·269	90	—	97
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·096	—	9·741	44·4	34·2	39·3	+2·8	51	7th	19	26th	40·7	45·5	39·4	—	—	0·8	—	—	·226	—	—	94	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·502	–·313	9·667	48·3	41·5	44·9	+2·3	52	7th	32	14th	—	—	44·5	45·9	44·9	1·2	1·9	1·6	·266	·266	·261	90	87	88
a Portland Bill ¶	7, 1, 9	23	9·718	–·271	9·756	49·1	43·0	46·1	+5·2	52	5th	36	13,22,27	—	—	40·3	47·5	46·7	1·8	2·0	1·6	·272	·281	·281	88	86	89
p Plymouth ... ¶§	9. 3, 9	116	9·618	—	9·745	49·4	40·5	45·0	+2·9	53	23, 28	29	14th	44·8	—	45·3	47·2	45·1	1·3	2·0	1·4	·272	·278	·267	90	86	89
Falmouth ... ¶§	9, 3, 9	183	9·549	–·288	9·749	48·8	41·4	45·1	+1·6	52	24th	34	14th	—	—	44·8	47·0	44·9	1·6	2·3	1·8	·260	·268	·256	88	84	87
			9·551	–·287	9·750			45·4	+1·7																		
p Cardiff	9, –, 9	216	9·522	—	9·761	45·9	37·0	41·5	+1·2	51	23rd	27	13th	42·0	45·5	41·1	—	41 5	0·9	—	1·0	·238	—	·241	92	—	91
a Newquay ... §	7, –, 6	161	9·546	–·283	9·717	48·6	39·8	44·3	+0·6	53	24, 25	31	14, 26	45·3	—	44·1	—	45·5	1·1	—	1·7	·264	—	·266	91	—	88
p Woolacombe ...	9, –, 9	120	9·621	—	9·746	48·5	40·2	44·4	+1·4	52	7, 9	33	13, 26	—	—	45·0	—	44·8	1·3	—	1·3	·268	—	·268	90	—	90
a Princetown ...	9, 3, –	1360	8·252	—	—	43·3	35·4	39·4	—	47	3 ,28, 30	26	13th	—	—	38·9	40·7	—	0·5	0·8	—	·227	·237	—	96	93	—
p Sheepstor	9, 3, 9	730	8·928	—	9·727	46·2	35·0	40·6	—	50	5, 28	23	13, 14	—	—	40·9	43·7	40·5	0·6	1·4	0·6	·249	·257	·245	95	89	95
p Teignmouth ...	9, 3, 9	20	9·744	—	9·746	49·5	40·1	44·8	—	55	23rd	28	13th	—	—	43·7	47·1	45·2	1·4	2·4	1·7	·254	·267	·262	90	83	87
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·249	–·338	9·507	44·4	36·2	40·3	–1·0	51	7th	31	14, 27	—	—	40·0	42·0	41·0	1·1	0·9	1·0	·224	·247	·235	91	93	92
West. *a* Blacksod Point ¶	7, 1, 9	41	9·423	–·416	9·467	46·5	39·5	43·0	+0·2	52	3, 9	32	13th	—	—	43·3	45·1	43·9	1·4	1·3	1·4	·250	·270	·256	89	90	89
West. *p* Markree Castle ¶§	9, –, 9	127	9·413	—	9·548	45·9	33·8	39·9	+0·4	55	11th	24	13, 26	41·0	44·6	38·4	—	39·3	1·1	—	1·2	·215	—	·220	91	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	9·575	–·288	9·620	44·9	37·3	41·1	+0·7	51	7th	27	13th	—	—	40·6	43·3	41·6	1·3	1·9	1·3	·225	·239	·236	89	85	90
East. *p* Armagh ... ¶§	9, –, 9	202	9·362	—	9·577	45·0	35·8	40·4	+1·4	53	7th	21	13th	40·0	43·6	39·6	—	40·0	1·4	—	1·3	·218	—	·225	88	—	89
East. *a* Belfast	9, –, 9	55	—	—	—	45·4	34·8	40·1	—	54	7th	25	13, 14	—	—	39·9	—	40·2	1·4	—	1·2	·221	—	·229	88	—	90
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	45·3	34·3	39·8	—	53	7th	25	13th	—	—	38·4	—	39·6	0·9	—	0·9	·214	—	·225	93	—	93
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	48·9	37·8	43·4	—	57	7th	25	13th	41·9	44·7	42·7	—	43·8	1·9	—	2·0	·239	—	·247	86	—	85
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·439	—	9·610	47·8	34·6	41·2	+1·1	56	24th	19	13th	—	—	41·3	—	41·2	1·5	—	1·4	·234	—	·235	88	—	89
East. *p* „ (City)... ¶	9, –, 9	53	9·548	—	9·601	47·7	39.0	43·4	+1·7	55	7th	28	13th	—	—	42·1	—	43·1	1·6	—	1·7	·240	—	·246	88	—	87
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·365	–·392	9·559	46·0	35·2	40·6	+0·9	53	6, 7	26	13, 14	41·4	44·6	39·6	44·0	42·2	1·0	1·6	1·9	·223	·252	·229	92	87	86
West. Valencia ... ¶§	9, 3, 9	45	9·502	–·390	9·551	47·9	39·8	43·9	–0·7	52	9th	31	26th	—	—	43·9	46·1	43·6	1·5	2·0	1·4	·254	·266	·252	88	86	89
			9·504	–·387	9·554			44·3	–0·4																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·562	–·348	9·614	48·2	39·9	44·1	+0·6	52	22,23,30	31	13. 15, 26	—	—	44·0	46·9	45·1	0·3	1·1	0·6	·281	·295	·286	98	93	95
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·504	—	9·558	47·1	35·4	41·3	—	53	7, 23, 30	24	26th	42·0	—	40·3	44·7	40·4	0·7	1·5	0·7	·243	·266	·243	94	89	94
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·538	–·296	9·701	50·2	42·9	46·6	+0·8	53	9, 24	35	17th	—	—	46·9	48·2	46·9	1·1	1·4	1·0	·295	·302	·298	93	91	93
a Jersey ... ¶§	7, 1, 9	36	9·803	–·209	9·844	49·5	41·7	45 6	+3·2	52	5, 22, 26	35	3, 14, 22	—	—	45·5	47·4	46·2	1·5	2·0	1·6	·270	·279	·276	89	86	89
p Guernsey (Brooklyn).	9, –, 9	311	9·481	—	9·814	49·3	42·6	46·0	+2·7	52	5, 23, 31	38	12, 14, 31	45·6	48·0	45·6	—	45·6	1·9	—	1·7	·263	—	·271	86	—	87
a Gibraltar ...	7, 1, 9	53	0·129	—	0·187	61·9	50·6	56·3	—	71	28th	43	19, 20	—	—	53·4	59·8	55·6	2·4	4·6	2·9	·347	·380	·362	84	74	81

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet in previous issues is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m. and 6 p.m. or 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of JANUARY, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.													Force (0-12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
0·65	—	8	—	8·9	—	8·0	2·92	—	0·70	11th	14	13	1	1	0	0	1	23	4	15	0	2	8	3	2	4	18	16	30	6	6	Tottenham.
0·82	—	10	—	6·7	—	7·4	2·75	—	0·58	11th	20	13	2	1	0	0	4	16	10	14	0	2	28	2	0	10	15	15	15	8	0	Hampstead.
0·80	—	10	—	7·8	—	—	2·57	+0·70	0·50	11th	17	13	1	0	0	0	3	21	5	11	—	—	24	0	3	6	12	24	3	15	6	Camden Sq.
0·97	+0·36	12	+ 5	—	—	—	2·23	—	0·37	22nd	19	14	1	0	0	0	—	0	5	11	—	—	—	—	—	—	—	—	—	—	—	Westminster
0·86	—	10	—	7·3	—	7·7	2·07	—	0·39	22nd	16	13	0	—	0	0	4	20	6	12	0	17	6	2	1	14	12	22	24	10	2	S.Kensingtn
1·76	+0·39	21	+ 5	7·1	—	6·6	2·65	+0·77	0·38	22nd	20	14	1	0	0	0	5	15	6	15	0	10	12	3	2	4	15	15	26	15	1	Greenwich.
1·33	−0·02	16	− 1	7·1	7·9	7·5	2·55	+0·76	0·39	22nd	18	14	1	0	1	0	4	18	6	15	0	19	14	1	1	15	12	22	18	7	3	Kew.
0·38	—	5	—	8·5	8·7	7·6	4·49	—	1·02	30th	21	17	11	10	0	0	1	21	2	—	1	43	23	3	2	6	21	21	15	0	2	Eskdalemuir
—	—	—	—	8·7	—	8·3	6·39	+1·36	1·35	30th	22	20	3	—	1	0	1	24	0	—	2	33	6	3	2	9	29	21	10	12	1	Poltalloch.
0·21	−0·53	3	− 7	8·6	—	9·0	3·51	−0·11	0·69	30th	20	15	5	5	0	1	0	21	0	9	0	12	17	1	4	25	17	13	11	4	1	Glasgow.
—	—	—	—	7·7	—	7·3	6·81	+2·21	1·14	30th	23	20	5	7	2	1	2	18	9	—	2	27	9	3	2	26	19	15	4	15	0	Rothesay.
—	—	—	—	7·4	—	—	6·28	+1·69	1·20	11th	20	16	3	4	0	0	4	17	0	12	1	42	0	3	3	24	27	15	9	9	3	Colmonell.
0·75	—	10	—	7·2	—	5·9	4·11	+0·11	0·71	11th	22	17	4	10	0	0	1	12	0	20	1	12	0	2	7	2	46	10	24	0	2	Dumfries.
—	—	—	—	—	—	—	7·99	+3·34	1·35	15th	18	15	3	5	1	0	—	—	1	—	1	20	0	3	15	6	39	0	10	2	18	Cally.
1·44	−0·14	19	− 1	8·1	—	6·5	4·64	+0·64	0·83	11th	20	16	5	0	3	0	2	17	8	8	4	30	1	2	8	5	31	19	8	16	3	Douglas.
1·13	−0·19	14	− 3	7·5	6·9	7·1	3·80	+1·10	0·66	11th	21	15	2	6	3	0	0	12	2	12	1	65	4	6	1	8	45	11	10	6	2	Southport.
0·21	—	3	—	6·6	—	6·1	3·60	+0·71	0·73	4th	18	13	5	0	1	0	0	5	0	4	0	14	0	5	6	22	27	10	12	5	6	Manchester.
0·56	—	7	—	7·9	8·2	6·6	2·94	—	0·68	4th	18	13	6	0	0	0	1	18	1	13	0	20	20	4	1	15	27	14	10	2	0	Whitwth Pk.
0·29	—	4	—	9·5	—	8·2	6·57	—	1·38	11th	23	17	7	4	2	1	0	22	2	13	0	35	2	3	3	0	22	39	12	7	5	Darwen
0·93	—	12	—	6·4	—	6·4	4·18	—	0·65	23rd	22	20	3	3	0	0	6	13	0	15	3	36	4	7	0	2	34	36	3	2	5	Egremont.
1·32	—	17	—	6·5	—	4·6	2·45	−0·44	0·62	23rd	17	14	5	0	0	0	4	9	0	17	0	11	13	4	2	12	18	22	15	5	2	Aspatria.
0·47	−0·82	6	−11	7·4	—	6·2	3·28	−0·08	0·54	24th	21	16	8	1	0	0	2	13	1	25	2	33	5	3	0	13	30	24	12	6	0	N'wt'n Rigg.
0·40	−0·70	5	− 9	8·9	—	7·7	4·81	+0·72	0·85	30th	20	15	6	1	5	1	1	20	0	18	0	18	18	4	8	12	15	16	11	6	3	Stonyhurst.
0·86	−0·37	11	− 4	8·5	—	7·7	4·30	+1·54	0·82	23rd	18	14	3	3	2	0	0	15	0	20	0	51	0	6	2	18	37	12	10	8	0	Blackpool.
1·62	—	20	—	7·1	—	7·0	2·71	+0·57	0·62	11th	18	13	7	0	2	0	2	15	3	—	0	27	0	6	0	19	43	5	10	8	2	Liverpool.
1·82	+0·27	23	+ 4	7·9	—	7·7	3·62	+1·00	0·71	11th	21	14	1	0	1	0	3	21	0	—	0	14	0	6	0	12	0	39	8	28	0	Llandudno.
—	—	—	—	6·7	7·1	7·0	4·33	+1·24	0·51	11th	25	15	0	—	2	0	3	14	0	—	5	66	4	2	5	4	22	23	25	7	1	Holyhead.
1·10	—	14	—	—	—	—	5·66	—	1·00	30th	19	19	—	—	—	—	—	—	—	16	—	—	—	—	—	—	—	—	—	—	—	Bettws.
1·73	—	22	—	6·5	—	5·5	4·00	—	0·54	30th	17	17	0	0	0	0	6	11	0	9	3	48	16	5	2	6	6	37	18	3	0	Dwyran.
0·79	—	10	—	8·9	—	—	7·71	—	1·41	22nd	26	21	2	0	4	0	0	23	4	15	0	30	24	0	0	0	15	21	15	12	6	Llangamch.
0·87	−0·87	11	−10	7·3	7·3	7·2	6·52	+2·98	0·80	19th	28	24	1	—	1	0	0	8	3	—	11	60	0	6	2	4	15	25	18	17	6	Pembroke.
—	—	—	—	6·6	7·5	6·4	3·95	—	0·78	11th	23	17	0	—	3	1	0	8	1	—	6	67	2	0	4	5	18	19	19	19	7	Portl'nd Bill
1·24	−0·41	15	− 4	8·2	8·0	5·7	7·66	+4·09	1·18	4th	28	24	0	0	5	0	0	12	2	?12	0	23	11	4	1	10	15	9	17	19	7	Plymouth.
1·79	−0·05	21	− 1	7·3	7·1	5·6	7·47	+2·70	1·03	10th	28	24	0	0	5	1	1	10	0	—	0	26	8	3	2	2	7	19	25	22	5	Falmouth.
1·14	—	14	—	—	—	—	7·26	+3·43	1·35	4th	24	19	—	—	—	—	—	—	—	?	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
1·59	−0·12	19	− 1	7·3	—	6·5	5·13	+1·79	0·59	10th	30	27	0	—	2	0	2	12	3	—	1	45	0	2	0	3	29	19	18	16	6	Newquay.
1·48	−0·20	18	− 2	7·3	—	6·7	5·92	+3·39	0·85	4th	25	18	0	0	4	2	2	11	1	—	0	68	0	3	3	15	31	6	23	7	5	Woolac'mbe.
—	—	—	—	9·7	9·2	—	14·27	—	1·98	4th	30	28	9	1	6	2	0	26	15	—	0	50	0	0	5	0	18	13	25	14	18	Princetown.
—	—	—	—	8·0	7·6	6·2	12·70	—	1·71	4th	30	27	6	5	10	3	1	12	7	—	1	33	18	1	3	6	29	8	11	9	8	Sheepstor.
1·28	—	15	—	7·4	7·8	6·7	7·27	—	1·22	4th	22	21	0	0	1	2	0	15	4	8	3	42	0	2	2	2	7	18	18	35	9	Teignm u h
—	—	—	—	6·5	6·8	6·6	2·10	−0·54	0·21	23rd	26	19	0	—	2	0	0	6	0	—	11	59	0	2	3	2	6	49	23	6	2	Malin Head.
—	—	—	—	9·4	9·4	7·3	7·26	+2·32	0·92	23rd	27	26	0	—	4	1	0	22	2	—	11	60	0	3	2	2	20	33	23	7	3	Blacksod Pt.
1·07	−0·28	14	− 3	7·5	—	6·1	6·80	+2·99	1·40.	9th	23	20	4	0	2	2	2	13	1	17	2	12	31	3	2	3	22	21	9	0	2	Markree Cas.
—	—	—	—	6·9	7·2	7·1	4·43	+1·75	0·52	14th	24	20	1	—	3	0	0	15	3	—	3	30	0	3	3	5	28	29	19	6	0	Donaghadee.
1·14	−0·31	15	− 4	7·5	—	6·9	3·70	+1·01	1·09	10th	21	16	2	2	0	0	3	16	0	11	0	25	15	0	2	3	19	32	20	1	1	Armagh.
—	—	—	—	—	—	—	6·28	+3·39	0·93	10th	24	21	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	6·5	—	5·7	5·44	—	1·10	9th	23	17	1	1	0	3	2	10	1	—	7	21	8	3	3	9	34	18	13	3	2	Newtown-forbes.
1·07	—	14	—	7·1	—	5·6	5·35	—	1·44	10th	20	18	2	0	0	0	4	11	4	16	0	6	15	0	0	2	31	10	15	18	2	Dublin T. C.
1·54	−0·33	19	− 5	7·3	—	5·6	3·90	+1·66	0·70	10th	21	15	2	1	0	0	4	12	0	18	0	21	18	1	2	3	17	17	24	9	2	Phœnix P'k.
—	—	—	—	6·5	—	6·1	5·58	+3·37	1·52	10th	21	18	4	0	3	0	3	12	2	5	5	24	6	2	2	3	21	19	22	16	2	Dublin (City).
1·01	−0·64	13	− 8	8·0	7·1	7·5	4·77	+1·88	0·99	9th	24	21	1	—	0	0	0	10	1	?18	0	19	0	0	0	2	38	17	24	2	10	Birr Castle.
1·22	−0·43	15	− 5	7·3	7·7	7·5	10·59	+4·63	1·01	7th	30	27	3	0	9	2	0	14	0	—	1	43	1	1	3	5	14	35	22	8	4	Valencia.
—	—	—	—	7·3	7·3	6·2	6·55	+1·60	1·15	9th	30	22	1	—	1	0	1	10	2	—	9	40	2	7	1	0	4	23	28	19	9	Roche's Pt.
1·51	—	19	—	7·4	7·5	5·3	5·05	—	1·18	9th	24	20	3	2	1	0	2	12	0	18	7	31	9	0	0	0	19	32	25	4	4	Limerick.
1·79	−0·11	21	− 2	7·3	7·1	6·8	5·87	+2·49	0·70	10th	29	26	0	—	1	0	0	7	0	—	11	65	1	2	2	3	9	23	16	30	7	Scilly.
1·29	−0·87	15	−10	8·1	8·3	6·1	4·68	+1·56	0·80	29th	24	21	0	—	3	0	0	9	2	—	1	51	0	0	1	9	21	17	24	17	4	Jersey.
1·32	−0·42	16	− 4	7·7	—	5·9	5·98	+2·39	0·71	29th	26	19	0	0	7	0	2	8	5	3	8	47	2	0	0	8	13	28	19	17	6	Guernsey.
—	—	—	—	5·9	5·6	3·9	2·68	—	0·49	9th	16	13	0	0	0	1	6	9	0	0	0	24	8	0	0	17	2	0	1	34	31	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JANUARY, 1913.

DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Ft.	°	°	°		°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
p Baltasound	...	§	31	41·6	36·0	38·8	—	48	7, 8	27	22nd	38·0	—	2·74	—	0·47	30th	29	2	3	1	0	—	0·53	—	—	—
p Dunrossness	...	...	161	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Fortrose	...	...	69	42·7	34·4	38·6	—	51	6, 7, 8	29	26, 27	—	—	0·43	—	0·13	24th	8	1	0	0	0	—	1·16	—	16	—
1. SCOTLAND, E.																										
a Crathes	...	§ §	140	40·8	30·9	35·9	—	52	7th	19	14th	36·1	39·0	6·84	—	1·26	30th	19	7	4	0	0	19	0·62	—	8	—
p Stonehaven	...	...	86	43·6	33·5	38·6	—	53	1st	24	14th	—	—	2·19	—	0·37	28, 30	18	1	0	0	0	—	0·80	—	11	—
p Balruddery	...	§ §	276	40·9	32·0	36·5	—	52	8th	21	14th	—	—	3·39	—	0·66	13th	16	1	0	0	0	—	0·54	—	7	—
a Carnoustie	...	...	39	41·6	34·3	38·0	—	51	7th	27	26th	—	—	3·31	—	0·70	28th	19	0	0	0	0	—	0·75	—	10	—
a St. Andrews	...	...	20	41·3	33·8	37·6	—	53	7, 8	20	14th	37·0	41·1	3·95	—	0·72	13, 29	16	2	0	0	0	17	0·71	—	9	—
2. ENGLAND, N.E.																										
a Alnwick Castle	...	¶	210	42·1	32·5	37·3	− 0·5	53	7th	22	14th	—	—	4·07	+1·96	1·02	11th	18	5	1	0	0	—	—	—	—	—
a Bellingham	...	...	848	38·9	30·3	34·6	—	50	7th	18	14th	—	—	3·54	—	0·47	28th	23	6	0	0	4	—	—	—	—	—
a Tynemouth	...	...	90	41·8	34·5	38·2	—	53	7th	24	14th	38·8	42·2	4·28	—	0·96	12th	19	6	2	0	3	11	0·34	—	4	—
a Chopwellwood	...	...	445	40·9	31·3	36·1	—	52	7th	20	14th	—	—	4·38	—	1·26	11th	18	3	1	0	0	22	0·61	—	8	—
a Ushaw	...	...	599	39·6	31·8	35·7	—	50	7th	21	14th	—	—	4·59	—	1·49	11th	19	8	2	0	9	—	—	—	—	—
a Ampleforth	...	...	349	40·7	32·3	36·5	—	50	7th	20	14th	—	—	3·35	—	0·85	11th	22	4	0	0	11	—	—	—	—	—
a West Witton	...	...	605	39·8	31·3	35·6	—	50	7th	17	14th	37·9	41·0	5·56	—	1·15	11th	23	9	0	0	8	17	—	—	—	—
a Fulbeck	...	... ¶	180	42·4	33·5	38·0	+ 1·8	51	23rd	18	14th	—	—	2·58	+0·91	0·63	11th	18	—	—	—	—	20	—	—	—	—
a Rauceby	...	... §	124	42·8	32·6	37·7	—	52	23rd	13	14th	39·4	44·1	3·17	+1·32	1·52	11th	19	5	0	0	2	19	1·07	—	13	—
3. ENGLAND, E.																										
a Norwich	...	... ...	93	43·4	35·2	39·3	—	52	23rd	24	13, 14	38·7	—	2·92	—	0·82	11th	20	2	0	0	2	15	1·56	—	19	—
a Peterborough (Eye)	...	...	16	43·4	33·9	38·7	—	51	5, 23	18	14th	—	—	1·69	—	0·50	11th	19	4	1	0	7	—	—	—	—	—
a Ridgewell	...	...	269	43·8	34·2	39·0	—	51	23rd	26	13th	—	—	2·55	—	0·79	11th	20	3	1	1	4	—	—	—	—	—
a Felixstowe	...	...	10	44·5	37·5	41·0	+ 2·5	51	23rd	28	13th	—	—	2·81	—	0·73	11th	21	1	0	0	3	—	1·70	—	21	—
a Walton-on-Naze	...	...	68	45·5	37·3	41·4	—	52	23rd	28	13, 14	—	—	2·49	—	0·85	11th	18	—	—	—	—	17	1·66	—	20	—
a Halstead	...	...	139	45·0	34·3	39·7	—	52	23rd	25	13, 27	—	—	3·11	—	1·00	11th	20	2	0	0	0	—	—	—	—	—
a Chelmsford	...	...	134	45·2	34·0	39·6	—	52	23rd	?24	13th	—	—	2·91	—	0·75	12th	17	2	0	0	3	—	—	—	—	—
p Hemel Hempstead	...	...	535	43·7	33·9	38·8	—	49	5, 23, 31	25	13th	—	—	3·85	—	0·57	11th	23	—	—	—	—	16	—	—	—	—
a Rothamsted	...	¶§	424	45·5	34·1	39·8	+ 2·7	51	5, 23, 30	23	13, 14	—	—	3·04	+0·83	0·47	22nd	21	—	—	—	—	—	1·15	−0·40	14	− 5
a Shoeburyness	...	...	13	45·5	37·5	41·5	+ 3·2	51	23rd	27	13th	—	—	2·08	+0·70	0·37	11th	19	0	0	0	6	—	—	—	—	—
a Southend	...	...	90	44·8	37·5	41·2	—	50	2, 23	30	13th	41·8	—	2·29	+0·79	0·34	11th	16	—	—	—	—	19	1·70	—	21	—
4. MIDLAND COUNTIES.																										
a Harrogate	...	... ¶§	476	40·1	32·1	36·1	− 0·8	51	7th	13	14th	38·8	41·3	4·51	+2·32	1·37	11th	21	5	1	0	0	14	0·51	—	6	—
a Bradford	...	...	439	41·7	34·0	37·9	—	52	6, 7	26	22nd	38·1	42·9	4·26	—	0·75	11th	19	1	0	0	2	16	0·23	—	3	—
a Meltham	...	...	513	41·9	33·3	37·6	—	51	7th	20	14th	38·2	—	4·85	—	0·99	30th	24	7	0	0	2	17	—	—	—	—
a Cheadle	...	... ¶	646	41·4	33·0	37·2	+ 0·6	48	5, 7, 23	22	12th	—	—	4·15	+1·56	0·95	4th	19	—	—	—	—	21	—	—	—	—
a Wellington	...	...	207	45·2	32·4	38·8	—	52	7th	20	13th	—	—	2·69	—	0·70	4th	17	4	0	0	4	—	—	—	—	—
a Bawtry	...	... ¶	65	42·2	33·0	37·6	+ 0·3	52	7th	17	13, 14	—	—	2·96	+1·31	1·16	11th	17	—	—	—	—	—	—	—	—	—
a Matlock	...	...	636	41·3	33·0	37·2	—	52	23rd	18	14th	—	—	5·00	—	1·51	11th	22	3	0	0	10	—	0·44	—	5	—
a Belper	...	...	222	42·5	32·0	37·3	—	51	23rd	15	13th	—	—	4·82	—	1·44	11th	19	2	0	0	0	13	—	—	—	—
a Belper (Quarry Bank)	...	...	280	42·1	33·0	37·6	—	50	5, 7, 23	18	13th	—	—	4·65	+2·02	1·31	11th	19	2	0	0	7	—	—	—	—	—
a Mayfield (Staffs)	...	...	374	41·9	30·7	36·3	—	50	7, 23	8	14th	—	—	4·50	—	1·28	11th	22	6	0	0	7	17	0·70	—	9	—
a Strelley	...	...	377	42·4	33·2	37·8	+ 1·1	50	5, 7, 23	16	13th	39·1	—	3·70	+1·54	1·09	11th	20	3	0	0	8	—	0·81	−0·25	10	− 3
a Kingston-on-Soar	...	...	125	43·2	33·1	38·2	− 0·4	52	23rd	16	13, 14	39·8	—	3·17	—	1·12	11th	15	2	0	0	3	—	—	—	—	—
a Sparkhill	...	...	425	44·5	33·5	39·0	—	52	23rd	20	14th	—	—	4·16	—	1·03	11th	23	4	1	0	5	16	—	—	—	—
p Rugby	...	...	379	44·0	33·2	38·6	+ 1·8	51	23, 24	16	13th	—	—	4·12	—	1·04	11th	18	2	0	0	1	17	—	—	—	—
a Raunds	...	... ¶	204	44·4	33·8	39·1	+ 1·3	52	5th	20	13th	40·4	45·8	2·92	—	1·10	11th	16	2	0	0	0	16	1·55	—	19	—
a Malvern	...	...	520	43·6	35·9	39·8	—	50	23rd	29	13, 14	—	—	4·58	—	1·21	4th	24	—	—	—	—	—	1·38	—	17	—
a Ross	...	...	214	45·6	35·6	40·6	—	54	7th	24	13th	—	—	4·32	—	0·95	4th	21	2	0	0	5	—	—	—	—	—
a Hereford	...	... ¶	291	44·9	34·9	39·9	+ 1·6	51	22, 23	23	13th	—	—	2·90	+0·60	0·95	4th	17	0	0	0	2	14	—	—	—	—
a Cirencester	...	... ¶§	446	43·8	33·1	38·5	+ 1·2	50	5th	23	13th	41·1	44·2	5·22	+2·70	1·35	11th	21	—	—	—	—	10	1·08	−0·44	13	− 6
a High Wycombe	...	...	249	45·2	34·9	40·1	—	51	5, 9, 23	25	13th	—	—	3·69	—	0·64	19th	21	1	0	0	3	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury	...	...	235	45·6	34·5	40·1	—	51	5th	24	13, 16	—	—	4·38	—	0·86	4th	23	1	0	0	0	17	—	—	—	—
a Wokingham	...	...	216	46·0	32·4	39·2	—	51	5, 9, 23	19	13th	—	—	3·20	—	0·82	19th	17	1	1	0	3	—	—	—	—	—
a Marlborough	...	¶§	424	45·3	35·3	40·3	+ 2·8	50	5, 23, 30	22	14th	—	46·4	4·40	+1·60	0·90	19th	22	—	—	—	—	16	0·91	−0·44	11	− 6
a Bucklebury	...	...	409	44·9	35·3	40·1	—	50	5, 9, 23	25	13th	—	—	3·63	—	0·82	11th	19	1	0	0	4	19	—	—	—	—
a New Malden	...	...	39	46·0	35·3	40·7	—	52	23rd	24	13, 14	41·1	45·0	2·65	—	0·32	22nd	15	1	0	0	3	17	1·25	—	15	—
a Croydon (Addington)	...	...	472	45·8	36·5	41·2	—	51	23, 30	28	26th	—	—	3·63	—	0·44	11th	19	1	0	0	9	—	—	—	—	—
a Wallington	...	...	144	46·3	36·6	41·5	—	52	23rd	26	13th	41·1	44·1	3·54	—	0·42	15th	20	1	0	0	3	10	—	—	—	—
a Woking	...	...	180	46·5	35·6	41·1	—	52	9, 23	25	13th	41·2	—	2·91	—	0·56	19th	18	—	—	—	—	11	—	—	—	—
a Swarraton	...	... ¶	310	45·5	34·9	40·2	+ 2·8	51	23rd	23	13th	—	—	4·47	+1·67	0·76	19th	21	0	0	1	2	—	—	—	—	—
a Margate	...	... ¶§	35	45·8	38·3	42·1	+ 3·1	52	23, 24	29	13th	44·0	47·0	2·43	+0·70	0·45	12th	14	—	—	—	—	—	1·25	−0·27	15	− 4
a Aldershot	...	...	231	45·6	35·4	40·5	—	51	5, 23	24	13th	—	—	3·83	—	0·55	11th	22	1	0	0	5	—	—	—	—	—
a Wisley	...	... ¶§	150	46·5	36·5	41·5	+ 3·5	52	9, 23	26	13, 14	41·3	44·9	2·78	—	0·34	11, 22	18	1	2	0	3	15	1·69	—	20	—
a Basingstoke	...	...	289	45·7	35·6	40·7	—	51	23rd	25	13th	41·6	45·1	3·99	—	0·73	19th	16	2	2	0	4	9	—	—	—	—
a Sevenoaks	...	...	509	44·5	35·8	40·2	—	51	23rd	27	13, 14	40·4	44·7	3·78	—	0·44	30th	21	1	1	0	4	13	—	—	—	—
a Tunbridge Wells	...	¶§	419	45·0	35·7	40·4	+ 3·0	51	23rd	28	13th	40·5	—	4·97	+2·41	0·70	30th	22	2	0	1	8	15	1·70	+0·18	21	+ 3
a Matfield	...	...	319	45·4	35·5	40·5	—	52	23rd	25	13th	—	—	4·72	—	0·64	20th	21	2	1	1?	2	15	—	—	—	—
p Folkestone	...	...	121	46·2	38·5	42·4	—	51	23rd	33	11,14,23	—	46·2	3·65	+1·26	0·39	20th	19	1	0	0	0	—	1·58	—	19	—
v Bexhill	...	...	27	47·3	40·5	43·9	—	50	2, 23, 30	32	13, 22	45·4	—	3·92	—	0·61	13th	21	1	1	1	1	5	1·41	—	17	—
a Worthing	...	... §	36	47·9	38·8	43·4	+ 4·5	51	6, 9, 23	26	13th	43·5	46·8	4·28	+1·82	0·77	11th	20	0	1	1	1	11	1·91	—	23	—
a Bognor	...	...	20	47·6	40·1	43·9	—	51	23rd	29	13th	—	48·2	3·84	—	0·67	11th	20	0	1	1	2	—	1·86	—	22	—
a Selsey Bill	...	...	21	48·4	39·7	44·1	—	51	5, 9, 23	28	13th	—	—	4·54	—	0·72	11th	22	0	0	0	2	9	1·90	—	23	—
a Totland Bay	...	...	140	48·2	40·2	44·2	+ 4·3	51	4, 5, 30	31	13, 15	—	—	4·65	+2·28	0·85	11th	23	0	4	1	2	6	1·71	—	20	—
a Sandown	...	...	20	49·3	40·5	44·9	—	54	25th	31	13th	—	—	5·48	—	0·81	11th	25	—	—	—	—	—	1·69	—	20	—
p Bournemouth	...	...	145	48·5	38·6	43·6	—	53	23rd	28	13th	43·3	45·2	5·91	—	0·98	11th	25	—	—	—	—	—	1·60	—	19	—

1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in January, based on 35 years' observations, 1871–1905.

29·40 29·45 29·50 29·55 29·60 29·65 29·70 29·75 29·80 29·85 29·90 29·95 30·00 30·05

LOW HIGH

WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG — 30 Obsns. = 1 inch

2. MOVEMENTS OF DEPRESSIONS.

3. DISTRIBUTION OF MEAN TEMPERATURE.

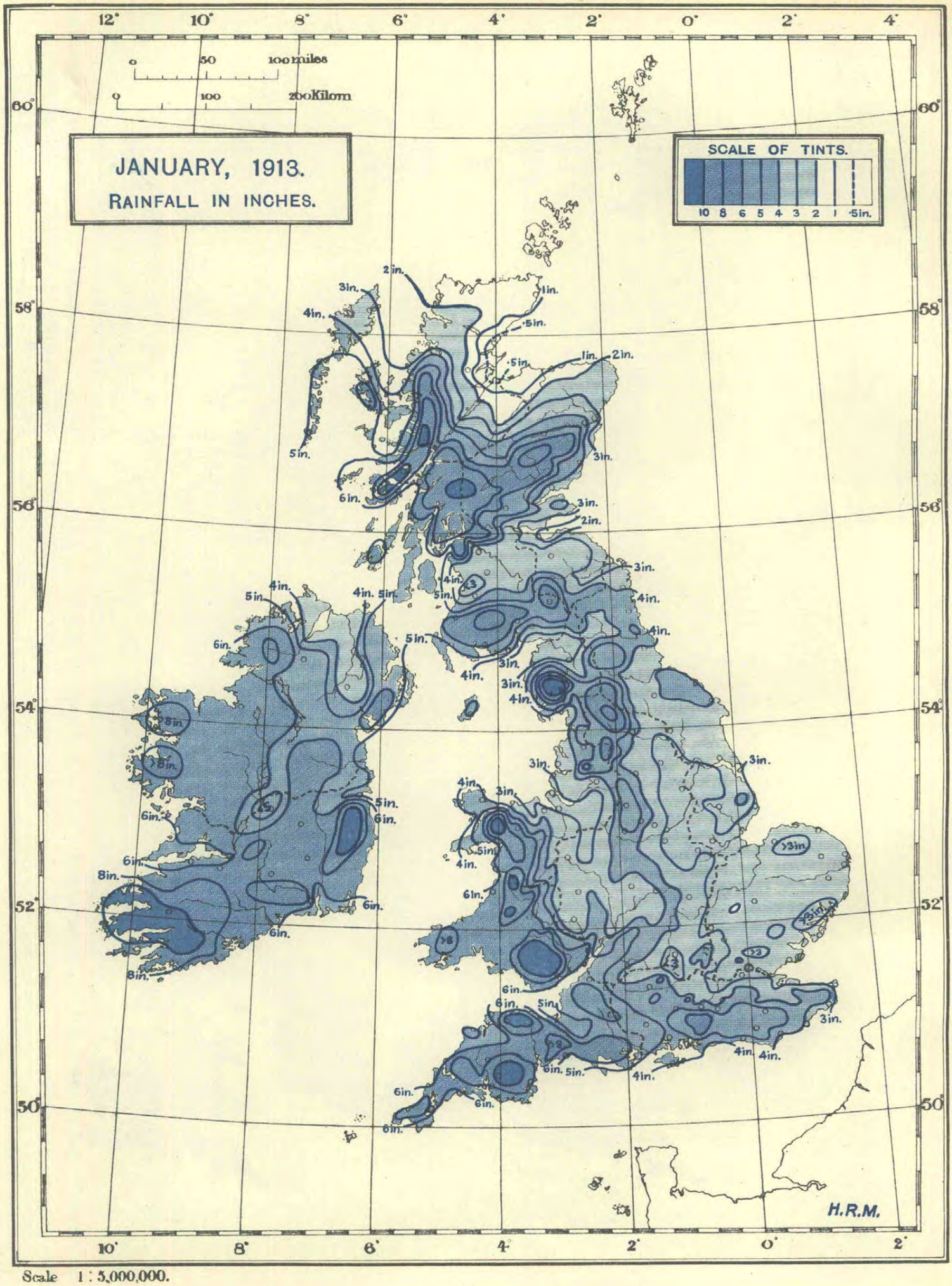
Reduced to sea level by a correction of 1°F for 300 ft.

SCALE OF TINTS 44 41 38

Sea temperatures are shown in large figures thus 44°

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS Hrs. 1½ 1 ½



Scale 1 : 5,000,000.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JANUARY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	45·3	33·5	39·4	—	52	5, 23	25	27th	—	44·2	2·67	—	0·62	11th	20	2	1	0	7	—	0·78	—	10	—
a Golders Green	233	—	—	—	—	—	—	—	—	—	—	2·75	—	—	—	—	—	—	—	—	—	—	—	—	—
p Hampstead (Redington Rd.)	375	44·7	36·2	40·5	—	50	5, 23	26	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon	51	47·5	35·1	41·3	—	53	9th	25	13, 14	—	—	2·60	—	0·35	5, 22	17	1	0	0	3	13	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	45·5	36·2	40·9	—	53	6th	27	26th	—	—	5·37	—	0·98	30th	25	6	1	0	0	10	0·71	—	10	—
a Ardnadam	64	—	—	—	—	—	—	—	—	—	—	9·78	—	2·20	30th	23	—	—	—	—	—	—	—	—	—
a Thorntonhall (Lanarkshire)	440	40·1	32·0	36·1	—	51	6, 7	17	14th	—	—	2·96	—	0·74	30th	18	5	0	1	2	16	0·43	—	6	—
a Kilmarnock ¶	90	42·2	33·9	38·1	− 1·3	52	7th	23	14th	—	—	3·01	—	0·62	30th	18	4	1	0	1	—	0·79	—	10	—
p Ruthwell §	67	42·5	33·6	38·1	—	50	7, 8	22	14, 26	—	—	2·61	—	0·46	23rd	15	3	0	0	0	—	1·08	—	14	—
7. ENGLAND, N.W.																									
a Scaleby	111	43·3	33·2	38·3	—	54	7th	22	14th	—	—	2·23	—	0·38	28th	19	1	3	0	0	—	—	—	—	—
a Seathwaite	422	42·5	33·8	38·2	—	51	7th	20	13th	—	—	15·68	—	2·11	24th	22	5	0	0	0	—	—	—	—	—
a Carnforth	174	42·8	33·5	38·2	—	52	7th	23	14th	—	—	3·43	—	0·57	23rd	21	5	3	1	0	15	0·65	—	8	—
a Lancaster	311	43·0	35·2	39·1	—	51	7th	27	14th	40·3	45·5	4·26	—	0·62	11, 30	21	3	1	0	0	24	0·79	—	10	—
a Hutton	81	43·8	34·0	38·9	—	52	7th	22	14th	40·1	43·7	3·60	—	0·63	30th	21	3	1	1	1	12	0·75	—	10	—
a Burnley	459	41·7	33·5	37·6	—	50	7th	22	26th	38·1	42·5	4·65	—	0·91	30th	18	—	—	—	—	13	0·44	—	6	—
a Leyland	124	43·6	34·2	38·9	—	52	7th	21	14th	—	—	3·83	—	0·58	30th	19	3	3	0	0	13	0·69	—	9	—
a Bolton	341	42·8	35·1	39·0	—	51	7th	26	14th	39·1	42·3	4·98	—	0·78	22nd	22	4	0	0	0	14	0·31	—	4	—
a Blundellsands	34	43·9	36·0	40·0	—	53	7th	26	14th	—	—	3·60	—	0·97	11th	17	2	0	0	3	10	—	—	—	—
a Hoylake §	30	46·6	35·8	41·2	—	55	6, 7	26	14th	—	—	2·95	—	0·59	11th	18	2	—	—	1	14	1·45	—	18	—
a Rhyl	30	46·7	36·1	41·4	—	55	7th	26	26th	—	—	2·14	+0·41	0·39	11, 30	18	—	—	—	—	12	2·00	—	25	—
a Colwyn Bay	82	47·2	38·3	42·8	—	54	7, 9, 23	29	13, 14	—	—	2·91	—	0·43	5th	17	0	0	0	0	—	1·99	—	25	—
a Llanberis (Pen-y-gwryd)	913	42·5	34·3	38·4	—	48	6, 9, 24	23	13th	—	—	20·33	—	3·85	22nd	25	4	1	1	0	—	—	—	—	—
a Macclesfield	500	42·9	33·9	38·4	—	51	23rd	23	13, 14	—	—	3·39	—	0·67	4th	15	5	0	0	0	—	—	—	—	—
a Northwich	117	44·1	34·0	39·1	—	54	23rd	24	14th	—	—	2·86	—	0·66	4th	18	5	2	0	7	—	—	—	—	—
a Hawarden Bridge ¶	22	45·1	35·5	40·3	+ 0·1	55	7th	24	14, 26	—	—	3·04	+0·34	0·96	11th	17	—	—	—	—	—	—	—	—	—
a Ruthin	449	43·7	36·1	39·9	—	52	7th	27	14th	—	—	2·41	—	0·40	11th	17	3	1	0	0	—	—	—	—	—
a St. Asaph	479	44·2	35·6	39·9	—	52	7th	27	14th	—	—	2·22	—	0·52	11th	14	3	2	0	0	16	—	—	—	—
a Welshpool	255	45·7	33·4	39·6	—	53	23rd	20	13th	—	—	3·81	—	0·67	4th	20	4	0	0	5	—	—	—	—	—
p Aberdovey §	22	46·7	39·6	43·2	—	52	7, 9	31	14th	—	—	5·14	—	0·64	22nd	23	1	0	0	0	—	1·62	—	20	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	47·2	39·5	43·4	—	53	6, 7	31	13th	—	—	5·07	—	0·65	20th	23	0	4	0	0	—	1·68	—	21	—
a Gwernyfed	374	45·2	33·0	39·1	—	51	7, 30	20	13th	—	—	4·05	—	0·83	4th	26	2	0	1	4	—	—	—	—	—
a Haverfordwest	93	47·7	38·0	42·9	—	54	3, 6, 10	27	14th	—	—	7·91	—	0·99	22nd	28	1	5	3	1	—	1·37	—	17	—
a Swansea	24	47·3	39·6	43·5	—	53	23rd	31	13th	43·5	48·1	7·27	—	1·13	22nd	25	0	2	1	3	14	1·49	—	18	—
a Clifton ¶	229	46·8	37·9	42·4	+ 2·8	52	4, 24, 30	30	13, 26, 27	—	—	5·63	+2·60	1·08	4th	22	2	1	0	0	11	0·94	—	11	—
a Weston-Super-Mare	29	47·4	38·1	42·8	—	52	4, 5, 24	30	13, 14, 26	—	—	5·45	—	1·29	4th	23	1	3	0	2	14	0·97	—	12	—
a Minehead	104	48·4	38·4	43·4	—	53	24th	30	13th	—	—	5·95	—	0·91	4th	23	0	0	0	0	14	1·21	—	15	—
a Ilfracombe	24	48·7	41·3	45·0	—	53	6, 7, 9	35	13, 26	44·5	48·7	6·56	—	0·93	22nd	26	0	2	0	2	3	1·47	—	18	—
a Arlington ¶	613	45·3	36·5	40·9	+ 1·0	50	7th	27	13, 14	—	—	7·88	+3·40	1·57	22nd	22	1	2	0	0	—	—	—	—	—
a Cullompton ¶§	202	47·8	36·1	42·0	+ 2·2	53	23rd	26	13, 14	43·6	—	7·07	+3·81	1·21	4th	28	1	0	0	4	16	0·90	−0·55	11	− 6
a Rousdon	515	47·0	38·3	42·7	+ 3·1	51	23rd	29	13th	43·3	45·5	6·87	+3·81	0·90	4th	24	2	3	1	6	7	1·37	—	17	—
a Sidmouth	147	48·6	38·7	43·7	—	54	23rd	29	13, 14	—	—	8·69	—	1·34	4th	24	0	0	0	1	—	—	—	—	—
a Killerton	160	48·5	34·6	41·6	—	54	23rd	22	17th	—	—	6·58	—	1·10	4th	22	1	1	0	1	14	—	—	—	—
a Shaftesbury ¶	722	44·5	35·5	40·0	+ 2·6	50	23rd	29	13, 14	41·4	44·8	4·30	+1·52	0·95	19th	23	—	—	—	—	—	—	—	—	—
a Dorchester	314	48·0	37·1	42·6	—	52	5, 23	26	13th	—	—	7·25	—	1·26	19th	25	0	2	1	3	—	1·28	—	15	—
a Weymouth	21	48·7	40·3	44·5	—	53	23rd	29	13th	—	—	4·72	—	0·72	19th	23	2	5	1	0	—	1·22	—	15	—
a Torquay	12	49·9	40·2	45·1	—	55	23rd	31	13th	—	—	7·22	—	1·00	4th	27	0	4	0	0	10	1·45	−0·45	17	− 6
p Paignton	11	49·6	37·3	43·5	—	54	7, 10, 23	22	13th	—	—	7·93	—	1·09	4th	26	0	3	1	7	13	1·34	—	16	—
a Salcombe	300	49·4	40·3	44·9	—	52	4–7, 24	29	14th	—	—	7·91	—	1·24	4th	28	0	1	1	1	—	1·31	—	16	—
a Tavistock	374	47·5	36·9	42·2	—	52	9th	25	14th	—	—	9·25	—	2·10	4th	29	2	7	2	6	11	—	—	—	—
a Ashburton	583	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Fowey	51	50·1	41·7	45·9	—	56	10th	31	14th	—	—	5·62	—	0·73	10th	26	1	0	0	2	—	1·66	—	20	—
a Redruth	397	47·5	39·5	43·5	—	51	7, 23, 24	31	14th	—	—	8·75	—	1·36	10th	30	2	7	0	1	—	—	—	—	—
a Penzance	54	50·3	42·2	46·3	—	54	23, 24	32	14th	—	—	7·11	—	1·14	10th	30	0	4	0	5	—	1·66	—	20	—
9. IRELAND, N.																									
p Dunfanaghy	54	45·2	36·8	41·0	—	53	7th	30	13th	—	—	5·22	—	0·63	10th	25	2	1	1	0	—	—	—	—	—
a Lisburn	207	45·8	33·5	39·7	—	53	7th	21	14th	—	—	5·78	—	0·87	23rd	22	1	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	47·9	36·6	42·3	+ 1·8	57	7th	21	13th	—	—	5·42	+3·14	1·27	10th	22	5	4	0	0	21	—	—	—	—
a Kingstown	42	47·3	38·9	43·1	—	54	6, 7, 8	29	13, 14	—	—	5·52	—	1·65	10th	20	—	—	—	—	—	1·38	—	17	—
p Clongowes Wood Col.	245	46·3	33·4	39·9	—	53	7th	14	13, 14	—	—	3·93	—	0·67	10th	24	2	0	0	3	18	1·85	—	23	—
a Mountmellick	239	44·7	34·2	39·5	—	52	6, 22, 23	24	13th	—	—	6·29	—	0·90	9th	27	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	47·0	36·7	41·9	—	53	4th	26	13th	—	—	8·09	—	1·49	10th	23	1	0	0	0	—	—	—	—	—
a Kilkenny ¶	195	46·2	33·9	40·1	− 0·6	53	23rd	22	13th	—	—	5·90	+2·51	0·98	9th	27	4	0	0	2	—	—	—	—	—
a Cahir	199	46·1	34·4	40·3	− 1·0	53	7, 23	25	13, 14	—	—	7·16	—	1·50	9th	26	5	2	0	1	—	—	—	—	—
a Wexford	99	46·5	38·4	42·5	—	51	6, 7, 23	27	14th	—	—	6·80	—	0·90	10th	26	1	1	0	0	—	—	—	—	—
a Waterford ¶	100	47·7	36·0	41·9	+ 0·9	53	24th	25	26th	—	—	7·56	+3·44	1·11	27th	25	3	3	0	1	—	—	—	—	—
p Waterford Trg. Coll.	20	47·8	36·4	42·1	—	53	24th	26	13, 26	—	—	7·55	—	1·13	27th	24	1	1	0	4	—	—	—	—	—
a Foynes ¶	108	47·0	37·0	42·0	+ 0·6	53	6, 30	28	14th	—	—	5·63	+1·97	0·60	21, 22	28	—	—	—	—	—	—	—	—	—
a Killarney ¶	174	48·6	38·0	43·3	+ 0·2	56	23rd	28	26th	—	—	9·29	+3·04	0·85	2, 14	29	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	48·4	35·9	42·2	—	53	22, 23, 30	26	14th	—	—	6·66	—	1·28	9th	25	4	1	1	1	—	1·35	—	17	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	48·6	42·4	45·5	+ 2·2	52	23rd	36	13, 14	—	—	5·79	+2·20	0·73	29th	24	—	—	—	—	—	1·34	−0·34	16	− 4

DISTRICT VALUES—JANUARY, 1913.

Districts.	Air Temperature.						Earth Temperature.				Rainfall.			Sunshine.				Cloud. Mean Amount (0–10).			Pressure at M.S.L.			
	Highest.	Lowest.	Means of				At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Total.	Difference from Average.	No. of Days.	Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Highest.	Date.	Lowest.	Date.
			Daily Max.	Daily Min.	Daily Mean.	Difference from Average.																		
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	55	15	42·6	35·4	39·2	+0·8	38·1	−0·1	—	—	3·53	−2·39	19	0·71	−0·11	10	− 1	7·1	7·4	7·2	30·23	26th	28·53	30th
Eastern.																								
1. SCOTLAND, EAST ...	56	11	40·7	32·3	36·7	−0·8	36·0	+0·5	39·8	+1·0	2·89	+0·32	18	0·71	−0·66	10	− 9	7·5	7·5	7·7	30·32	26th	28·66	30th
2. ENGLAND, N.E. ...	55	13	42·2	33·9	38·3	−0·3	38·2	+1·2	42·5	+1·2	3·15	+1·38	19	0·78	−0·59	10	− 8	8·1	—	8·0	30·39	26th	28·91	31st
3. ENGLAND, EAST ...	53	18	44·6	35·7	40·4	+2·4	40·4	+2·7	44·6	+2·0	2·73	+0·99	20	1·36	−0·32	17	− 4	7·4	7·2	7·0	30·40	26th	29·07	31st
4. MIDLAND COUNTIES	54	8	44·2	34·2	39·4	+1·3	39·6	+1·6	43·7	+1·4	3·64	+1·47	19	0·89	−0·53	11	− 7	8·4	7·5	7·0	30·38	26th	29·08	20th
5. ENGLAND, S.E. ...	54	19	46·4	37·6	42·2	+2·5	42·3	+3·5	46·0	+2·4	3·87	+1·60	20	1·45	−0·15	17	− 2	7·3	8·0	6·9	30·40	26th	29·16	16th
Western.																								
6. SCOTLAND, WEST ...	53	17	42·9	35·1	39·2	−0·5	37·9	—	42·2	+0·2	5·34	+0·65	20	0·83	−0·36	11	− 5	8·0	—	7·4	30·38	26th	28·78	30th
7. ENGLAND, N.W. ...	55	10	43·9	35·5	39·9	+0·2	39·6	+1·2	43·5	+1·3	3·57	+0·54	20	0·92	−0·30	12	− 4	7·6	—	6·7	30·33	26th	28·96	20th
8. ENGLAND, S.W. ...	56	19	47·0	38·4	42·9	+1·5	43·1	+2·5	46·4	+1·8	6·55	+2·88	25	1·27	−0·36	15	− 5	7·6	7·5	6·3	30·31	26th	28·90	20th
9. IRELAND, NORTH ...	55	21	45·5	36·3	41·1	+0·4	40·5	−0·2	44·1	0·0	4·84	+1·39	24	1·11	−0·27	14	− 4	7·6	7·6	6·9	30·31	26th	28·80	30th
10. IRELAND, SOUTH ...	57	14	47·3	37·0	42·4	0·0	41·8	+1·3	46·7	+0·7	7·00	+3·00	27	1·28	−0·37	16	− 5	7·3	7·4	6·3	30·25	26th	28·67	19th
11. ENGLISH CHANNEL ...	53	35	49·4	42·3	46·0	+1·6	45·6	+2·4	48·0	+1·4	5·45	+2·41	26	1·47	−0·61	17	− 7	7·7	7·7	6·3	30·30	26th	29·10	20th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.	District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%		LONDON.	hr.		%	
Ramsgate ...	1·63	—	20	—	Bunhill Row ...	0·43	−0·05	5	− 1
Broadstairs ...	1·65	—	20	—	Plumstead ...	1·37	—	17	—
Littlestone§ ...	1·56	—	19	—					
Hove	1·66	—	20	—	8. ENGLAND, S.W.				
Westbourne ...	1·10	—	13	—	Tenby	1·32	−0·55	16	− 7
					Port Talbot ...	1·16	—	14	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day.		No. of days.
			Amt.	Date.	
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	2·58	—	0·36	11th	20
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	6·43	—	1·30	4th	20
Forest of Dean (900 ft.)	6·43	—	1·56	11th	22

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type. At other stations the calculations are made from the monthly means of the dry and wet bulb readings.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except in the cases of rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Wind Summaries.—The results given under wind direction, and the number of observations of calms and of fresh or strong wind, are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Glasgow, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. (At Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Notes in Monthly Weather Reports for 1908.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Oxford, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 3, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—The stations used in the Weekly Weather Report for the computation of "district values" of rainfall and temperature are distinguished by the sign ¶, those used for the computation of "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, duration of bright sunshine, number of rain days and amount of rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The extreme values of the various elements in each district are printed in distinctive type. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the case of the corresponding values published in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked § are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, February 25, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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CLOUDY AND DRY—ONE FOGGY WEEK.

Pressure, Winds and Weather.—Broadly, the first half of the month was characterised by a vast belt of high pressure, which occupied the southern half of the area under observation, stretching from British Columbia eastward across the United States, and the middle belt of the Atlantic to Southern and Eastern Europe and away to Eastern Asia. On some days the sea level pressure was above 30·7 in. at various stations in America and Europe, and above 31·1 in. in the neighbourhood of Lake Baikal, in Siberia. This great anticyclone enclosed on its Arctic side a well-marked basin of low pressure, in which were numerous secondary depressions, following, in the main, the usual easterly paths of translation, the barometer standing below 29 in. nearly every day, and on the evening of the 6th sinking to nearly 28 in. on the south coast of Iceland. About the 10th the situation began to undergo a change, with the northward expansion of the anticyclone over Western Europe. By the 15th a very striking reversal of the situation had been accomplished, the area of highest pressure now occupying the northern regions, from Hudson Bay eastward across the upper portion of the Atlantic to North-Western, Central and South-Eastern Europe, while the cyclonic systems were transferred to the southern side, being about the States, the Middle Atlantic and the Mediterranean. Towards the close of the month the conditions became more irregular, but the changes were comparatively unimportant.

Two main types of widely different atmospheric conditions thus influenced the weather over the United Kingdom. From the 1st to the 9th the whole country was affected by the deep depressions which were always present on the ocean to the westward and northward. The centres of all the main systems of this period passed away to the northward or to the eastward of Iceland, only two secondary disturbances visiting our coasts. A very shallow one appeared on the English Channel on the 1st, and subsequently travelled away across the Baltic to central Russia. From the 6th to the 9th a cyclonic area of great depth was centred to the southward of Iceland, and on the 7th it threw off a well-developed satellite, which struck off on a north-easterly course, its centre crossing the Hebrides and Shetland, and finally dispersing over Finland on the 9th. During the evening or night of the 7th the barometer descended below 29 in. in all parts of Scotland and the north of Ireland, the lowest record of the month, 28·77 in., being registered at Blacksod Point. With the disappearance of this secondary system a decided increase of pressure set in over the whole of Western Europe, and by the night of the 9th the entire area of the British Isles had been brought within the limits of an extensive anticyclone, the centre of which was over France at first, but covered a great part of England by the morning of the 12th, when the barometer mounted to 30·7 in. in several localities, and to 30·72 in. at Kew Observatory. This was not only the highest reading for the month, but it is also higher than any previous record in the kingdom since the opening days of February, 1911, a period of just over two years. With the establishment of the high pressure distribution a spell of very quiet conditions set in, the position of the maximum pressure shifting about continually in an irregular manner. It passed to the western and central parts of the Continent on the 23rd, and thus rendered it possible for depressions out on the Atlantic to spread in over this country. Between the 25th and the 27th two shallow depressions appeared, one moving up the western coasts to the Hebrides, then starting off on a due easterly course to Russia, the other following an easterly path into the Channel, and dispersing over Normandy, when the barometer again ascended briskly, another anticyclone covering the country on the last day of the month.

As there was thus a considerable preponderance of anticyclonic conditions the mean pressure for the month over these islands was everywhere well above the normal, the excess ranging from 0·11 in. at Blacksod Point and Birr Castle to 0·20 in. at Clacton, and 0·22 in. at Yarmouth. The lowest mean pressure was 29·53 in. in Western Iceland, thence the values increased to 29·94 in. at Lerwick, and 29·97 at Stornoway, 30·19 in. at Jersey, London and Yarmouth, and to 30·28 in. at Vienna. The general distribution was thus favourable to the prevalence of a South-Westerly type.

Under the influence of the depressions off the north and west coasts very breezy changeable weather ruled over these islands through the first nine days, strong to high and squally, Southerly to Westerly winds being reported over a wide area every day, the force of a gale being attained in several neighbourhoods in the first five days. On the 6th, with the nearer approach of a secondary disturbance, the area of gale force became more extensive, and on the 7th and 8th the gale was pretty general, and in many localities severe, there being a considerable number of instances of a strong gale (force 9), while Aberdeen, Donaghadee, Malin Head, and the lighthouses at Trevose Head and the Outer Farne had a whole gale (force 10), and Southport and Lundy a storm (force 11). During squalls the wind rose to a velocity of 72 miles an hour at Pendennis Castle, 74 at Shields, 76 at Aberdeen, 79 at Dwyran, 80 at Quilty, 83 at Holyhead, and 86 at Southport. A rapid decrease in the strength took place on the 9th. The gale was of a destructive character, and on the 7th it caused the highest tide in the Shannon that had been known for 50 years, many houses being flooded, and in some of them trout were found when the water subsided. In spite of the disturbed weather of these nine days the rainfall was singularly light over nearly the whole kingdom, the only considerable amounts being registered in the more hilly regions of the west, and even there few stations had as much as an inch in a day. On the 2nd Glencarron had 2·4 in.; on the 3rd Seathwaite 3·3 in., and on the 8th Llanberis (Penygwryd) 2·2 in. In seven consecutive days Seathwaite had 8·7 in., and on the slopes of Snowdon there were amounts up to 6·8 in. for four days. Occasionally there were small falls of snow locally, and on the 1st, 6th and 9th various localities in Ireland and Scotland had thunderstorms.

With the setting in of the anticyclonic type on the 10th the weather became very dry, and during the remainder of the month there were only a few trifling showers, many places measuring no rain through 14 or 15 successive days, Beaconsfield and Llandudno having none through the 16 days, 10th to 25th. Between the 17th and 25th strong to high winds from South-East to North-East were felt over the southern districts, due to the presence of a depression over the Western Mediterranean. On the morning of the 15th an exceedingly shallow depression formed over Eastern England within the anticyclone, barometer at about 30·3 in., and produced a very gloomy, damp day as it moved southward slowly.

As a general rule temperature was maintained within moderate limits, and for the whole month the mean results were nearly everywhere above the normal, by as much as 3° at Yarmouth. Between the 4th and the 14th, afternoon readings of 55° and upwards occurred in many localities, the highest, 60° at Jersey on the 11th, at Ruthin on the 11th and 12th, and 61° at Sheepstor on the 12th. These were in brilliant, sunny weather, at the same time that other places, enveloped in fog, were very cold, Hereford 36°, Nottingham 38°. The night of the 3rd–4th was very mild, many minima being 47° and upwards, 50° at Killarney, Welshpool, Ilfracombe and other places. Generally, the frosts registered were of the slightest, but on the mornings of the 14th and the 23rd a sharp one visited many districts, the thermometer in the shade sinking to 20° at Gwernyfed Park, and 19° at Llangammarch Wells on the former date, and to 19° at Mayfield, and 18° at Eskdalemuir on the latter date. The afternoon of the 20th was the coldest of the month, temperature not passing above 35° at a number of stations, 33° at Buxton and Sheepstor.

An aurora was observed at Baltasound on the 5th, and at Matfield (Kent) on the 8th.

Fog was unusually prevalent inland and on the coasts (and also on the Continent) from the 10th to the 15th, dense to very dense in several localities at times, and in some neighbourhoods almost continuous. In London, on the 15th, the fog was lifted above the housetops, a dense canopy which shut out the daylight completely, so that in the streets below there was intense darkness during the day. At other times during the month there was a fair amount of fog on various parts of the western coasts, mostly round Ireland.

The coastal sea water was about a degree colder than in January in most neighbourhoods, but in many places it was 2° to 4° warmer than the air on shore.

Rainfall.—The month's precipitation was below the normal at nearly every station, Birmingham, Margate, Dublin City and Glasnevin returning only 30 per cent., Dundee 31, Shaftesbury 32, and Shields 33 per cent. Of the few in excess Aspatria had 121, Fort Augustus 138, and Nairn 140 per cent. In very numerous instances the aggregate totals were less than an inch, less than ½ in. at Shields, Tynemouth, Peterborough and Margate. At Copper Mill, Snowdon, the total was 10 in., at Seathwaite 10·5 in., and at Loan, Loch Quoich, 17·8 in. Precipitation was measured on 25 days at Baltasound, and on 22 days at Lerwick and Stornoway, but at a very large number of stations on 10 days or less, on 5 days at Margate and Temple Bruer.

Bright Sunshine.—In a few localities the duration of insolation was above the normal—Tunbridge Wells 128, Newquay and Jersey 118, and Plymouth 115 per cent.—but generally there was a deficiency, the percentage of the average being 62 at Strathpeffer, 61 at Aberdeen, 55 at Fort Augustus, and 39 at Glasgow.

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TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands *a* Castlebay ...	7, 1, 9	48	9·917	+·144	9·984	46·1	39·4	42·8	+1·9	49	2, 3, 11	32	1st	—	—	43·3	44·2	44·1	1·3	1·9	1·8	·252	·248	·249	90	85	85
p Deerness ... §	9, –, 9	163	9·787	—	9·964	43·4	37·0	40·2	+1·7	47	11, 12, 25	32	28th	—	—	39·5	—	39·6	1·5	—	1·4	·214	—	·218	88	—	88
a Lerwick ... ¶§	7, 1, 9	59	9·872	+·144	9·939	43·7	36·3	40·0	+1·8	49	11th	30	21, 22, 28	—	—	40·0	42·1	40·5	1·4	2·2	1·6	·218	·222	·219	89	83	87
a Stornoway ... ¶§	7, 1, 9	52	9·915	+·166	9·967	45·6	37·0	41·3	+2·3	50	3rd	29	20th	—	—	40·4	43·3	41·6	1·4	1·5	1·8	·222	·248	·226	89	88	86
Mainland *a* Wick ... ¶	7, 1, 9	94	9·873	+·164	9·982	43·5	35·4	39·5	+1·6	50	3, 11	30	1st	—	—	38·8	42·0	39·2	0·7	1·0	0·4	·222	·245	·232	95	92	96
p Strathpeffer ¶§	9, –, 9	210	9·757	—	9·985	45·5	34·6	40·1	+2·9	53	11th	27	23rd	—	—	38·5	—	39·4	1·6	—	2·0	·201	—	·203	87	—	84
a Glencarron § ¶	9, –, 9	504	9·447	—	0·005	44·6	34·0	39·3	+2·4	53	25th	25	20th	—	—	39·2	—	39·0	1·7	—	1·9	·207	—	·201	86	—	85
p Ft. Augustus § ¶	9, –, 9	73	9·935	—	0·012	44·3	34·4	39·4	+1·2	52	25th	26	6, 18	—	—	38·7	—	39·1	1·5	—	1·5	·206	—	·209	88	—	88
p Ft. William § ¶	9, –, 9	38	9·986	—	0·024	44·4	35·0	39·7	+0·7	50	3, 25	26	21st	—	—	39·0	—	39·7	1·8	—	2·3	·204	—	·201	84	—	81
p Kingussie ... §	9, –, 9	828	9·114	—	0·031	41·9	31·6	36·8	—	50	12th	20	20th	—	—	35·7	—	36·9	1·4	—	2·2	·184	—	·179	87	—	82
p Dunrobin ... §	9, –, 9	16	9·975	—	9·988	43·3	33·8	38·6	−0·2	49	3, 13	29	18, 21	39·6	—	38·8	—	38·3	2·0	—	1·9	·194	—	·194	83	—	84
1. SCOTLAND, E.																											
a Nairn ... ¶§	7, 1, 6	82	9·895	+·155	9·992	44·6	32·6	38·6	+0·9	52	11, 12	24	18th	—	—	37·7	43·0	40·2	1·4	2·7	2·0	·199	·221	·209	88	80	85
p Gordon Castle § ¶	9, –, 9	107	9·908	—	0·024	46·7	34·7	40·7	+2·1	55	11th	29	5, 20, 24	—	—	39·4	—	39·1	2·0	—	2·0	·203	—	·200	84	—	84
Aberdeen ... ¶§	9, 3, 9	90	9·943	+·167	0·045	44·1	36·0	40·1	+2·0	52	3rd	31	19th	—	39·6	38·8	43·2	39·6	2·2	3·6	2·5	·194	·206	·195	83	74	80
			9·937	+·158	0·036			40·0	+1·8																		
a Balmoral ... § ¶	9, 3, –	927	8·996	—	0·030	44·8	31·0	37·9	—	55	13th	24	20th	—	—	35·1	43·2	—	1·8	2·1	—	·169	·234	—	82	84	—
p Braemar ... §	9, –, 9	1114	8·814	—	0·036	41 9	30·9	36·4	+1·9	55	13th	25	20th	—	—	35·2	—	35·8	1·1	—	1·4	·183	—	·183	89	—	86
p Dundee ... §	9, –, 9	164	9·897	—	0·076	43·7	34·0	38·9	+1·2	51	3rd	30	20, 23	—	—	38·0	—	37·7	1·0	—	0·8	·211	—	·213	92	—	93
p Crieff ... § ¶	9, –, 9	436	9·579	—	0·067	43·6	32·6	38·1	+0·2	52	13th	28	20th	—	—	37·4	—	38·2	1·6	—	1·7	·192	—	·197	86	—	86
a Leith ... ¶	7, –, 6	37	0·022	+·178	0·068	45·9	35·3	40·6	+0·9	53	11th	25	24th	—	—	39·1	—	42·2	2·0	—	2·6	·200	—	·216	84	—	81
p West Linton S ¶	9, 3, 9	805	9·186	—	0·083	43·0	31·2	37·1	+0·8	53	25th	23	22nd	—	—	36·7	40·9	36·4	1·3	2·5	1·4	·194	·206	·189	87	81	87
p Marchmont § ¶§	9, –, 9	500	9·542	—	0·005	44·7	32·8	38·8	+1·6	52	12, 13, 25	25	23rd	36·5	—	37·9	—	36·8	1·4	—	1·3	·201	—	·194	89	—	90
2. ENGLAND, N.E.																											
p Whitby	9, –, 9	158	9·947	—	0·118	47·1	35·6	41·4	+1·6	57	11th	27	22nd	—	—	43·9	—	40·0	3·2	—	1·9	·225	—	·213	77	—	85
p Cockle Park §	9, –, 9	331	9·738	—	0·104	44·9	33·8	39·4	—	55	11th	25	23rd	37·2	39·6	38·2	—	38·3	1·1	—	1·0	·213	—	·215	91	—	92
North *a* Shields ... ¶	7, –, 6	117	9·976	+·185	0·106	46·4	34·7	40·6	+1·4	55	3, 11	26	24th	—	—	39·4	—	42·3	1·5	—	2·3	·212	—	·222	88	—	83
p Durham ... ¶§	9, –, 9	352	9·723	—	0·112	45·1	33·5	39·3	+1·4	53	13th	25	22nd	—	—	38·3	—	38·8	1·1	—	1·3	·210	—	·212	90	—	89
p Rounton ... ¶§	9, –, 9	245	9·843	—	0·111	46·2	33·5	39·9	+2·1	54	13th	26	22nd	37·9	—	38·8	—	38·8	1·6	—	1·2	·205	—	·213	87	—	90
p Scarborough ¶§	9, –, 9	127	9·999	—	0·126	45·9	37·2	41·6	+2·4	55	11th	30	23rd	—	42·0*	41·7	—	41·3	1·8	—	1·6	·230	—	·229	85	—	86
p York ... ¶§	9, –, 9	53	0·096	—	0·149	46·5	34·6	40·6	+1·6	54	8th	28	23rd	39·3	41·6	38·6	—	39·5	1·6	—	1·7	·203	—	·209	87	—	86
South *a* Spurn Head ¶	7, 1, 6	28	0·103	+·191	0·139	44·9	36·2	40·6	+1·6	51	7th	32	18, 23, 24	—	—	39·3	43·5	42·1	1·6	2·4	2·0	·209	·231	·227	88	81	85
a Lincoln ... ¶	9, –, –	42	0·136	—	0·175	46·2	33·9	40·1	+1·4	55	9th	26	23rd	37·4	40·8	38·6	—	—	1·4	—	—	·211	—	—	88	—	—
a Skegness ... §	9, –, –	16	0·155	—	0·165	45·6	35·9	40·8	—	55	9th	30	12th	—	—	40·7	—	—	1·9	—	—	·215	—	—	85	—	—
p Hull ...	9, –, 9	12	0·154	—	0·160	46·6	35·6	41·1	−2·4	55	11th	28	22nd	38·5	42·3	40·3	—	40·9	1·9	—	1·9	·212	—	·216	85	—	85
3. ENGLAND, E.																											
p Lowestoft	9, 3, 9	77	0·104	—	0·192	45·4	36·7	41·1	+2·1	53	4, 9	32	20, 22	39·9	42·5	43·0	43·4	40·8	2·1	2·2	1·6	·235	·241	·226	84	84	87
p Cromer ... ¶§	9, –, 9	139	0·022	—	0·171	46·9	35·5	41·2	—	58	11th	29	23rd	—	—	39·4	—	39·4	1·4	—	0·7	·214	—	·228	89	—	95
North *p* Lit. Massingham ...	9, 3, 9	280	—	—	—	45·5	34·5	40·0	+1·5	54	9th	26	19th	—	—	38·9	43·5	38·8	1·1	1·3	0·8	·216	·253	·220	92	90	94
a Yarmouth ... ¶	7, 1, 9	27	0·057	+·216	0·187	45·8	36·8	41·3	+3·0	53	4, 9	32	2nd	39·9	43·8	39·5	44·0	41·3	1·7	2·2	1·9	·209	·240	·221	86	83	85
p Geldeston ... ¶§	9, –, 9	47	0·140	—	0·186	46·7	35·6	41·2	+2·2	58	11th	26	23rd	—	—	40·0	—	39·8	1·4	—	1·2	·218	—	·221	89	—	91
South *p* Cambridge... ¶§	9, –, 9	43	0·126	—	0·167	47·0	34·1	40·6	+1·6	56	9, 11	24	23rd	39·6	43·0	38·5	—	39·2	1·4	—	1·4	·210	—	·215	89	—	88
a Clacton ... ¶§	7, 1, 9	54	0·120	+·199	0·182	44·5	36·6	40·6	+1·2	52	4th	32	14, 15	41·3	44·3	39·1	43·3	41·2	1·4	2·2	1·5	·211	·233	·227	89	83	89
p Woburn	9, –, 9	294	9·877	—	0·201	46·0	33·6	39·8	—	55	9th	26	12, 19	—	—	38·1	—	38·5	1·5	—	1·1	·203	—	·214	87	—	91
a Bennington ...	9, 3, 9	411	—	—	—	45·7	34·1	39·9	+1·6	58	11th	25	19th	39·9	41·9	37·6	43·6	38·6	1·2	3·3	1·5	·205	·220	·209	89	77	86
a Berkhamsted ...	9, –, 9	397	9·757	—	0·197	46·1	33·5	39·8	+1·1	57	11th	22	23rd	39·1	—	37·7	—	38·5	1·5	—	1·6	·197	—	·204	85	—	85
4. MIDLAND COUNTIES.																											
a Garforth	9, –, 9	198	—	—	—	45·9	32·4	39·2	—	53	7, 26	23	23rd	39·4	41·7	38·7	—	39·4	1·5	—	1·6	·211	—	·212	88	—	87
p Huddersfield ...	9, 3, 9	411	9·675	—	0·135	43·6	34·8	40·2	—	52	7, 25, 26	27	23rd	38·0	41·1	38·0	44·0	39·2	1·4	3·2	1·5	·206	·226	·214	87	77	87
p Sheffield ... §	9, –, 9	450	9·658	—	0·154	46·5	36·0	41·3	+1·9	59	11th	29	19, 23	38·4	41·5	39·5	—	41·0	2·0	—	2·3	·206	—	·214	83	—	82
a Worksop ...	9, –, 9	67	0·089	+·184	0·157	46·8	32·9	39·9	+1·7	55	9th	25	23rd	38·9	41·2	38·2	44·7	—	1·3	2·8	—	·204	·235	—	89	79	—
p Buxton	9, 3, 9	997	9·047	—	0·156	44·5	32·8	38·7	+2·6	57	11, 12	26	22nd	38·1	41·9	36·6	42·6	38·2	1·3	2·5	2·0	·192	·221	·192	89	82	84
East *a* Belvoir Castle ...	9, –, 9	276	9·877	—	0·181	45·6	33·6	39·6	+0·9	56	9th	24	13th	40·7*	42·0	37·1	—	39·1	0·9	—	1·1	·203	—	·217	92	—	91
a Coventry ...	9, –, –	309	9·843	—	0·182	46·2	33·9	40·1	+0·7	56	9th	26	13, 23	39·3	43·9	38·0	—	—	1·3	—	—	·203	—	—	89	—	—
a Thrapston	9, 3, –	351	—	—	—	46·1	32·3	39·2	—	56	9th	22	23rd	—	—	37·5	44·6	—	1·3	3·1	—	·199	·228	—	89	78	—
a Nottingham ¶§	9, 1, 9	85	0·059	+·175	0·156	46·1	33·2	39·7	+0·7	56	9th	23	23rd	38·0	40·2	37·0	43·8	39·8	0·9	2·4	1·5	·202	·234	·215	92	81	88
a Birmingham ¶§	9, –, 9	542	9·574	—	0·173	45·7	35·5	40·6	+1·7	57	11th	27	19, 23	40·4	44·0	37·5	—	40·6	1·3	—	2·2	·201	—	·213	88	—	83
a Oxford ... ¶§	8, –, 8	212	—	—	—	46·1	35·5	40·8	+1·1	55	9th	28	14, 19	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			9·952	+·185				40·5											2·2			·208			82		
West *a* Bath ... ¶§	7, –, 6	84	0·082	+·196	0·182	48·3	34·6	41·5	+1·0	57	10th	28	14th	41·4	45·5	38·4	—	33·3	—	—	—	—	—	—	—	—	—
p Shrewsbury ¶	9, –, 9	212	9·933	—	0·163	47·6	34·9	41·3	+1·2	57	11th	24	13th	—	—	38·9	—	40·5	1·4	—	1·7	·215	—	·222	88	—	86
p Wistanstow ..	9, –, 9	484	9·621	—	0·155	46·5	33·8	40·2	—	57	4th	27	12, 14, 28	—	—	38·2	—	39·1	1·4	—	1·0	·202	—	·219	88	—	92
p Bromyard	9, –, 9	400	9·718	—	0·159	46·2	33·7	40·0	—	56	9th	24	23rd	39·0	41·8	38·6	—	38·9	1·5	—	1·4	·209	—	·214	87	—	88
p Cheltenham ...	9, –, 9	206	9·966	—	0·189	45·2	35·3	40·3	+0·9	54	9th	25	13th	—	—	39·6	—	39·3	1·3	—	1·2	·217	—	·217	89	—	91
5. ENGLAND, S.E.																											
p Reading	9, –, 9	264	9·890	—	0·179	46·4	33·8	40·1	—	54	4, 5, 11	24	23rd	—	—	37·9	—	39·6	0·8	—	0·9	·211	—	·225	93	—	93
p Salisbury	9, –, 9	186	—	—	—	46·3	33·8	40·1	+0·8	53	9, 12	23	23rd	41·2	—	39·0	—	39·8	1·2	—	1·2	·214	—	·221	90	—	91
a Grayshott	9, 2, –	659	9·460	—	0·197	45·4	34·3	39·9	—	57	11th	27	19th	39·5	—	38·2	44·3	—	1·0	3·5	—	·210	·218	—	92	74	—
a Midhurst	9, 2, –	493	9·637	—	0·179	45·4	35·9	40·7	—	56	11th	27	22nd	—	—	39·5	44·0	—	1·6	3·1	—	·215	·228	—	87	79	—
a Brighton	9, –, –	48	0·159	—	0·207	46·3	38·6	42·5	+1·9	54	27th	29	19th	—	43·8	41·4	—	—	1·9	—	—	·222	—	—	86	—	—
a Portsmouth ...	9, –, –	18	0·188	—	0·202	47·0	37·7	42·4	+1·8	54	4th	30	12, 19	42·4	45·8	41·6	—	—	1·8	—	—	·226	—	—	86	—	—
p Eastbourne §	9, –, 9	36	0·162	—	0·196	46·8	37·9	42·4	+1·4	55	27th	29	14th	42·8	45·8	42·8	—	42·8	2·1	—	1·5	·236	—	·249	84	—	88
a Dover	7, –, 6	234	9·942	—	0·210	45·5	36·7	41·1	—	56	11th	29	19, 20	42·0	45·2	39·9	—	42·2	1·7	—	2·3	·212	—	·221	87	—	83
a Dungeness... ¶	7, 1, 6	21	0·129	+·164	0·158	46·3	38·1	42·2	+2·2	52	7, 11	30	19, 20	—	—	41·4	45·5	44·1	1·7	2·7	2·1	·226	·245	·243	88	81	83
p Hastings ... ¶	9, –, 9	174	0·005	—	0·191	46·1	38·5	42·3	+2·2	54	11th	30	19th	41·2	44·5	41·7	—	41·9	2·0	—	1·5	·223	—	·235	86	—	89
p Southampton ¶§	9, –, 9	84	0·108	—	0·195	46·9	36·8	41·9	+0·7	54	4, 27	29	19, 22	—	—	40·8	—	41·9	1·8	—	2·0	·225	—	·229	86	—	84
a Ventnor ... ¶§	9, 3, –	80	0·081	—	0·165	47·0	39·3	43·2	+1·0	54	11. 27	31	19th	—	—	42·4	45·7	—	2·4	3·0	—	·221	·241	—	82	79	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

* At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of FEBRUARY, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 84 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more).	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
1·23	—	13	—	8·4	8·7	8·3	2·10	—	0·31	13th	19	14	4	1	6	2	0	21	1	—	1	41	6	5	5	2	19	18	12	15	2	Castlebay.
1·24	−0·69	14	− 7	7·8	—	5·5	1·78	−1·08	0·44	2nd	14	13	3	0	1	1	1	10	3	—	2	34	10	5	1	1	10	23	18	12	4	Deerness.
—	—	—	—	7·8	7·2	7·2	3·04	—	0·70	7th	22	15	5	—	5	1	0	8	6	—	4	28	4	5	2	2	10	22	25	8	6	Lerwick.
1·64	−0·50	18	− 5	7·6	7·3	7·2	3·39	−0·50	0·76	7th	22	13	3	—	1	0	0	16	0	—	6	45	0	2	9	3	6	20	29	12	3	Stornoway.
—	—	—	—	7·1	7·0	6·2	1·16	−0·93	0·23	7th	17	8	4	—	0	0	0	3	3	—	1	18	10	1	4	1	1	17	32	14	4	Wick.
1·35	−0·83	15	− 8	7·5	—	4·9	2·28	−0·35	0·64	5th	18	10	5	7	0	0	3	9	0	—	1	18	42	0	3	2	0	6	19	9	3	Strathpeffer.
—	—	—	—	8·5	—	6·2	7·09	−0·02	2·43	2nd	18	15	2	—	0	0	2	15	3	—	3	24	0	16	0	26	0	2	3	37	0	Glencarron.
0·82	−0·68	9	− 7	8·7	—	6·6	5·61	+1·54	1·15	3rd	18	11	2	2	1	0	2	16	0	—	0	24	2	2	10	4	3	8	42	9	4	F. Augustus.
—	—	—	—	9·3	—	7·1	7·43	+0·19	1·66	2nd	19	13	3	2	0	1	0	18	3	—	0	20	28	0	12	3	0	3	36	2	0	Ft. William.
—	—	—	—	8·6	—	7·2	3·99	—	0·90	2nd	14	11	7	6	0	0	1	19	0	—	2	21	22	2	0	2	0	1	9	45	3	Kingussie.
—	—	—	—	6·4	—	6·5	1·52	−0·89	0·30	5th	12	9	2	0	0	0	4	9	0	—	0	6	40	0	0	12	2	3	3	24	0	Dunrobin.
1·60	—	17	—	7·9	7·1	6·8	2·23	+0·64	0·72	5th	19	13	2	—	0	0	0	5	0	9	1	6	34	3	0	2	1	3	8	33	0	Nairn.
1·82	—	20	—	7·9	—	6·3	1·12	−0·78	0·38	5th	12	7	4	0	0	0	0	10	1	—	0	20	0	2	2	1	12	30	30	3	4	Gordon C.
1·57	−1·00	17	−11	6·6	6·4	5·9	0·76	−1·48	0·22	7th	10	5	1	0	0	0	2	8	1	—	1	14	20	2	1	2	5	19	24	5	6	Aberdeen.
—	—	—	—	6·5	—	—	1·29	—	0·38	7th	15	7	7	5	0	0	4	13	0	21	2	12	0	3	3	0	0	6	18	42	12	Balmoral.
—	—	—	—	6·5	—	—	1·54	−1·12	0·39	5th	10	8	6	5	1	0	0	7	0	21	2	9	0	3	0	0	12	3	36	24	6	Braemar.
—	—	—	—	9·0	—	9·1	0·66	−1·50	0·15	4th	11	6	1	1	0	0	0	22	3	—	1	11	0	7	11	4	12	2	41	3	4	Dundee.
—	—	—	—	9·2	—	6·3	3·42	+0·15	0·57	7th	19	13	4	3	0	0	0	13	0	—	1	21	0	0	7	21	0	0	11	32	13	Crieff.
—	—	—	—	7·2	—	7·0	0·82	−0·64	0·31	10th	14	6	1	—	0	0	1	11	6	—	0	21	10	2	9	9	9	6	24	9	6	Leith.
1·30	—	14	—	7·4	7·6	6·1	1·86	—	0·33	3rd	15	11	4	2	1	0	2	12	2	17	0	4	24	3	8	5	0	7	32	5	0	West Linton.
1·74	−0·58	19	− 6	7·0	—	5·5	1·13	−1·16	0·18	10th	16	10	1	1	0	0	4	12	0	19	0	12	0	13	2	7	0	2	21	37	2	Marchmont.
2·53	—	27	—	5·7	—	5·6	0·62	−1·06	0·23	7th	10	6	2	0	3	0	3	8	4	—	2	21	13	5	3	13	2	9	24	13	2	Whitby.
2·74	—	29	—	6·0	—	4·8	0·82	−1·26	0·12	14th	18	11	4	1	0	0	2	4	2	16	0	12	1	3	1	9	3	5	11	46	5	Cockle Park.
—	—	—	—	8·5	—	8·2	0·49	−0·99	0·10	14th	11	4	2	—	0	0	0	17	5	—	1	11	3	6	7	7	3	21	21	11	5	Shields.
1·94	−0·42	20	− 4	7·5	—	6·1	0·69	−0·83	0·19	6, 7	11	5	3	0	0	0	3	9	2	16	4	15	21	1	4	9	2	14	22	6	5	Durham.
—	—	—	—	7·2	—	7·0	0·91	−0·68	0·28	6th	14	8	0	0	0	0	3	15	7	20	2	14	15	2	6	7	5	15	21	6	7	Rounton.
1·91	—	20	—	7·5	—	8·6	0·61	−1·18	0·23	7th	15	4	0	0	0	0	0	14	5	—	0	41	0	0	9	2	10	2	43	6	12	Scarborough
1·44	−0·60	15	− 6	5·9	—	5·7	0·63	−1·01	0·26	7th	15	4	0	0	0	0	5	8	5	—	0	2	3	6	12	6	2	22	12	19	2	York.
—	—	—	—	6·7	7·8	7·1	0·60	−0·57	0·16	9th	12	5	0	—	0	0	0	7	6	—	7	57	1	2	9	11	11	22	14	10	4	Spurn Head.
—	—	—	—	6·8	—	5·4	0·60	−0·96	0·21	9th	10	3	0	0	0	0	4	11	4	—	1	11	5	0	9	22	6	2	19	12	9	Lincoln.
2·38	—	25	—	7·0	—	—	0·60	—	0·21	9th	10	3	0	0	0	0	2	13	2	—	1	60	3	0	12	6	6	30	15	6	6	Skegness.
0·89	—	9	−	6·4	—	5·0	0·68	−1·06	0·27	9th	15	5	2	0	0	0	3	7	3	20	0	2	26	3	8	7	3	13	24	0	0	Hull.
2·95	—	30	—	6·0	6·3	5·5	0·54	−0·85	0·27	1st	7	3	4	0	1	0	3	10	5	7	0	40	3	8	9	14	4	20	14	11	1	Lowestoft.
2·90	—	30	—	7·9	—	7·5	0·50	—	0·15	2nd	12	5	0	0	0	0	0	12	3	—	0	42	0	5	6	9	13	22	14	10	5	Cromer.
2·52	+0·02	26	0	6·1	6·5	5·2	0·80	−0·95	0·21	9th	14	7	0	0	0	0	2	7	4	19	1	27	3	5	10	10	4	13	30	8	1	L. Mas'gh'm.
2·88	—	30	—	5·7	5·6	5·1	0·79	−0·74	0·29	1st	10	4	0	—	0	0	3	5	5	—	0	21	6	5	12	11	5	17	14	14	0	Yarmouth.
2·86	+0·22	29	+12	6·3	—	5·4	0·68	−0·70	0·33	1st	8	4	0	0	1	0	6	12	4	—	0	2	7	6	9	16	11	9	13	11	2	Geldeston.
2·30	−0·34	24	− 3	7·3	—	6·1	0·76	−0·62	0·20	9th	11	6	0	0	0	0	2	13	4	18	2	9	12	12	7	2	12	10	18	5	6	Cambridge.
2·74	—	28	—	6·3	7·1	6·5	0·60	—	0·20	1st	8	3	1	—	0	0	0	10	2	12	0	29	3	2	13	10	7	15	17	9	8	Clacton.
2·20	—	23	—	8·0	—	5·7	1·06	—	0·28	7th	10	6	0	0	0	0	3	14	5	—	2	23	22	0	10	9	5	6	19	8	5	Woburn.
2·15	—	22	—	7·5	7·5	6·3	0·70	−0·97	0·20	9th	10	4	0	0	0	0	1	12	7	19	0	7	19	3	8	12	9	4	15	13	1	Bennington.
2·09	—	21	—	7·8	—	6·5	0·89	−1·15	0·25	7th	13	6	3	0	0	0	2	13	4	22	0	2	24	3	15	1	3	16	12	8	2	Berkh'mst'd.
1·49	—	16	—	6·9	—	6·1	0·74	—	0·16	6th	16	5	1	1	1	0	1	9	5	21	0	3	7	2	18	3	12	16	14	9	3	Garforth.
1·70	—	18	—	6·6	6·5	5·9	1·35	—	0·34	7th	15	9	0	0	0	0	2	6	3	15	2	16	17	5	10	9	2	5	14	18	4	Huddersf'ld.
1·83	—	19	—	7·3	—	6·5	1·22	−1·18	0·43	7th	12	9	1	0	0	0	1	11	4	18	0	11	12	7	9	5	9	15	16	6	5	Sheffield.
1·63	−0·41	17	− 4	7·6	8·5	5·5	0·77	−1·14	0·20	9th	15	5	0	0	0	0	0	10	5	19	0	14	8	4	15	5	10	14	22	5	1	Worksop.
1·97	—	20	—	6·6	6·3	6·1	2·12	−1·88	0·63	9th	14	9	2	1	0	0	3	10	0	21	0	5	5	1	9	12	8	11	14	18	6	Buxton.
2·26	—	23	—	6·9	—	4·3	0·76	−0·96	0·30	9th	12	7	1	0	0	0	2	7	6	16	2	17	19	6	9	4	2	15	18	8	3	Belvoir C.
1·80	—	19	—	7·6	—	—	0·86	−0·90	0·29	9th	10	7	0	0	0	0	6	20	4	21	0	6	18	0	18	0	9	24	6	6	3	Coventry.
2·16	—	22	—	8·1	6·8	—	0·54	—	0·24	9th	8	4	1	0	0	0	2	15	6	19	—	—	0	3	8	15	6	12	19	12	9	Thrapston.
1·48	—	15	—	6·9	7·9	6·3	0·80	−0·82	0·37	9th	15	5	0	—	0	0	1	10	4	17	2	33	1	3	10	14	6	9	26	14	1	Nottingham.
1·72	—	18	—	7·7	—	4·4	0·81	−1·85	0·30	9th	12	6	0	0	0	0	3	9	2	19	0	9	15	2	12	9	7	16	15	5	3	Birmingh'm.
2·06	−0·30	21	− 3	—	—	—	0·99	−0·71	0·24	9th	13	—	1	—	1	—	—	—	6	17	—	—	—	—	—	—	—	—	—	—	—	Oxford.
				7·1			0·97	−0·65				5		0																	
2·51	—	26	—	8·3	—	6·6	1·01	−1·17	0·27	7th	11	6	—	—	—	—	2	15	—	—	—	18	18	2	3	21	6	6	16	10	2	Bath.
—	—	—	—	7·9	—	6·4	0·97	—	0·33	9th	7	7	0	0	2	0	1	13	5	16	2	11	14	3	9	6	4	20	22	3	3	Shrewsbury.
—	—	—	—	8·1	—	6·3	1·78	—	0·43	9th	12	10	1	0	0	0	4	15	1	16	1	3	42	2	12	1	0	3	21	2	1	Wistanstow.
—	—	—	—	7·8	—	5·6	1·30	—	0·39	9th	12	7	1	0	0	0	1	9	6	20	0	17	21	0	8	10	8	11	15	10	1	Bromyard.
1·80	—	18	—	6·1	—	6·9	0·88	−1·20	0·28	7th	11	6	1	0	0	0	4	11	3	18	1	23	10	9	10	5	6	6	33	2	3	Cheltenham.
2·11	—	22	—	8·7	—	5·8	0·91	−0·89	0·20	7th	13	8	2	2	0	0	2	15	5	—	0	11	28	3	3	4	9	14	12	9	2	Reading.
—	—	—	—	7·7	—	6·3	1·71	−0·86	0·52	7th	20	9	1	0	0	0	1	11	5	16	1	20	0	4	24	2	9	0	21	6	18	Salisbury.
2·74	—	28	—	7·4	6·9	—	1·45	—	0·56	7th	14	8	4	0	0	0	2	13	9	15	1	14	3	0	21	9	13	12	9	9	8	Grayshott.
2·95	—	30	—	7·1	6·6	—	1·62	—	0·53	7th	16	8	1	0	0	0	3	13	4	—	1	48	4	5	12	7	9	15	24	3	5	Midhurst.
2·81	+1·0	28	+ 1	7·3	—	—	1·11	−0·88	0·39	1st	10	7	1	0	0	0	2	16	0	9	0	38	3	6	12	27	6	3	9	15	3	Brighton.
3·18	—	32	—	6·7	—	—	1·17	−0·85	0·34	1st	10	7	0	0	0	0	8	17	2	15	0	42	3	12	3	18	9	12	15	6	6	Portsmouth.
2·89	+0·21	29	+ 2	6·6	—	4·5	1·21	−1·03	0·50	1st	8	5	0	0	0	0	7	11	5	—	1	9	6	3	27	6	5	5	19	6	7	Eastbourne.
3·35	—	34	—	5·7	—	5·6	1·01	—	0·53	1st	12	4	1	—	0	0	5	9	3	7	2	39	5	6	18	5	4	9	26	4	7	Dover.
—	—	—	—	7·1	6·8	7·3	0·95	−0·37	0·54	1st	7	3	1	—	0	0	0	8	6	—	5	52	0	9	16	11	7	13	18	8	2	Dungeness.
3·14	+0·21	32	+ 3	6·0	—	4·5	1·23	−0·82	0·44	1st	10	7	1	0	1	0	9	11	1	10	2	38	1	8	18	10	9	9	16	8	5	Hastings.
2·76	+0·08	28	+ 1	6·7	—	6·3	1·25	−1·03	0·37	1st	11	8	1	0	0	0	2	13	3	15	0	18	0	0	30	2	12	0	27	0	13	S'mpton.
2·89	+0·03	29	0	7·6	6·6	—	0·75	−1·45	0·26	1st	12	7	1	0	0	0	4	13	2	—	0	30	5	6	12	15	13	13	9	0	3	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
LONDON.																											
p Tottenham... ¶§	9, –, 9	55	0·125	—	0·180	46·9	36·5	41·7	+1·9	55	4th	26	23rd	—	44·2	40·1	—	41·0	2·0	—	1·6	·209	—	·229	84	—	87
p Hampstead ...	9, –, 9	453	9·712	—	0·210	45·1	35·5	40·3	—	54	11th	27	19th	—	—	38·9	—	40·3	1·4	—	1·7	·210	—	·215	90	—	87
a Camden Square ...	9, –, 9	123	0·064	—	0·195	46·9	35·4	41·2	+1·2	55	4th	24	23rd	39·5	43·5	40·3	—	41·3	1·6	—	2·0	·217	—	·219	87	—	83
a Westminster ...	9, 3, –	—	—	—	—	47·4	37·2	42·3	+1·9	55	4, 7, 8	30	14th	—	—	41·0	—	45·6	1·5	—	3·2	·225	—	·234	88	—	77
a South Kensington*	9, 3, 6	70	0·115	—	0·187	47·3	38·5	42·9	—	55	4, 11	31	19th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Greenwich... ...	9, –, 9	159	0·013	—	0·185	46·7	35·6	41·1	+1·7	55	4th	24	23rd	—	43·3	40·2	—	40·3	1·9	—	1·8	·211	—	·213	85	—	86
			0·003	+·184	0·183			40·9	+1·5																		
Kew ... ¶§	9, 3, 9	34	0·134	+·162	0·173	46·0	36·7	41·4	+1·4	53	4, 7	27	23rd	40·6	44·6	39·9	44·9	40·9	2·2	3·9	2·3	·203	·215	·209	83	72	83
			0·134	+·161	0·172			41·2	+1·3																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	9·233	—	0·101	42·4	31·5	37·0	—	49	25th	18	23rd	—	—	36·4	40·5	36·1	1·0	2·2	1·1	·199	·211	·194	90	83	89
p Poltalloch ... §¶	9, –, 9	135	9·905	—	0·053	45·1	35·6	40·4	+1·2	50	3rd	26	19, 21	—	—	39·6	—	39·9	1·7	—	1·7	·210	—	·212	86	—	87
p Glasgow ... ¶§	9, –, 9	184	9·863	—	0·064	44·5	37·1	40·8	+1·8	50	7th	31	21st	—	—	39·6	—	40·8	1·5	—	2·1	·217	—	·216	88	—	84
p Rothesay ... §¶	9, –, 9	76	9·979	—	0·060	45·6	37·0	41·3	+1·5	52	27th	28	21st	—	41·8	40·3	—	40·4	1·6	—	1·9	·217	—	·213	88	—	85
a Colmonell ... §¶	9, 3, –	150	9·929	—	0·101	46·5	35·2	40·9	+1·4	51	25th	25	17, 21	—	—	39·8	45·0	—	1·0	2·1	—	·225	·251	—	92	84	—
p Dumfries ... §¶	9, –, 9	155	9·958	—	0·127	44·9	35·3	40·1	+0·9	51	26, 27	25	23rd	39·0	40·6	39·1	—	40·1	1·5	—	1·9	·209	—	·210	88	—	85
p Cally ... §¶	9, –, 9	120	0·001	—	0·131	45·6	36·8	41·2	+2·3	50	26, 27	28	21st	—	—	41·1	—	40·9	1·4	—	1·7	·228	—	·220	89	—	87
p Douglas ... ¶§	9, –, 9	284	9·798	—	0·109	45·9	38·6	42·3	+1·6	50	7, 27	34	19th	—	—	41·8	—	42·0	1·3	—	1·4	·241	—	·241	90	—	89
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	0·102	—	0·150	46·4	35·9	41·2	+1·6	53	7, 11, 25	28	19th	38·8	40·9	39·6	45·0	40·4	1·3	3·0	1·7	·223	·240	·219	89	80	86
p Manchester (City)	9, –, 9	195	9·939	—	0·150	46·2	37·7	42·0	—	53	10th	31	19th	39·1	42·7	40·6	—	42·1	1·9	—	2·2	·220	—	·226	85	—	83
p „ (WhitworthPk.)	9, –, 9	127	0·003	—	0·140	46·9	37·3	42·1	—	55	11th	30	22nd	—	—	40·5	—	41·5	2·1	—	2·2	·210	—	·217	84	—	83
p Darwen	9, –, 9	730	9·341	—	0·147	44·3	34·8	39·6	—	55	11, 12	28	22, 23	38·9	40·8	39·3	—	39·3	1·5	—	1·2	·216	—	·220	88	—	90
p Egremont	9, –, 9	354	9·730	—	0·119	45·1	35·3	40·2	—	53	11th	30	16,19,20	40·0	42·0	39·7	—	39·5	1·2	—	1·6	·220	—	·214	86	—	86
p Aspatria ... §§	9, –, 9	254	9·824	—	0·101	45·1	34·6	39·9	+1·7	52	25th	26	19th	40·1	42·7	39·9	—	39·9	1·1	—	1·3	·226	—	·223	90	—	90
p Newton Rigg §§	9, –, 9	559	9·485	—	0·103	44·6	33·0	38·8	+1·7	55	11th	25	22nd	38·9	40·3	37·7	—	38·5	1·3	—	1·7	·201	—	·199	89	—	86
p Stonyhurst §§	9, –, 9	363	9·758	—	0·151	44·7	36·6	40·7	+2·0	51	7th	30	19th	—	—	39·7	—	40·4	2·3	—	2·3	·203	—	·209	81	—	81
p Blackpool ... §§	9, –, 9	73	0·054	—	0·130	46·0	36·3	41·2	+1·9	52	7, 11, 25	27	19th	40·7	43·6	41·2	—	40·1	1·8	—	1·4	·226	—	·223	86	—	88
p Liverpool (Bid.) §§	9, –, 9	202	9·920	—	0·137	45·8	36·9	41·4	+1·4	54	7th	29	23rd	—	—	39·6	—	41·4	1·5	—	2·0	·213	—	·220	88	—	85
p Llandudno... §§	9, –, 9	32	0·129	—	0·157	47·0	39·2	43·1	+1·3	57	25th	32	23rd	—	—	42·3	—	43·3	1·8	—	1·7	·232	—	·244	87	—	87
a Holyhead ... ¶	7, 1, 9	48	0·058	+·173	0·113	46·6	39·0	42·8	+1·0	52	25th	31	22nd	—	—	42·1	45·9	43·1	0·6	1·6	0·9	·255	·273	·258	95	89	93
p Bettws-y-Coed §§	9, –, 9	125	9·998	—	0·131	47·6	35·2	41·4	0·0	55	25th	23	22nd	39·9	43·2	42·7	—	43·0	2·6	—	2·6	·220	—	·223	81	—	80
p Dwyran	9, –, 9	30	0·107	—	0·133	47·5	37·5	42·5	—	54	5th	27	21st	42·3	44·2	43·9	—	42·6	1·5	—	0·7	·254	—	·258	88	—	94
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·522	—	0·170	47·3	32·2	39·8	+0·3	56	13th	19	14th	39·6	43·9	37·6	—	—	1·0	—	—	·206	—	—	91	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·952	+·160	0·121	47·0	38·9	43·0	+0·6	52	4, 7, 9	27	20, 21	—	—	41·6	44·7	43·0	1·1	1·7	1·7	·240	·257	·240	92	87	86
a Portland Bill ¶	7, 1, 9	23	0·12c	+·143	0·159	46·8	39·9	43·4	+1·0	51	3, 4, 7	32	19, 20, 21	—	—	42·3	45·6	42·9	1·3	1·8	1·8	·242	·266	·237	90	87	86
p Plymouth ... ¶§	9, 3, 9	116	0·006	—	0·135	48·2	38·5	43·4	+0·7	56	10th	30	14, 20	42·7	—	43·0	46·5	42·9	1·8	2·5	1·4	·238	·259	·246	86	82	89
Falmouth ... ¶§	9, 3, 9	183	9·961	+·168	0·164	47·2	40·4	43·8	+0·1	53	7, 9	31	20, 21	—	—	43·7	46·3	43·5	1·9	2·8	2·1	·244	·252	·237	85	81	83
			9·961	+·167	0·164			44·0	+0·3																		
p Cardiff	9, –, 9	216	9·917	—	0·151	45·7	35·0	40·4	−0·3	53	4th	23	14th	40·5	44·0	39·0	—	40·2	1·4	—	1·7	·210	—	·215	89	—	87
a Newquay ... §	7, –, 6	161	9·965	+·144	0·137	47·2	37·8	42·5	−1·3	54	4th	27	21st	44·2	—	41·7	—	44·3	1·6	—	1·9	·230	—	·249	88	—	85
p Woolacombe ...	9, –, 9	120	0·045	—	0·172	48·6	38·8	43·7	−0·2	58	12th	32	19, 20	—	—	43·4	—	43·8	1·8	—	1·7	·247	—	·250	86	—	86
a Princetown ...	9, 3, –	1360	8·617	—	—	44·1	33·3	38·7	—	60	13th	24	20, 21	—	—	37·9	42·9	—	1·4	3·0	—	·201	·214	—	89	78	—
p Sheepstor	9, 3, 9	730	9·347	—	0·158	46·5	33·1	39·8	—	61	12th	23	13, 14	—	—	38·8	45·2	38·0	1·3	3·3	1·2	·215	·238	·212	87	77	89
p Teignmouth ...	9, 3, 9	20	0·151	—	0·173	48·0	39·2	43·6	—	55	4th	28	14th	—	—	41·9	46·7	43·9	1·8	2·9	2·0	·228	·253	·244	85	79	85
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·735	+·138	9·997	46·3	37·7	42·0	+0·3	53	12th	32	2nd	—	—	40·9	44·1	42·8	1·1	1·4	1·4	·233	·258	·245	91	89	89
West. *a* Blacksod Point ¶	7, 1, 9	41	9·952	+·108	9·998	47·5	39·6	43·6	+0·7	52	7th	33	18th	—	—	43·5	46·0	44·1	1·5	1·7	1·2	·249	·272	·262	84	88	90
West. *p* Markree Castle ¶§	9, –, 9	127	9·919	—	0·059	47·8	34·0	40·9	+0·4	57	7th	26	19th	41·7	44·0	39·5	—	40·0	1·2	—	1·5	·222	—	·222	90	—	88
East. *a* Donaghadee ¶	7, 1, 9	40	0·029	+·162	0·074	46·3	38·3	42·3	+1·3	52	3rd	32	1st	—	—	41·1	44·2	42·6	1·6	2·1	1·8	·224	·244	·235	87	84	87
East. *p* Armagh ... ¶§	9, –, 9	202	9·836	—	0·054	46·8	36·4	41·6	+1·6	55	7th	30	19th	40·9	43·1	40·9	—	40·5	1·6	—	1·9	·226	—	·218	87	—	85
East. *a* Belfast	9, –, 9	55	—	—	—	47·8	36·6	42·2	—	55	7, 27	31	1, 15	—	—	41·8	—	41·7	1·8	—	1·8	·230	—	·231	86	—	86
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	47·3	34·2	40·8	—	55	11th	27	28th	40·6	43·6	39·8	—	40·2	1·1	—	1·2	·223	—	·224	92	—	90
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	48·9	37·6	43·3	—	57	7th	31	14th	42·0	44·3	42·8	—	43·7	2·4	—	2·5	·229	—	·236	82	—	82
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·920	—	0·092	48·1	34·5	41·3	+0·7	55	7th	28	13, 14, 22	—	—	41·8	—	40·7	1·8	—	1·6	·232	—	·224	86	—	87
East. *p* „ (City)... ¶	9, –, 9	53	0·025	—	0·081	48·0	38·7	43·4	+1·0	56	7th	32	14th	—	—	42·2	—	43·2	2·2	—	2·2	·230	—	·235	84	—	84
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·832	—	0·049	48·2	35·6	41·9	+1·1	56	7th	26	20th	41·7	43·7	40·0	45·8	43·5	1·2	2·6	1·9	·222	·250	·242	90	81	85
West. Valencia ... ¶§	9, 3, 9	45	0·002	+·123	0·053	48·1	40·3	44·2	−0·6	54	11th	32	19th	—	—	43·5	46·9	44·1	1·5	2·7	1·8	·249	·258	·249	88	81	85
			0·003	+·123	0·053			44·4	−0·3																		
West. *a* Roche's Point ¶	7, 1, 6	42	0·045	+·151	0·098	47·1	39·7	43·4	−0·4	52	7, 11, 27	31	19th	—	—	43·3	46·1	44·8	0·6	1·1	0·9	·267	·286	·276	96	92	93
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·998	—	0·055	48·6	35·9	42·3	—	57	11th	28	20, 27	42·9	—	41·2	46·5	41·6	0·8	2·0	0·9	·247	·275	·250	93	85	93
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·953	+·151	0·121	48·6	41·1	44·9	−0·7	54	7th	32	19th	—	—	44·5	47·4	45·3	0·8	1·3	1·0	·275	·293	·279	94	92	92
a Jersey ... ¶§	7, 1, 9	36	0·153	+·169	0·194	48·9	39·9	44·4	+1·3	60	11th	32	19th	—	—	42·7	46·4	44·3	2·1	3·0	2·0	·230	·248	·247	84	80	84
p Guernsey (Brooklyn).	9, –, 9	311*	9·839	—	0·177	48·4	41·3	44·9	+1·3	54	11th	33	18th	44·1	46·6	43·1	—	44·2	2·3	—	2·2	·233	—	·248	83	—	83
a Gibraltar ...	7, 1, 9	53	0·093	—	0·150	61·6	50·5	56·1	—	69	15th	43	21, 22	—	—	52·9	58·1	54·3	2·8	4·6	3·0	·331	·363	·343	82	74	81

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet given in 1912 is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m. and 6 p.m. or 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of FEBRUARY, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 84 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
1·66	—	17	—	8·8	—	6·9	0·68	—	0·21	1st	7	5	1	0	0	0	1	15	3	15	0	5	8	6	18	1	9	3	25	6	8	Tottenham.
1·75	—	18	—	8·1	—	7·0	0·80	—	0·22	1st	11	6	2	0	0	0	2	17	12	17	0	9	15	6	16	5	3	12	19	5	3	Hampstead.
1·59	—	16	—	8·1	—	—	0·79	−0·84	0·25	1st	12	5	1	0	0	0	3	19	4	16	—	—	12	9	12	0	3	12	15	18	3	Camden Sq.
1·26	+0·05	13	+ 1	—	—	—	0·74	—	0·23	1st	11	5	1	—	2	0	—	—	5	14	—	—	—	—	—	—	—	—	—	—	—	—	Westminster
1·03	—	10	—	8·3	—	5·3	0·71	—	0·22	1st	9	5	0	—	0	0	1	12	5	16	0	17	7	3	15	13	5	9	22	7	3	S.Kensingtn
2·08	+0·05	21	+ 1	8·4	—	6·3	0·81	−0·67	0·23	1st	12	6	1	0	0	0	2	16	5	17	0	17	17	3	11	11	5	6	18	11	2	Greenwich.
1·31	−0·69	13	− 7	8·4	7·0	7·3	0·78	−0·77	0·21	1st	12	5	1	0	1	0	0	15	5	15	0	28	17	6	15	6	4	10	19	5	2	Kew.
1·29	—	14	—	8·1	8·7	6·8	4·76	—	1·44	3rd	15	11	2	0	1	0	0	13	1	—	3	31	19	7	10	4	2	12	24	5	1	Eskdalemuir
—	—	—	—	8·9	—	7·3	3·51	−0·15	0·56	6th	16	12	1	—	0	2	1	17	0	—	1	23	15	6	3	4	13	8	18	11	6	Poltalloch.
0·60	−0·94	6	−10	8·8	—	8·8	2·88	+0·09	0·59	3rd	14	12	1	1	0	1	0	19	0	8	0	15	18	1	7	12	5	8	17	15	1	Glasgow.
—	—	—	—	8·9	—	7·1	3·27	−0·37	0·81	7th	15	13	1	1	0	1	0	16	14	—	2	21	12	2	0	21	7	15	2	22	3	Rothesay.
—	—	—	—	6·9	—	—	1·87	−1·76	0·62	7th	13	11	0	0	0	0	4	14	2	11	2	18	9	3	6	18	15	6	9	18	0	Colmonell.
1·26	—	13	—	7·1	—	5·6	1·85	−1·41	0·37	7th	15	10	0	0	0	0	1	11	2	12	1	10	0	16	9	2	7	11	27	9	3	Dumfries.
—	—	—	—	—	—	—	2·06	−2·06	0·57	3rd	14	10	0	0	0	0	—	—	5	—	1	14	0	2	18	4	17	4	16	0	23	Cally.
2·05	−0·41	22	− 4	8·9	—	7·3	1·71	−1·48	0·40	9th	13	11	1	0	1	0	0	16	5	2	1	23	2	2	3	15	16	10	14	16	6	Douglas.
1·95	−0·37	20	− 4	8·0	7·1	6·8	1·15	−0·91	0·19	6, 7	13	9	0	0	1	0	1	14	4	15	3	49	4	2	9	15	16	11	12	9	6	Southport.
1·25	—	13	—	6·3	—	5·5	1·40	−0·80	0·32	9th	13	10	1	0	2	0	0	3	5	5	0	9	0	9	7	5	12	12	13	14	12	Manchester.
1·39	—	14	—	7·5	6·6	7·1	1·25	—	0·30	9th	12	9	0	0	0	0	2	12	3	17	1	28	16	1	10	13	6	20	9	5	4	Whitwth Pk.
1·93	—	20	—	8·4	—	7·8	2·30	—	0·33	4th	14	11	2	0	2	1	0	15	4	13	1	39	0	2	13	3	8	27	10	16	5	Darwen
1·95	—	20	—	7·4	—	6·0	2·72	—	0·75	10th	14	12	0	0	0	1	4	13	4	17	1	14	13	8	2	3	13	25	12	2	6	Egremont.
1·82	—	19	—	8·0	—	6·9	2·72	+0·47	0·49	3rd	14	11	0	0	1	0	1	13	2	12	1	14	15	9	3	9	1	14	25	5	3	Aspatria.
1·99	−0·15	21	− 1	6·9	—	5·2	2·35	−0·56	0·70	7th	15	10	1	0	0	0	4	9	4	26	3	17	7	6	5	12	12	13	15	12	2	N'wt'n Rigg.
1·79	−0·28	19	− 3	6·9	—	7·2	1·89	−1·29	0·35	6th	13	11	0	0	1	0	3	14	2	17	0	16	23	3	9	9	2	15	12	9	2	Stonyhurst.
2·09	−0·16	22	− 1	7·8	—	7·4	1·48	−0·73	0·33	6th	11	10	0	0	0	1	1	17	2	17	1	42	3	3	7	15	21	8	13	8	6	Blackpool.
1·83	—	19	—	7·1	—	7·4	0·58	−1·15	0·21	9th	12	5	1	0	1	0	2	14	3	—	1	20	1	2	9	16	21	6	13	11	5	Liverpool.
2·21	−0·29	23	− 3	7·4	—	8·2	0·76	−1·31	0·18	9th	9	5	0	0	0	0	2	19	1	—	1	23	2	6	0	25	0	16	9	24	2	Llandudno.
—	—	—	—	6·6	7·7	6·7	1·68	−0·74	0·37	9th	12	9	0	—	0	0	1	7	5	—	3	53	3	3	2	15	5	22	23	7	4	Holyhead.
2·86	—	30	—	7·0	—	7·0	3·68	—	0·87	8th	11	11	1	0	2	0	0	12	1	14	6	6	0	8	22	0	3	11	19	12	9	Bettws.
2·91	—	30	—	5·8	—	5·3	1·62	—	0·45	9th	9	9	0	0	1	1	9	11	4	13	5	24	34	0	4	5	0	15	19	2	5	Dwyran.
2·31	—	24	—	8·4	—	—	2·84	—	0·74	7th	13	11	0	0	1	0	3	20	3	17	0	24	24	0	0	21	3	12	9	12	3	Llangamch.
2·19	−0·49	22	− 5	6·9	6·0	5·0	1·97	−0·67	0·55	7th	9	8	0	—	0	0	2	3	3	—	4	38	2	5	14	11	14	14	13	7	4	Pembroke.
—	—	—	—	6·1	6·1	5·4	1·20	—	0·42	7th	12	6	0	—	1	0	0	4	3	—	2	50	0	4	21	11	12	6	16	9	5	Portl'nd Bill
3·16	+0·41	32	+ 4	7·0	6·6	5·1	1·35	−1·44	0·32	7th	12	7	0	0	0	0	4	12	3	13	0	14	5	7	16	9	17	9	8	6	7	Plymouth.
2·92	−0·04	30	0	6·5	5·9	5·9	1·65	−2·08	0·40	7, 8	8	7	0	0	0	0	3	8	2	—	0	27	13	9	15	3	8	16	12	6	2	Falmouth.
2·39	—	25	—	—	—	—	1·46	−1·68	0.50	7th	13	7	0	0	0	0	—	—	4	17	—	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
3·34	+0·52	34	+ 6	6·9	—	6·6	1·14	−1·65	0·30	1st	10	8	0	—	1	0	3	13	7	—	1	29	3	6	12	11	19	9	9	8	7	Newquay.
3·13	+0·31	32	+ 3	6·7	—	3·5	1·01	−1·42	0·27	1st	10	8	0	0	0	0	4	8	4	—	0	54	4	0	27	8	13	8	15	6	3	Woolac'mbe.
—	—	—	—	7·4	6·6	—	4·12	—	1·52	7th	11	10	1	1	1	0	4	16	11	—	0	47	0	0	25	6	9	8	16	12	8	Princetown.
—	—	—	—	5·4	5·7	4·1	2·88	—	0·88	7th	10	9	4	2	0	0	6	8	5	—	3	43	14	0	16	13	6	9	13	5	8	Sheepstor.
2·41	—	24	—	6·3	5·3	4·8	1·10	—	0·32	7th	7	7	0	0	1	0	4	6	3	10	1	43	0	3	7	14	13	8	15	19	5	Teignmouth
—	—	—	—	7·0	6·6	6·8	1·43	−0·69	0·29	4th	15	11	1	—	2	0	0	2	0	—	6	43	0	2	2	7	10	22	25	10	6	Malin Head.
—	—	—	—	8·8	9·5	9·3	3·86	+0·30	0·61	5th	15	14	0	—	1	0	0	24	4	—	4	42	3	1	12	3	9	31	12	9	4	Blacksod Pt.
1·73	−0·48	18	− 5	7·6	—	6·4	2·23	−0·74	0·45	7th	12	12	2	1	1	1	4	14	4	15	1	9	42	0	3	0	15	12	6	3	3	Markree Cas.
—	—	—	—	6·7	6·8	6·6	1·22	−1·03	0·39	7th	12	10	1	—	0	0	0	7	7	—	2	20	1	2	11	7	10	27	16	5	5	Donaghadee.
1·71	−0·47	18	− 5	8·7	—	7·7	1·01	−1·13	0·18	7th	11	10	0	0	0	0	1	20	3	6	0	19	27	1	2	4	6	19	21	4	0	Armagh.
—	—	—	—	—	—	—	1·38	−0·93	0·35	7th	15	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	6·4	—	5·3	1·78	—	0·37	6th	13	11	1	1	2	1	5	8	3	—	3	18	3	0	5	11	22	16	12	9	6	Newtown-forbes.
1·36	—	14	—	8·7	—	5·1	0·52	—	0·13	24th	10	5	0	0	0	0	2	12	8	16	0	3	13	0	0	22	11	3	5	28	2	Dublin T. C.
1·61	−0·93	17	− 9	7·8	—	5·9	0·72	−1·17	0·14	25th	12	8	0	1	0	0	1	13	1	16	0	19	19	1	4	12	11	7	18	11	1	Phœnix Pk.
—	—	—	—	7·5	—	4·8	0·60	−1·41	0·15	24th	12	5	1	1	1	0	3	7	6	1	1	20	8	2	6	16	6	9	15	16	6	Dublin (City).
2·18	—	22	—	8·7	7·4	7·4	1·26	−0·88	0·25	1st	13	4	1	—	0	2	0	9	3	18	1	20	3	3	12	2	16	25	15	5	3	Birr Castle.
2·27	−0·30	23	− 3	7·4	6·9	6·6	3·88	−1·07	1·00	23rd	14	12	1	0	1	0	3	13	0	—	1	31	10	2	9	9	13	23	10	6	2	Valencia.
—	—	—	—	7·9	8·1	7·5	2·05	−2·03	0·57	24th	18	11	0	—	0	0	1	13	6	—	2	24	0	8	14	8	9	15	13	11	6	Roche's Pt.
1·94	—	20	—	8·7	7·6	5·4	1·30	—	0·33	1st	15	10	1	0	0	1	1	12	7	16	5	23	16	0	11	5	10	20	13	5	4	Limerick.
2·68	−0·39	27	− 4	6·8	7·2	6·4	1·05	1·61	0·33	7th	13	7	0	—	0	0	0	5	3	—	4	45	0	4	12	14	19	14	7	10	4	Scilly.
3·89	+0·60	39	+ 6	6·8	6·8	5·6	0·91	−1·57	0·45	1st	7	4	2	—	1	0	2	10	3	—	1	40	0	3	17	21	13	11	12	5	2	Jersey.
3·41	+3·04	34	+ 4	7·2	—	5·3	1·20	−1·57	0·40	7th	12	5	2	0	1	0	5	9	5	3	3	45	1	5	22	8	12	13	8	9	6	Guernsey.
—	—	—	—	5·8	7·1	4·3	4·47	—	1·54	5th	12	11	0	0	0	2	3	6	0	0	2	30	3	0	0	43	4	0	2	20	12	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, FEBRUARY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
	Ft.	°	°	°		°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																									
p Baltasound ... S	31	42·9	35·3	39·1	—	48	11th	29	21, 22	38·3	—	30·2	—	0·66	7th	25	6	3	1	3	0	0·99	—	11	—
p Dunrossness	161	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Fortrose	69	44·6	35·9	40·3	—	50	11th	30	22nd	—	—	1·45	—	0·53	5th	11	1	0	0	1	—	1·63	—	18	—
1. SCOTLAND, E.																									
a Crathes ... ... S §	140	46·4	33·4	39·9	—	58	25th	26	19th	36·3	37·8	0·88	—	0·50	7th	9	1	1	—	—	—	2·07	—	22	—
p Stonehaven	86	46·6	34·8	40·7	—	53	4th	28	19th	—	—	0·79	—	0·19	5th	10	—	—	—	—	—	2·13	—	23	—
p Balruddery ... S §	276	45·1	33·1	39·1	—	53	12th	28	20th	—	—	0·82	—	0·17	4th	10	0	0	0	0	—	1·63	—	18	—
a Carnoustie	39	45·0	34·7	39·9	—	57	3rd	30	14,20,23	—	—	0·79	—	0·16	4th	13	0	0	0	0	—	1·70	—	18	—
a St. Andrews	20	45·2	34·6	39·9	—	52	12th	27	23rd	37·6	39·8	0·86	—	0·19	6th	10	0	0	0	0	20	1·56	—	17	—
2. ENGLAND, N.E.																									
a Alnwick Castle ... ¶	210	46·1	34·2	40·2	+ 1·8	57	11, 12	25	23rd	—	—	0·86	−1·29	0·24	7th	14	—	—	—	—	—	—	—	—	—
a Bellingham	848	43·6	32·0	37·8	—	53	11th	25	22nd	—	—	1·75	—	0·39	7th	20	2	0	0	7	—	—	—	—	—
a Tynemouth	90	45·5	36·2	40·9	—	54	11th	28	23rd	39·0	41·3	0·48	—	0·10	6, 9, 14	8	2	0	0	4	13	1·65	—	17	—
a Chopwellwood	445	45·4	32·3	38·9	—	59	11th	24	22, 23	—	—	0·75	—	0·21	7th	14	0	0	0	2	22	2·28	—	24	—
a Ushaw	599	44·8	33·2	39·0	—	55	12th	24	23rd	—	—	0·67	—	0·27	7th	10	1	0	0	0	—	—	—	—	—
a Ampleforth	349	45·4	33·6	39·5	—	52	11th	26	23rd	—	—	0·82	—	0·30	7th	14	1	1	0	6	—	—	—	—	—
a West Witton	605	45·2	33·2	39·2	—	54	13th	24	22nd	37·8	39·4	1·81	—	0·68	7th	12	6	1	0	5	16	—	—	—	—
a Fulbeck ... ... ¶	180	45·1	32·8	39·0	+ 0·6	55	9th	25	13,14,23	—	—	0·79	−0·81	0·29	9th	13	—	—	—	—	22	—	—	—	—
a Rauceby ... ... §	124	45·4	32·7	39·1	—	55	9th	20	23rd	39·6	42·7	0·67	−1·28	0·31	9th	10	0	0	0	3	19	2·16	—	22	—
3. ENGLAND, E.																									
a Norwich	93	46·7	35·1	40·9	—	55	9th	27	23rd	38·8	—	0·84	—	0·29	1st	12	1	0	0	3	20	28·8	—	30	—
a Peterborough (Eye) ...	16	46·5	32·9	39·7	—	57	9th	23	23rd	—	—	0·48	—	0·20	9th	14	0	0	0	6	—	—	—	—	—
a Ridgewell	269	45·8	33·7	39·8	—	52	4, 7, 11	27	12, 23	—	—	0·61	—	0·19	9th	10	2	1	0	4	—	—	—	—	—
a Felixstowe	10	45·2	36·3	40·8	+ 1·5	52	3, 4, 27	30	12th	—	—	0·52	—	0·17	1st	11	0	0	0	3	—	3·21	—	33	—
a Walton-on-Naze	68	46·1	36·2	41·2	—	52	4, 5	30	12th	—	—	0·56	—	0·17	1st	9	—	—	—	—	18	2·78	—	29	—
a Halstead	139	46·9	33·8	40·4	—	56	11th	26	23, 24	—	—	0·62	—	0·20	1st	6	1	0	0	0	—	—	—	—	—
a Chelmsford	134	46·5	33·4	40·0	—	55	4th	25	23rd	—	—	0·67	—	0·19	1st	8	0	1	0	3	—	—	—	—	—
p Hemel Hempstead ...	535	45·2	33·3	39·3	—	58	11th	24	23rd	—	—	1·03	—	0·25	7th	15	0	0	0	4	20	—	—	—	—
a Rothamsted ... ¶§	424	46·4	33·6	40·0	+ 1·6	56	4, 11	25	23rd	—	—	0·88	−1·01	0·26	7th	18	—	—	—	—	—	2·05	−0·38	21	− 4
a Shoeburyness	13	45·8	36·1	41·0	+ 1·2	54	4th	27	14th	—	—	0·57	−0·62	0·24	1st	8	0	0	0	4	0	—	—	—	—
a Southend	90	45·8	36·6	41·2	—	54	26th	29	14th	41·3	—	0·56	−0·84	0·19	1st	9	—	—	—	—	22	2·64	—	27	—
4. MIDLAND COUNTIES.																									
a Harrogate ... ... ¶§	476	45·0	33·6	39·2	+ 1·5	53	13th	24	23rd	38·5	40·3	0·98	−1·09	0·27	7th	14	—	—	—	—	18	1·58	—	17	—
a Bradford	439	44·9	34·2	39·6	—	53	13th	28	24, 25	37·6	40·9	1·27	—	0·41	7th	13	0	0	0	8	15	1·46	—	15	—
a Meltham	513	46·3	33·7	40·0	—	56	11th	26	22nd	37·8	—	1·79	—	0·34	7th	15	0	0	0	2	21	—	—	—	—
a Cheadle ... ... ¶	646	45·1	34·1	39·6	+ 1·9	53	12th	27	22nd	—	—	0·97	−1·27	0·36	9th	8	—	—	—	—	20	—	—	—	—
a Wellington	207	47·6	32·8	40·2	—	55	11th	23	13th	—	—	0·98	—	0·35	9th	9	0	0	0	3	—	—	—	—	—
a Bawtry ... ... ¶	65	46·8	33·1	40·0	+ 1·0	54	4, 9, 10	25	23rd	—	—	0·62	−0·93	0·19	9th	13	—	—	—	—	—	—	—	—	—
a Matlock	636	45·9	32·6	39·3	—	59	13th	26	13th	—	—	1·50	—	0·44	7th	15	0	0	0	7	—	1·76	—	18	—
a Belper	222	46·4	31·9	39·2	—	58	13th	19	23rd	—	—	0·63	—	0·13	2nd	10	0	0	0	1	?	—	—	—	—
a Belper (Quarry Bank) ...	280	46·3	33·1	39·7	—	57	13th	22	22nd	—	—	1·01	−1·31	0·36	9th	12	0	0	0	3	—	—	—	—	—
a Mayfield (Staffs)	374	45·6	30·9	38·3	—	54	9, 13	19	23rd	—	—	1·06	—	0·37	9th	11	2	0	0	3	19	2·29	—	24	—
a Strelley	377	46·4	32·9	39·7	+ 1·6	56	9th	26	23rd	38·9	—	0·89	−0·87	0·37	9th	12	0	0	0	4	—	1·45	−0·51	15	− 5
a Kingston-on-Soar... ...	125	46·0	33·0	39·5	—	56	9th	22	23rd	39·2	—	0·77	—	0·32	9th	11	0	0	0	4	—	—	—	—	—
a Sparkhill	425	47·3	32·1	39·7	—	57	9, 11, 13	23	23, 24	—	—	0·99	—	0·33	9th	12	0	0	0	5	19	—	—	—	—
p Rugby	379	46·2	32·1	39·2	+ 0·7	57	11th	25	23rd	—	—	0·77	—	0·20	8th	9	0	0	0	2	19	—	—	—	—
a Raunds ... ... ¶	204	46·7	32·4	39·6	+ 0·1	56	9th	22	23rd	39·2	43·8	0·66	—	0·26	9th	8	0	0	0	5	18	2·27	—	23	—
a Malvern	520	45·3	34·4	39·9	—	54	9th	27	23rd	—	—	1·07	—	0·33	9th	11	—	—	—	—	—	2·74	—	28	—
a Ross...	214	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Hereford ... ... ¶	291	45·9	32·9	39·4	− 0·3	57	9th	23	14th	—	—	1·39	−0·63	0·38	7th	13	0	0	0	1	16	—	—	—	—
a Leamington	165	46·2	33·8	40·0	—	56	9th	25	23rd	39·3	47·2	0·88	—	0·36	9th	10	0	0	0	2	?	1·93	—	20	—
a Cirencester... ... ¶§	446	45·1	31·8	38·5	+ 0·1	53	9, 12	23	14th	40·1	42·9	1·60	−0·67	0·38	7th	14	—	—	—	—	15	2·36	−0·21	24	− 2
a High Wycombe	249	46·0	34·4	40·2	—	56	11th	27	23rd	—	—	0·89	—	0·21	9th	10	2	0	0	2	—	—	—	—	—
5. ENGLAND, S.E.																									
a Malmesbury	235	46·0	33·6	39·8	—	54	9th	24	23rd	—	—	1·28	—	0·30	7th	11	0	0	0	1	16	—	—	—	—
a Wokingham	216	46·1	31·6	38·9	—	56	11th	20	23rd	—	—	0·67	—	0·19	1st	8	2	0	0	6	—	—	—	—	—
a Marlborough ... ¶§	424	45·6	33·7	39·7	+ 0·8	54	12th	25	22nd	—	45·9	1·20	−1·16	0·31	7th	13	1	—	—	3	19	2·06	−0·05	21	0
a Bucklebury	409	45·4	33·4	39·4	—	56	11th	25	23rd	—	—	1·19	—	0·33	7th	9	0	0	0	7	23	—	—	—	—
a New Malden	39	46·6	34·9	40·8	—	55	4th	24	23rd	40·1	43·3	0·84	—	0·20	1st	9	1	1	0	4	17	1·71	—	18	—
a Croydon (Addington) ...	472	45·0	35·4	40·2	—	54	11th	28	19th	—	—	0·86	—	0·25	1st	10	1	0	0	5	—	—	—	—	—
a Wallington	144	46·4	35·4	40·9	—	55	11th	28	12,14,23	40·2	42·8	0·83	—	0·23	1st	13	2	0	0	6	13	—	—	—	—
a Woking	180	46·6	34·5	40·6	—	58	11th	25	23rd	40·0	—	1·00	—	0·24	7th	12	—	—	—	—	12	—	—	—	—
a Swarraton ... ... ¶	310	45·6	34·2	39·9	+ 1·1	54	4th	25	23rd	—	—	1·22	−1·19	0·41	7th	13	0	0	0	5	—	—	—	—	—
a Margate ... ... ¶§	35	46·0	38·9	42·5	+ 2·5	52	3, 4, 7	31	19th	43·1	45·9	0·42	−0·96	0·23	2nd	5	0	1	0	2	5	2·71	+0·17	28	+ 2
a Aldershot	231	45·3	34·4	39·9	—	54	4th	26	23rd	—	—	1·08	—	0·30	1st	15	1	0	0	5	—	—	—	—	—
a Wisley ... ... ¶§	150	46·1	35·3	40·7	+ 1·5	55	11th	25	23rd	40·3	43·5	0·75	—	0·21	1st	10	1	0	0	5	17	1·75	—	18	—
a Basingstoke	289	45·7	34·8	40·3	—	54	4, 10	23	23rd	40·5	43·7	1·10	—	0·35	7th	12	2	0	0	5	14	—	—	—	—
a Sevenoaks	509	45·0	35·1	40·1	—	57	11th	27	19th	39·7	43·4	0·97	—	0·33	1st	11	1	1	0	2	18	—	—	—	—
a Tunbridge Wells ... ¶§	419	45·2	34·5	39·9	+ 1·0	54	11th	26	23rd	39·8	—	1·13	−1·01	0·32	7th	11	1	0	0	6	18	3·11	+0·68	32	+ 8
a Matfield	319	45·8	34·6	40·2	—	57	11th	24	23rd	—	—	1·04	—	0·29	7th	10	1	0	0	1	18	—	—	—	—
p Folkestone...	121	46·1	39·0	42·6	—	52	11th	31	19th	—	45·3	0·88	−1·05	0·35	2nd	8	0	0	0	0	—	3·17	—	32	—
v Bexhill	27	46·4	39·0	42·7	—	54	11th	31	14, 19	44·3	—	0·94	—	0·41	1st	9	1	0	0	2	8	3·05	—	31	—
a Worthing ... ... §	36	46·6	37·8	42·2	+ 2·2	56	27th	29	19th	41·9	45·5	1·29	−0·70	0·42	1st	10	0	0	0	0	12	3·50	—	36	—
a Bognor	20	46·0	38·4	42·2	—	53	27th	29	19th	—	46·8	1·19	—	0·41	1st	10	1	0	0	1	—	3·55	—	36	—
a Selsey Bill	21	46·6	37·6	42·1	—	56	27th	29	19th	—	—	1·08	—	0·31	1st	10	1	0	0	4	10	3·31	—	34	—
a Totland Bay	140	45·9	37·9	41·9	+ 1·5	53	27th	30	19th	—	—	1·35	−0·72	0·46	1st	11	0	0	0	2	9	3·02	—	31	—
a Sandown	20	47·2	38·8	43·0	—	55	4, 27	30	19th	—	—	1·25	—	0·33	1st	13	0	0	0	6	—	3·14	—	32	—
p Bournemouth	145	47·1	37·0	42·1	—	53	4th	29	21st	41·5	43·8	1·81	—	0·44	1st	14	—	—	—	—	—	3·12	—	32	—

1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in February based on 35 years' observations, 1871-1905.

29·75 29·80 29·00 29·05 29·10 29·80 29·15 29·85 29·20 29·25 29·90 29·30 29·95 30·00 HIGH

WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT 10 MODERATE 10 STRONG 10 ← 30 Obsns. = 1 Inch →

2. MOVEMENTS OF DEPRESSIONS.

3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

SCALE OF TINTS 44° 42° 40°

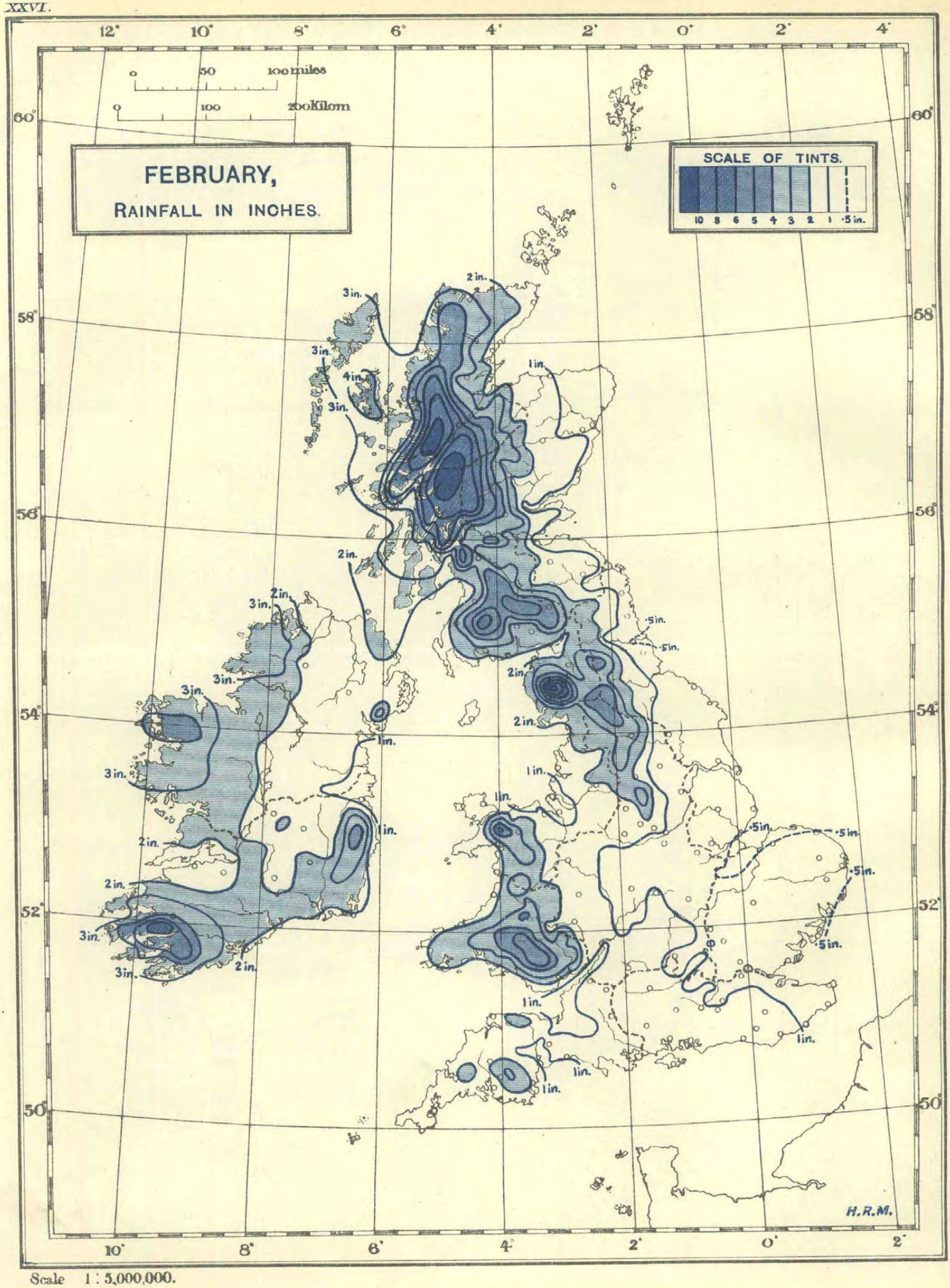
40° 41° 42° 43° 44° 46° 47° 48° 45°

Sea temperatures are shown in large figures thus 42°

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS 3 2 1 Hrs.

1½ 2 2½ 3 3½



Scale 1 : 5,000,000.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, FEBRUARY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	46·0	33·2	39·6	—	56	4th	23	23rd	—	42·7	0·84	—	0·17	1st	13	2	0	0	6	—	1·74	—	18	—
a Golders Green	?280	45·7	35·3	40·5	—	55	4th	26	23rd	—	—	0·76	—	0·21	1st	9	1	1	0	5	?13	—	—	—	—
p Hampstead (Redington Rd.)	375	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon	51	47·7	35·5	41·6	—	56	4, 11	24	23rd	—	—	0·86	—	0·25	1st	9	2	0	0	5	14	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	46·1	36·4	41·3	—	50	27th	28	19th	—	—	5·00	—	1·02	2nd	16	2	0	0	1	6	1·26	—	14	—
a Ardnadam	64	44·5	35·7	40·1	—	51	27th	28	21st	—	—	7·53	—	1·57	2nd	16	1	1	1	4	14	—	—	—	—
a Thorntonhall (Lanarkshire)	440	43·8	34·3	39·1	—	49	7th	26	17, 21	—	—	3·64	—	0·85	3rd	13	0	0	0	2	12	1·24	—	13	—
a Kilmarnock ¶	90	45·6	35·5	40·6	+ 1·3	51	7th	26	21st	—	—	1·92	—	0·28	3rd	16	0	2	0	2	—	1·41	—	15	—
p Ruthwell §	67	45·4	34·8	40·1	—	50	9, 24, 25	26	23rd	—	—	2·45	—	0·44	3rd	12	0	0	0	0	—	1·38	—	15	—
7. ENGLAND, N.W.																									
a Scaleby	111	46·5	34·9	40·7	—	53	25th	26	22nd	—	—	1·76	—	0·67	3rd	17	1	0	0	5	—	—	—	—	—
a Seathwaite	422	46·0	34·3	40·2	—	53	11th	22	14th	—	—	10·52	—	3·25	3rd	14	0	2	1	2	—	—	—	—	—
a Carnforth	174	45·9	34·4	40·2	—	53	25th	26	13, 23	—	—	2·43	—	0·69	10th	14	1	1	0	3	13	1·69	—	18	—
a Lancaster	311	45·9	35·8	40·9	—	52	25th	28	13, 14, 19	40·6	44·4	2·28	—	0·60	10th	14	0	0	0	2	24	1·71	—	18	—
a Hutton	81	46·2	34·4	40·3	—	54	7, 11	26	13, 14	40·2	42·5	1·27	—	0·28	6th	11	0	0	0	3	16	1·82	—	19	—
a Burnley	459	45·2	34·6	39·9	—	54	11, 12	26	28th	38·2	41·0	2·13	—	0·52	7th	11	—	—	—	—	15	1·81	—	19	—
a Leyland	124	46·0	34·3	40·2	—	54	11th	25	13th	—	—	1·29	—	0·22	8th	10	2	1	0	5	10	1·55	—	16	—
a Bolton	341	45·9	35·6	40·8	—	53	11th	30	23rd	38·7	40·9	1·61	—	0·25	9th	14	1	0	0	3	14	0·96	—	10	—
a Blundellsands	34	46·3	36·9	41·4	—	54	7, 10	29	19th	—	—	0·80	—	0·19	9th	13	0	0	0	3	7	—	—	—	—
a Hoylake §	30	47·6	35·9	41·8	—	56	7th	29	13, 19	—	—	0·63	—	0·23	9th	11	—	—	—	2	9	1·33	—	14	—
a Rhyl	30	47·7	35·7	41·7	—	55	7, 11	29	13, 17	—	—	0·77	−0·73	0·29	7th	10	—	—	—	—	10	2·11	—	22	—
a Colwyn Bay	82	48·2	37·6	42·9	—	55	10th	30	18th	—	—	0·98	—	0·50	7th	9	0	0	0	0	—	2·51	—	26	—
a Llanberis (Pen-y-gwryd)	913	44·5	33·9	39·2	—	54	12th	23	14th	—	—	9·69	—	2·18	8th	13	0	1	1	3	—	—	—	—	—
a Macclesfield	500	46·0	34·4	40·2	—	56	11th	28	21, 28	—	—	1·27	—	0·40	9th	12	0	0	0	3	—	—	—	—	—
a Northwich	117	47·0	35·1	41·1	—	56	11th	28	13, 23	—	—	1·36	—	0·44	9th	14	0	1	0	5	—	—	—	—	—
a Hawarden Bridge ¶	22	47·9	35·8	41·9	+ 1·1	56	7th	28	13, 14	—	—	0·77	−0·66	0·20	7, 9	10	—	—	—	—	—	—	—	—	—
a Ruthin	449	47·0	35·9	41·5	—	60	11, 12	28	14th	—	—	1·08	—	0·30	7th	11	0	0	0	0	—	—	—	—	—
a St. Asaph	479	46·3	35·5	40·9	—	59	11th	28	19th	—	—	0·69	—	0·21	7th	11	0	0	0	3	19	—	—	—	—
a Welshpool	255	47·8	34·5	41·2	—	57	13th	27	28th	—	—	1·39	—	0·39	9th	14	1	1	0	5	—	—	—	—	—
p Aberdovey §	22	47·6	39·1	43·4	—	56	11th	30	14th	—	—	1·57	—	0·38	9th	10	0	0	0	0	—	2·63	—	27	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	47·3	38·0	42·7	—	55	25th	30	14, 21	—	—	1·28	—	0·30	9th	9	0	1	0	1	—	2·60	—	27	—
a Gwernyfed	374	47·5	31·9	39·7	—	50	13th	20	14th	—	—	1·31	—	0·35	2nd	14	0	0	0	1	—	—	—	—	—
a Haverfordwest	93	47·2	36·0	41·6	—	54	6, 7	20	13th	—	—	2·46	—	0·55	9th	11	0	0	0	5	—	2·78	—	28	—
a Swansea	24	47·6	36·3	42·0	—	55	9, 12	29	21st	42·0	46·9	1·99	—	0·36	8th	9	0	0	0	3	17	2·51	—	26	—
a Clifton ¶	229	46·6	35·9	41·3	+ 0·8	54	9, 10, 25	29	14, 15, 19	—	—	0·99	−1·48	0·18	2nd	13	0	0	0	4	12	2·03	—	21	—
a Weston-Super-Mare	29	46·6	36·2	41·4	—	54	10, 25	28	22nd	—	—	0·63	—	0·20	1st	9	0	0	0	4	17	2·38	—	24	—
a Minehead	104	46·9	36·4	41·7	—	58	10th	29	22nd	—	—	1·52	—	0·60	7th	8	0	0	0	3	18	1·91	—	20	—
a Ilfracombe	24	48·4	38·7	43·6	—	57	10th	28	19, 20	43·3	47·4	1·31	—	0·36	7th	9	0	1	1	5	4	2·66	—	27	—
a Arlington ¶	613	46·0	34·1	40·1	− 0·5	57	12th	25	14th	—	—	1·44	−2·52	0·39	7th	9	0	0	0	0	—	—	—	—	—
a Cullompton ¶§	202	47·8	34·8	41·3	+ 0·2	56	4th	26	14, 22	42·9	—	0·95	−1·87	0·22	1st	17	1	0	0	5	17	2·58	+0·12	26	+ 1
a Rousdon	515	45·6	35·9	40·8	+ 0·8	53	12th	27	19th	41·9	43·9	0·93	−1·39	0·29	7th	10	2	2	0	9	13	3·24	—	33	—
a Sidmouth	147	47·3	37·5	42·4	—	53	4, 12, 27	28	14th	—	—	1·34	—	0·43	7th	12	0	0	0	2	?17	—	—	—	—
a Killerton	160	48·5	30·9	39·7	—	55	8, 9, 12	23	12, 21	—	—	0·67	—	0·25	7th	8	0	2	0	5	18	—	—	—	—
a Shaftesbury ¶	722	44·7	33·0	38·9	+ 0·5	54	12th	25	19th	40·3	43·6	0·79	−1·67	0·19	1st	12	0	0	0	0	—	—	—	—	—
a Dorchester	314	46·8	35·7	41·3	—	53	4, 7	28	19, 21	—	—	1·80	—	0·44	7th	11	0	0	0	3	—	3·40	—	35	—
a Weymouth	21	47·3	38·1	42·7	—	54	4th	30	19th	—	—	1·46	—	0·30	7th	10	0	0	0	1	—	3·11	—	32	—
a Torquay	12	48·5	39·3	43·9	—	55	4, 27	30	14th	—	—	1·44	—	0·55	7th	8	0	0	0	1	6	2·84	+0·16	29	+ 2
p Paignton	11	48·1	37·3	42·7	—	55	4th	27	12, 14	—	—	1·48	—	0·49	7th	8	0	0	0	3	11	2·47	—	25	—
a Salcombe	300	47·4	38·3	42·9	—	53	4, 8, 27	27	14th	—	—	1·26	—	0·35	7th	8	0	0	0	3	—	2·96	—	30	—
a Tavistock	374	47·5	36·0	41·8	—	57	12th	26	14th	—	—	2·01	—	0·71	7th	12	1	2	0	5	17	—	—	—	—
a Ashburton	583	47·0	36·4	41·7	—	57	12th	28	20, 21	—	—	2·93	—	1·15	7th	11	—	—	—	—	—	—	—	—	—
a Fowey	51	49·2	39·1	44·2	—	58	4th	29	20th	—	—	1·06	—	0·32	7th	8	0	0	0	4	—	3·14	—	32	—
a Redruth	397	46·5	37·7	42·1	—	52	4, 10, 25	27	20, 21	—	—	1·85	—	0·59	7th	11	0	1	0	7	—	—	—	—	—
a Penzance	54	49·2	40·5	44·9	—	55	4th	30	20, 21, 22	—	—	1·00	—	0·29	7th	10	0	0	0	2	—	3·41	—	34	—
9. IRELAND, N.																									
p Dunfanaghy	54	47·3	37·5	42·4	—	54	11th	32	1, 18, 19	—	—	3·66	—	0·63	1st	15	1	0	1	0	—	—	—	—	—
a Lisburn	207	48·3	34·5	41·4	—	56	27th	29	1st	—	—	1·46	—	0·32	7th	11	1	0	0	5	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	48·0	35·9	42·0	+ 0·8	57	7th	28	17th	—	—	0·59	−1·40	0·08	24th	14	1	0	0	6	21	—	—	—	—
a Kingstown	42	46·9	39·2	43·1	—	57	7th	31	14th	—	—	0·75	—	0·25	24th	11	—	—	—	—	—	1·47	—	15	—
p Clongowes Wood Col.	245	47·2	33·8	40·5	—	55	7th	25	22nd	—	—	1·39	—	0·31	25th	17	0	0	1	6	?12	2·21	—	23	—
a Mountmellick	239	46·6	34·5	40·6	—	54	8th	26	1st	—	—	1·56	—	0·30	7th	12	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	47·3	36·9	42·1	—	56	5th	28	20th	—	—	1·62	—	0·52	24th	12	1	0	0	1	—	—	—	—	—
a Kilkenny ¶	195	47·8	35·5	41·7	+ 0·1	55	7th	28	21st	—	—	1·44	−1·12	0·38	24th	17	0	0	0	1	0	—	—	—	—
a Cahir ¶	199	47·7	35·4	41·6	− 0·2	54	7th	27	27th	—	—	1·85	—	0·35	1st	12	1	0	0	7	—	—	—	—	—
a Wexford	99	47·1	38·9	43·0	—	52	7, 25, 27	33	1, 2	—	—	2·92	—	0·79	9th	11	0	0	0	3	—	—	—	—	—
a Waterford ¶	100	48·0	37·9	43·0	+ 1·0	53	7, 25, 27	30	19th	—	—	2·60	−0·78	0·53	24th	11	1	1	0	4	—	—	—	—	—
p Waterford Trg. Coll.	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Foynes ¶	108	48·9	37·4	43·2	+ 0·4	58	10th	30	17, 20	—	—	1·27	−1·74	0·34	1st	13	0	0	0	0	—	—	—	—	—
a Killarney ¶	174	50·3	38·1	44·2	+ 0·9	58	11th	26	19th	—	—	3·84	−1·15	0·80	6th	13	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	47·9	38·4	43·2	—	55	11th	31	19th	—	—	2·03	—	0·62	24th	10	2	0	0	5	—	1·48	—	15	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	49·1	41·4	45·3	+ 1·7	56	11th	32	18th	—	—	1·17	−1·60	0·34	7th	10	—	—	—	—	—	33·4	—	34	—

DISTRICT VALUES—FEBRUARY, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	53	20	44·5	35·2	39·9	+2·3	39·0	+1·1	—	—	4·29	−0·36	19	1·26	−0·73	14	− 8	8·0	7·6	6·6	30·61	12th	28·84	7th
Eastern.																								
1. SCOTLAND, EAST ...	58	23	44·7	33·3	39·0	+2·0	36·4	+1·0	38·7	+0·8	1·58	−0·62	15	1·72	−0·89	18	−10	7·5	7·0	6·6	30·65	12th	28·87	7th
2. ENGLAND, N.E. ...	59	20	45·8	34·5	40·2	+1·6	38·4	+1·5	41·2	+1·3	0·69	−0·78	13	2·10	−0·57	22	− 6	6·8	—	6·4	30·70	12th	29·20	7th
3. ENGLAND, EAST ...	58	22	46·2	35·4	40·8	+2·3	40·0	+2·0	43·4	+2·0	0·71	−0·77	11	2·49	−0·33	26	− 3	7·2	6·7	6·1	30·70	12th	29·43	1st
4. MIDLAND COUNTIES	59	19	46·2	33·8	40·0	+1·4	39·1	+1·5	42·2	+1·4	0·98	−0·85	12	1·90	−0·51	26	− 5	7·3	7·2	5·9	30·71	12th	29·54	7th
5. ENGLAND, S.E. ...	58	20	46·1	36·6	41·4	+1·5	41·2	+2·6	44·6	+2·9	0·97	−1·01	10	2·58	−0·10	26	− 1	7·3	6·8	6·0	30·72	12th	29·47	1st
Western.																								
6. SCOTLAND, WEST ...	52	18	45·5	36·4	41·0	+2·0	39·0	—	41·2	+0·2	2·38	−1·43	15	1·33	−0·87	14	− 9	8·2	—	7·2	30·64	12th	29·32	2nd
7. ENGLAND, N.W. ...	60	22	46·2	36·4	41·3	+1·8	39·7	+1·6	42·2	+1·3	1·72	−0·68	12	2·09	−0·30	22	− 3	7·2	7·1	6·8	30·67	12th	29·33	7th
8. ENGLAND, S.W. ...	61	19	46·7	36·3	41·5	+0·4	41·9	+1·2	45·0	+1·6	1·46	−1·57	12	2·73	+0·02	28	+ 1	6·8	6·0	5·1	30·66	12th	29·49	1st
9. IRELAND, NORTH ...	57	26	47·2	36·9	42·1	+1·6	41·3	+0·7	43·6	+0·4	1·84	−0·96	13	1·72	−0·68	18	− 7	7·7	7·6	7·1	30·66	12th	28·77	7th
10. IRELAND, SOUTH ...	58	25	48·2	37·6	42·9	+0·8	41·9	+1·0	44·0	+0·8	1·75	−1·48	14	1·98	−0·70	20	− 8	8·1	7·5	6·1	30·63	12th	29·16	7th
11. ENGLISH CHANNEL ...	60	32	48·9	40·8	44·8	+0·8	44·1	+1·8	46·6	+1·8	1·04	−1·57	10	3·30	0·00	33	0	6·9	7·0	5·8	30·67	12th	29·48	1, 25

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
	hr.		%	
5. ENGLAND, S.E.				
Ramsgate ...	2·94	—	30	—
Broadstairs ...	3·20	—	33	—
Littlestone§ ...	2·78	—	28	—
Hove	2·98	—	30	—
Westbourne ...	3·16	—	22	—
LONDON.				
Bunhill Row ...	1·11	0·0	11	0
Plumstead ...	1·69	—	17	—
8. ENGLAND, S.W.				
Tenby	2·37	−0·45	24	− 5
Port Talbot ...	2·74	—	28	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	0·71	—	0·31	29th	9
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	1·74	—	0·79	7th	11
Forest of Dean (900 ft.)	1·60	—	0·55	7th	10

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type. At other stations the calculations are made from the monthly means of the dry and wet bulb readings.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except in the cases of rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Wind Summaries.—The results given under wind direction, and the number of observations of calms and of fresh or strong wind, are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Glasgow, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. (At Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Notes in Monthly Weather Reports for 1908.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Oxford, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—The stations used in the Weekly Weather Report for the computation of "district values" of rainfall and temperature are distinguished by the sign ¶, those used for the computation of "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, duration of bright sunshine, number of rain days and amount of rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The extreme values of the various elements in each district are printed in distinctive type. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the case of the corresponding values published in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ≶ is supplied by the Scottish Meteorological Society. Stations marked § are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, March 27th, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. III. MARCH, 1913. [*Price 6d.*

ROUGH AND WET.

Pressure, Winds and Weather.—Throughout the month the distribution of atmospheric pressure round the British Isles was of a very unsettled type. During the first twenty-three days anticyclonic systems were in evidence along the middle belt of the Atlantic to the Spanish Peninsula, and thence across Southern Europe and the Mediterranean, the barometer standing between 30½ in. and 30¾ in. in various regions from the 3rd to the 13th. On some days the northern limit of the high pressure embraced a considerable portion of this country, and on the 9th, when the anticyclonic centre occupied the Bay of Biscay, the barometer rose above 30·5 in. over the southern counties of England, above 30·6 in. on the south coast, and touched 30·68 in. at Jersey, the highest home record for the month. All through this period of three weeks an extensive area of low pressure covered the northern half of the Atlantic, Scandinavia and Northern Russia. Within this basin numerous depressions wandered along very irregular paths, most of their centres passing to the northward or eastward in the vicinity of Iceland, a few, mainly secondaries to main systems out on the ocean, visiting these islands. As a rule these disturbances were very deep, the barometer often falling below 29 in., on several days below 28½ in. On the 4th, in the deepest cyclone of the month, there were readings below 28 in. over Iceland, down to 27·79 in. at Seydisfjord, on the east coast. Ten days later there was a reading of 28·3 in. off the south coast, at the Vestmanna Island. Of those which visited any part of the British Isles the deepest was a cyclone of great energy which appeared on the 17th in 52° N., 25° W., and advancing on an east-north-easterly course arrived over the Hebrides on the morning of the 19th, and subsequently passed on to Southern Scandinavia and Finland. All over Scotland the barometer sank below 28½ in., to 28·32 in. at Wick, and to 28·29 in. at Aberdeen. The period came to an end with the passage of a deep system moving on a due easterly path across the south of Scotland in the night of the 22nd, with the barometer below 29 in. It absorbed a secondary of even greater energy than itself, which had formed on the upper part of the Bay of Biscay on the morning of the 22nd, and moved up the Western Channels, causing a violent gale along the south coast.

As this disturbance travelled away on a north-easterly course across Scandinavia towards the White Sea, an area of high pressure began to move up from the neighbourhood of the Azores, and on the 25th its central space crossed this country, with the barometer just below of 30·4 in. The system then became established over Northern and Eastern Europe, and for the remainder of the month disturbances were confined to the western regions, mainly between Iceland, the Bay, Spain and Morocco. There was an interesting case of a very deep cyclone advancing due eastward to within 125 miles of the Kerry coast on the morning of the 28th, with the barometer below 28½ in. Apparently its progress was suddenly arrested by the eastern high pressure, and the evening reports showed that its centre had travelled due westward about 320 miles, then working northward past the west of Iceland to the Arctic Sea.

The mean pressure for the entire month was below the normal, by as much as ¼ in. along the north-western and northern coasts, the deficiency diminishing southward to less than 0·1 in. over Southern England. The results disclose a centre of minimum pressure off the south of Iceland, barometer 29·25 in., the values increasing thence to 29·50 in. in Shetland, 29·98 in. at Jersey, above 30·15 in. over South-Eastern Europe, and 30·29 in. at the Azores. While the general resultant gradient was of a South-Westerly type, the closing week had winds from between South and East.

The weather was frequently rough and boisterous, the force of the wind exceeding that of a strong breeze at one or more of the telegraphic reporting stations on 27 days, the strength of a gale (force 8) being attained on 25 days, and a strong gale (force 9) on 21 days.

The month opened with a strong Southerly gale along the north-west of Ireland. On the appearance of a very deep cyclone off the south-west of Iceland on the morning of the 4th, the conditions over these islands assumed a very stormy character, and remained so until the disappearance of the system beyond the north of Scandinavia on the evening of the 6th. On each of the three days a strong Southerly to Westerly gale was experienced on several sections of the northern, western and southern coasts, a whole gale (force 10) in Shetland, Donegal and Mayo. Severe squalls accompanied the gale; at Dwyran (Anglesey) a gust at the rate of 76 miles an hour was recorded on the 6th. The occurrence of a strong gale round the north of Scotland on the 9th and 10th was associated with the eastward translation of a deep system along the Arctic Circle.

The gales of the 15th to the 18th were due to two disturbances, one, of no great depth, moving eastward beyond the north of Scotland, and on the evening of the 16th throwing off a secondary over the Hebrides. This secondary struck off to the south-eastward, as far as Cambridge, then altered its course to the north-eastward, and became much deeper as it crossed the North Sea. Strong gales were felt on many coasts each day, a whole gale off Pembroke. Velocities on the 15th ranged up to 68 miles per hour at Scilly, and 75 at Pendennis; next day Pendennis had 69 miles per hour, and on the 17th 72. Hitherto the unsettled weather was marked by very few electrical disturbances, mainly in Scotland and Ireland, and large rainfalls were limited almost entirely to the more mountainous districts, a few exceeding 2 in. in a day, and on the 2nd Llanberis (Penygwryd) had 3 in. Hail and snow showers were, however, very common. On the 15th thunderstorms became more widely distributed, heavier rains fell in the low levels, and there was rather more snow locally. Fulbeck had 4 in. of snow on the 17th, and Fort William, as the result of a two days' fall, 12 in.

Several districts experienced a strong gale on the 19th and 20th, the wind at Dungeness rising to a storm (force 11), the velocities in squalls ranging up to 70 miles per hour at Holyhead on the 19th, and 68 miles per hour at Scilly next day. The rainfall was insignificant.

On the morning of the 22nd, when a large disturbance was beyond our north-western coasts, a small secondary was formed on the Bay of Biscay. As it moved northward it brought about a stormy night over Southern England, where the force of a whole gale was felt, squalls at the rate of 67 miles an hour being recorded at Shoeburyness and Kew Observatory. Worthing pier was destroyed, and there were numerous other casualties. Thunderstorms were pretty general over England, severe in several places. The day was the wettest of the month over the low level districts, with more than an inch of rain locally, at Aberdeen 1·3 in. in 12 hours.

Under the South-Easterly type of the remainder of the month the gales were much more moderate, and the weather all round was less rainy and thundery.

The temperature of the month, which was generally above the normal, and especially so over Eastern and South-Eastern England, was remarkable for its general uniformity. On the 7th an afternoon maximum of 61° was recorded at Bridlington, and on the 30th 60° at Lisburn, but as a rule there were few maxima above 55°. On the 17th Glencarron and Lerwick remained as low as 33°, otherwise day readings as low as 40° were unusually rare. The early morning of the 18th was marked by sharp frost over a wide area, the thermometer in the screen sinking to 20° at Fulbeck, Crieff and Marchmont, 19° at Bellingham, and 16° at West Linton. Most of the other frosts were very slight. Mild nights were as rare as cold days, the only minimum temperature as high as 50° being registered at Villa Carey, Guernsey, during the night of the 5th.

An earth tremor was felt at Isleworth, Middlesex, at about 5 p.m. on the 22nd. A thunderstorm was then in progress, and a line squall was passing across the neighbourhood from west to east, marked by a sudden and sharp rise of the barometer.

There was a decided falling off in the records of fog, both inland and on the coasts. They were noted at a few places round Ireland in the first ten days, and locally on the east coast of Britain in the last eight days, thick off Wick on the 30th, but along the English Channel there were hardly any references to fog.

As compared with the preceding month the temperature of the sea surface water round our shores showed no change at more than one-half of the points of observation, at the others it was 1° or 2° warmer or cooler. As a rule the water was rather warmer than the air on shore, by 2° or 3° in several localities.

Rainfall.—Precipitation was nearly everywhere in excess of the normal, considerably so over a large portion of the country, there being an entire absence of the keen, dry winds associated with the season. Glencarron returned 84 per cent. of its average, Margate 89, and Ventnor and Dunrobin 93 per cent., but a number of places had more than double the usual quantity, Coventry 238 per cent., Crieff 249, Birmingham 259, Church Stretton 267, and Hereford 320. Ridgewell (Essex) totalled 1·4 in., and Colchester, Ipswich and Sandwich 1·5 in., but there were about a score of stations in the hilly districts which received more than 10 in., up to 16·2 in. at Seathwaite, 18·1 in. at Loch Quoich, 19 in. at Llanberis (Penygwryd), and 19·3 in. at Copper Mill (Snowdon). At Kingstown and Cawdor rain was measured on 14 days, and at Dyce and Fortrose on 15 days, but generally the frequency exceeded 20 days, 27 or 28 in many places, 29 at Caragh Lake and Enniscoe.

Bright Sunshine.—The duration of bright sunshine was rather variable, Eastern Scotland, North-Western England and the North of Ireland returning an excess, other regions a deficit. Southampton, Torquay, Scilly and Pembroke had 78 per cent. of the normal, and Cullompton and York 80 per cent., while Llandudno had 115, Strathpeffer 116, and Markree Castle 117 per cent.

(29619—24.) Wt. 196—786. 1475. 4/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.		Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
			Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands	*a* Castlebay ...	7, I, 9	48	9·495	−·249	9·559	45·4	37·0	41·2	−0·4	50	9th	31	15th	—	—	42·3	43·6	42·2	2·4	2·7	2·1	·220	·226	·225	82	79	85
	p Deerness ... §	9, −, 9	163	9·338	—	9·513	43·5	35·9	39·7	+0·4	50	9th	30	17, 18	—	—	39·3	—	38·7	1·5	—	1·6	·213	—	·206	88	—	87
	a Lerwick ... ¶	7, I, 9	59	9·433	−·257	9·498	43·2	35·3	39·3	+0·7	49	25th	27	18th	—	—	39·0	40·9	39·8	1·9	2·5	2·0	·201	·206	·206	85	81	84
	a Stornoway... ¶§	7, I, 9	52	9·480	−·250	9·529	45·1	34·6	39·9	+0·2	53	30th	29	8, 16, 18	—	—	39·1	43·1	39·4	1·9	2·5	1·9	·202	·225	·205	85	81	85
Mainland	*a* Wick ... ¶	7, I, 9	94	9·429	−·252	9·534	43·9	33·6	38·8	−0·7	52	9th	27	18, 19	—	—	37·5	41·5	38·5	0·5	1·1	0·8	·214	·239	·217	95	91	93
	p Strathpeffer ¶§	9, −, 9	210	9·315	—	9·537	47·6	33·6	40·6	+1·5	57	29th	28	18th	—	—	40·1	—	38·8	2·3	—	2·1	·202	—	·196	81	—	84
	a Glencarron § ¶	9, −, 9	504	9·007	—	9·556	43·7	33·1	38·4	+0·1	53	29th	23	17th	—	—	39·9	—	37·7	2·4	—	2·1	·200	—	·187	81	—	82
	p Ft. Augustus § ¶§	9, −, 9	73	9·506	—	9·582	45·3	34·3	39·8	+0·1	56	29th	22	18th	—	—	39·4	—	39·1	1·5	—	1·5	·212	—	·209	88	—	88
	p Ft. William § ¶	9, −, 9	38	9·558	—	9·595	46·0	34·8	40·4	−0·2	57	29th	21	18th	—	—	39·7	—	39·3	2·7	—	2·4	·194	—	·196	80	—	81
	p Kingussie ... §	9, −, 9	828	8·688	—	9·593	42·8	31·2	37·0	—	53	29th	21	18th	—	—	36·7	—	36·1	2·4	—	1·9	·173	—	·178	80	—	83
	p Dunrobin ... §	9, −, 9	16	9·539	—	9·551	45·3	34·4	39·9	−0·4	53	4, 9	28	17, 18	40·5	—	40·1	—	38·9	2·3	—	2·3	·202	—	·193	81	—	83
1. SCOTLAND, E.																											
	a Nairn ... ¶§	7, I, 6	82	9·459	−·249	9·556	46·7	32·2	39·5	−0·3	56	26, 29	28	8, 16, 18	—	—	37·2	44·9	41·3	1·3	3·5	2·0	·196	·223	·219	88	75	84
	p Gordon Castle § ¶	9, −, 9	107	9·461	—	9·576	46·6	34·3	40·5	0·0	56	25, 29	28	17th	—	—	40·6	—	38·7	2·6	—	1·8	·201	—	·200	80	—	86
	Aberdeen ... ¶§	9, 3, 9	90	9·512	−·221	9·613	45·6	36·0	40·8	+0·7	52	4th	29	18th	—	40·1	40·2	44·3	40·2	2·8	4·7	2·6	·197	·201	·198	78	68	79
				9·511	−·225	9·609			40·5	+0·9																		
	a Balmoral ... § ¶	9, 3, −	927	8·586	—	9·601	44·5	30·8	37·7	—	50	25,29,31	18	8th	—	—	35·6	42·8	—	1·6	1·9	—	·178	·235	—	85	85	—
	p Braemar ... §	9, −, 9	1114	8·380	—	9·584	41·5	29·8	35·7	−0·6	55	30th	15	8th	—	—	35·7	—	35·0	1·6	—	1·4	·178	—	·176	85	—	85
	p Dundee ... §	9, −, 9	164	9·456	—	9·633	46·5	34·3	40·4	+0·4	54	31st	25	18th	—	—	39·2	—	39·1	1·4	—	1·1	·214	—	·218	89	—	91
	p Crieff ... § ¶	9, −, 9	436	9·152	—	9·640	45·5	32·5	39·0	−1·1	57	30, 31	20	18th	—	—	38·6	—	38·6	1·9	—	1·9	·195	—	·198	85	—	85
	a Leith ... ¶	7, −, 6	37	9·601	−·203	9·645	47·7	35·4	41·6	+0·2	55	31st	27	18, 19	—	—	39·6	—	43·2	2·3	—	3·7	·199	—	·204	81	—	74
	p West Linton S ¶	9, 3, 9	805	8·783	—	9·667	44·0	31·1	37·6	−1·1	52	31st	16	18th	—	—	37·6	41·2	36·2	1·9	3·2	1·2	·189	·199	·191	83	76	88
	p Marchmont § ¶§	9, −, 9	500	9·120	—	9·660	45·7	33·1	39·4	+0·2	54	30, 31	20	18th	37·9	—	39·7	—	38·0	2·5	—	1·6	·196	—	·197	80	—	86
2. ENGLAND, N.E.																											
North	*p* Whitby	9, −, 9	145	9·557	—	9·722	49·3	36·3	42·8	+1·4	56	4, 31	26	18th	—	—	45·7	—	40·9	4·0	—	1·9	·227	—	·222	74	—	85
	p Cockle Park §	9, −, 9	331	9·324	—	9·682	46·5	33·8	40·2	—	54	4th	23	18th	38·2	40·2	40·7	—	38·9	1·4	—	0·8	·228	—	·225	89	—	93
	a Shields ... ¶	7, −, 6	117	9·575	−·166	9·703	47·7	33·9	40·8	0·0	54	30th	23	18th	—	—	39·1	—	43·6	1·7	—	3·3	·206	—	·215	86	—	76
	p Durham ... ¶§	9, −, 9	352	9·323	—	9·703	46·5	34·0	40·3	+0·1	53	4, 30	23	18th	—	—	41·2	—	39·9	2·2	—	1·6	·216	—	·216	83	—	86
	p Rounton ... ¶	9, −, 9	245	9·451	—	9·714	47·7	34·2	41·0	+1·1	55	4th	23	18th	39·8	—	41·0	—	39·9	2·3	—	1·6	·210	—	·214	82	—	87
	p Scarborough ¶§	9, −, 9	127	9·617	—	9·741	47·9	37·3	42·6	+1·3	55	4, 11	28	18th	—	42·5*	43·0	—	42·4	2·2	—	2·1	·231	—	·229	83	—	84
	p York ... ¶§	9, −, 9	53	9·714	—	9·765	48·9	36·9	42·9	+1·5	57	4th	25	18th	41·0	41·9	42·0	—	41·9	2·6	—	2·1	·214	—	·224	81	—	85
South	*a* Spurn Head ¶	7, I, 6	28	9·738	−·107	9·772	46·9	36·6	41·8	+0·8	54	4th	30	18, 19	—	—	40·6	46·1	43·5	1·7	3·3	2·1	·218	·239	·237	87	77	84
	a Lincoln ... ¶	9, −, −	42	9·784	—	9·820	49·5	36·7	43·1	+1·3	56	3, 4	26	18th	39·6	41·2	43·2	—	—	2·0	—	—	·238	—	—	85	—	—
	a Skegness ... §	9, −, −	16	9·800	—	9·808	48·8	36·4	42·6	—	56	4th	27	18th	—	—	42·6	—	—	2·0	—	—	·231	—	—	85	—	—
	p Hull	9, −, 9	12	9·781	—	9·786	49·4	36·9	43·2	+2·2	57	4th	28	18th	40·8	42·0	43·1	—	42·6	2·6	—	2·2	·224	—	·227	80	—	84
3. ENGLAND, E.																											
North	*p* Lowestoft	9, 3, 9	77	9·774	—	9·859	50·0	38·7	44·4	+3·2	57	5th	29	18th	42·9	43·4	46·3	47·8	43·8	2·7	3·5	1·8	·256	·257	·249	81	77	86
	p Cromer ... ¶§	9, −, 9	139	9·681	—	9·826	50·3	37·6	44·0	—	55	4, 11, 30	30	2nd	—	—	42·7	—	41·8	1·6	—	0·5	·239	—	·254	87	—	96
	p Lit. Massingham ...	9, 3, 9	280	—	—	—	49·5	36·2	42·9	+1·4	56	12th	27	18th	—	—	42·0	47·6	41·1	—	—	—	—	—	—	—	—	—
	a Yarmouth ... ¶	7, I, 9	27	9·834	−·042	9·856	49·6	37·7	43·7	+3·2	56	5, 6	30	18, 19	42·6	44·5	41·3	47·0	44·1	1·0	2·1	1·5	·239	·273	·256	92	85	88
	p Geldeston ... ¶§	9, −, 9	47	9·818	—	9·861	50·5	37·8	44·2	+2·6	56	4, 5	27	12th	—	—	44·2	—	42·8	2·3	—	1·8	·240	—	·236	82	—	86
South	*p* Cambridge... ¶§	9, −, 9	43	9·806	—	9·846	51·7	36·9	44·3	+2·4	56	4, 11, 29	24	25th	43·0	43·9	44·2	—	42·8	2·2	—	1·9	·246	—	·238	84	—	85
	a Clacton ... ¶§	7, I, 9	54	9·822	−·034	9·881	48·9	39·2	44·1	+1·9	56	5th	29	18th	43·6	44·8	42·1	47·4	43·9	1·5	3·3	1·7	·236	·251	·249	88	78	87
	p Woburn	9, −, 9	294	9·562	—	9·880	50·1	36·5	43·3	—	57	11th	26	12, 18	—	—	43·6	—	42·3	2·0	—	2·1	·244	—	·230	86	—	85
	a Bennington ...	9, 3, 9	411	—	—	—	50·1	36·5	43·3	+2·0	55	5, 6	25	18th	42·4	43·0	43·3	48·2	41·6	2·0	4·4	2·0	·240	·244	·225	84	71	84
	a Berkhamsted ...	9, −, 9	397	9·452	—	9·882	50·6	35·8	43·2	+1·7	57	5th	24	18th	42·5	—	42·9	—	41·7	2·2	—	2·2	·234	—	·221	84	—	83
4. MIDLAND COUNTIES.																											
East	*a* Garforth	9, −, 9	198	—	—	—	48·4	34·3	41·4	—	56	4th	23	18th	40·5	41·8	42·8	—	41·5	2·9	—	1·8	·218	—	·226	79	—	85
	p Huddersfield ...	9, 3, 9	411	9·311	—	9·762	46·9	35·6	41·3	—	55	4, 31	26	18th	39·9	41·1	40·6	44·9	40·4	2·0	3·4	1·8	·215	·227	·218	85	77	86
	p Sheffield ... §	9, −, 9	450	9·294	—	9·781	47·8	36·7	42·3	+0·7	55	4th	26	18th	40·3	41·5	41·9	—	41·9	2·9	—	2·5	·209	—	·216	78	—	81
	a Worksop	9, −, 9	67	9·724	−·121	9·789	50·3	35·7	43·0	+1·3	57	3, 4	24	18th	41·4	42·1	43·1	47·5	—	2·7	4·6	—	·222	·227	—	79	69	—
	p Buxton	9, 3, 9	997	8·709	—	9·799	45·1	33·9	39·5	+1·0	53	31st	21	18th	39·4	41·3	39·8	43·8	39·1	2·1	3·0	2·3	·204	·222	·194	84	77	82
	a Belvoir Castle ...	9, −, 9	276	9·529	—	9·825	48·6	36·3	42·5	+1·8	55	3, 4	22	18th	41·4*	42·2	41·9	—	41·6	2·0	—	2·1	·226	—	·220	86	—	84
	a Coventry	9, −, −	309	9·514	—	9·844	50·4	37·2	43·8	+1·7	56	11th	25	18th	41·8	43·9	43·6	—	—	2·5	—	—	·230	—	—	81	—	—
	a Thrapston	9, 3, −	251	—	—	—	50·3	35·7	43·0	—	55	4, 11, 30	25	18th	—	—	43·3	48·2	—	2·0	4·2	—	·237	·241	—	84	72	—
	a Nottingham ¶§	7, I, 9	85	9·715	−·111	9·809	49·5	35·4	42·5	+0·9	56	4th	25	18th	39·1	40·8	39·6	47·7	42·5	0·8	3·5	1·4	·227	·250	·241	93	76	89
	a Birmingham ¶§	9, −, 9	542	9·239	—	9·828	48·2	36·5	42·4	+1·2	56	4th	25	18th	41·2	43·7	40·0	—	41·9	1·8	—	2·5	·215	—	·219	86	—	81
	a Oxford ... ¶§	8, −, 8	212	—	—	—	50·8	37·9	44·4	+2·3	56	11th	28	18th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·640	−·051				44·3											2·8			·231			79		
West	*a* Bath ... ¶§	7, −, 6	84	9·782	−·059	9·879	52·2	36·3	44·3	+1·6	57	5, 31	27	12th	43·8	45·6	41·1	—	47·4	—	—	—	—	—	—	—	—	—
	p Shrewsbury ... ¶	9, −, 9	212	9·585	—	9·808	50·7	35·6	42·2	−0·5	58	4th	25	18th	—	—	42·9	—	41·6	2·6	—	2·1	·225	—	·222	81	—	84
	p Wistanstow ...	9, −, 9	484	9·272	—	9·796	49·0	35·0	42·0	—	55	4th	25	18th	—	—	42·4	—	40·8	2·2	—	1·6	·225	—	·221	83	—	88
	p Bromyard	9, −, 9	400	9·391	—	9·823	49·5	34·9	42·2	—	55	10, 11	23	18th	41·8	42·5	43·5	—	41·3	2·2	—	1·8	·238	—	·226	83	—	86
	p Cheltenham ...	9, −, 9	206	9·636	—	9·854	50·3	37·6	44·0	+2·3	55	27, 31	27	18th	—	—	44·9	—	42·1	2·6	—	2·3	·240	—	·220	81	—	83
5. ENGLAND, S.E.																											
	p Reading	9, −, 9	264	9·588	—	9·871	51·5	36·6	44·1	—	57	5, 22, 30	26	18th	—	—	43·2	—	43·4	0·9	—	1·1	·260	—	·258	92	—	91
	p Salisbury	9, −, 9	186	—	—	—	50·5	36·6	43·6	+1·6	57	31st	27	12th	44·0	—	44·1	—	43·2	1·9	—	1·6	·247	—	·245	85	—	88
	a Grayshott	9, 2, −	659	9·195	—	9·919	49·1	36·8	43·0	—	757	22nd	24	18th	42·2	—	42·3	46·9	—	1·5	3·5	—	·238	·242	—	89	77	—
	a Midhurst	9, 2, −	493	9·367	—	9·907	49·4	38·2	43·8	—	55	30th	28	18th	—	—	43·5	47·5	—	1·8	3·8	—	·246	·249	—	86	75	—
	a Brighton	9, −, −	48	9·881	—	9·924	49·6	41·6	45·6	+2·6	55	29th	30	18th	—	44·5	45·4	—	—	1·8	—	—	·262	—	—	87	—	—
	a Portsmouth	9, −, −	18	9·912	—	9·924	51·6	41·1	46·4	+3·4	56	5, 6, 30	31	18th	45·4	46·3	45·9	—	—	1·9	—	—	·266	—	—	87	—	—
	p Eastbourne §	9, −, 9	36	9·890	—	9·922	50·4	41·2	45·8	+2·8	54	21, 22	31	18th	45·4	46·0	46·5	—	45·8	1·8	—	1·5	·278	—	·277	87	—	90
	a Dover	7, −, 6	234	9·671	+·004	9·930	49·1	39·6	44·4	—	55	11th	29	18th	44·1	45·0	43·1	—	44·8	1·5	—	1·8	·246	—	·255	88	—	86
	a Dungeness... ¶	7, I, 6	21	9·864	−·033	9·890	49·6	40·3	45·0	+3·1	53	19,22,30	29	18th	—	—	44·1	48·7	46·2	1·5	2·9	1·8	·256	·275	·272	88	81	88
	p Hastings ... ¶	9, −, 9	174	9·741	—	9·924	49·6	41·1	45·4	+3·0	53	5, 29, 30	31	18th	44·7	44·8	44·9	—	44·6	1·9	—	1·5	·254	—	·260	86	—	89
	p Southampton ¶§	9, −, 9	84	9·828	—	9·914	51·6	39·5	45·6	+2·0	57	5, 30	29	18th	—	—	44·6	—	44·8	1·9	—	1·9	·258	—	·257	86	—	86
	a Ventnor ... ¶§	9, 3, −	80	9·819	—	9·899	50·8	41·4	46·1	+2·0	55	30th	31	18th	—	—	45·9	48·8	—	2·1	3·4	—	·263	·266	—	86	77	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

* At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of MARCH, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
3·58	—	31	—	8·0	7·4	6·4	3·61	—	0·46	16th	24	19	7	—	12	1	0	12	0	—	2	65	3	5	4	6	8	16	21	19	11	Castlebay.
3·16	−0·19	27	− 2	6·2	—	5·2	2·72	−0·09	0·36	30th	24	21	9	2	2	1	1	6	1	—	5	64	4	6	2	3	11	22	21	17	7	Deerness.
—	—	—	—	8·2	7·3	7·6	5·50	—	0·54	20th	24	23	8	—	7	0	0	13	1	—	13	47	1	5	2	11	17	22	20	10	5	Lerwick.
3·10	−0·22	27	− 2	7·8	6·9	7·2	6·52	+2·61	0·83	12th	27	23	10	—	3	1	0	9	0	—	4	64	1	5	2	2	8	20	31	21	3	Stornoway.
—	—	—	—	7·4	7·3	7·0	3·18	+1·04	0·51	19th	23	22	10	—	2	0	0	9	2	—	6	51	2	5	2	1	8	14	27	28	6	Wick.
3·41	+0·47	29	+ 4	7·1	—	5·4	2·87	+0·28	0·35	9th	23	17	7	5	3	0	2	8	0	—	2	26	33	2	2	1	3	12	15	19	6	Strathpeffer.
—	—	—	—	9·1	—	8·2	6·61	−1·24	1·22	9th	23	22	12	—	3	0	0	25	0	—	3	48	0	11	4	18	0	1	0	59	0	Glencarron.
2·58	+0·06	22	+ 1	8·3	—	6·8	6·77	+3·09	0·75	9th	25	21	8	9	2	1	1	17	0	—	6	32	0	6	9	2	1	0	71	3	1	F. Augustus.
—	—	—	—	8·3	—	6·7	12·17	+5·51	1·38	4th	26	22	8	7	1	1	0	15	0	—	0	30	11	0	9	1	6	5	57	4	0	Ft. William.
—	—	—	—	7·9	—	7·1	5·16	—	—	—	24	20	9	12	0	1	3	20	0	—	4	35	11	4	3	3	1	0	18	36	17	Kingussie.
—	—	—	—	6·5	—	6·8	2·35	−0·17	0·48	19th	18	13	6	1	0	0	2	9	0	—	3	15	15	0	2	24	1	2	4	42	3	Dunrobin.
4·15	—	36	—	7·5	6·7	7·1	2·46	+0·63	0·30	5th	26	17	9	—	4	0	0	6	0	—	4	18	14	3	2	4	3	4	22	38	3	Nairn.
4·23	—	36	—	7·4	—	8·3	2·75	+0·52	0·64	22nd	19	13	8	2	0	0	0	16	0	—	1	33	0	2	4	0	14	19	44	10	0	Gordon C.
4·23	+0·42	36	+ 3	5·3	5·9	6·1	3·09	+0·76	1·29	22nd	20	12	6	0	1	0	4	8	1	—	0	30	4	4	0	3	10	26	24	16	6	Aberdeen.
—	—	—	—	7·4	—	—	5·45	—	0·70	28th	21	19	12	13	0	0	1	15	0	24	2	12	0	3	6	0	6	0	18	24	36	Balmoral.
—	—	—	—	6·2	—	—	5·26	+2·61	1·11	5th	19	18	11	13	0	0	1	7	0	23	2	21	0	6	0	6	0	6	18	39	18	Braemar.
—	—	—	—	7·2	—	7·5	3·58	+1·63	0·73	22nd	20	13	5	1	0	0	2	13	0	—	4	14	0	3	5	6	4	3	59	7	6	Dundee.
—	—	—	—	8·2	—	7·4	7·27	+4·35	0·83	18th	24	20	7	9	2	1	1	16	0	—	3	41	0	0	6	15	0	0	6	49	17	Crieff.
—	—	—	—	6·6	—	6·6	2·58	+1·04	0·89	22nd	20	15	4	—	0	0	0	11	2	—	0	39	3	5	3	4	3	20	37	15	3	Leith.
3·02	—	26	—	7·3	7·5	6·6	3·83	—	0·74	22nd	26	22	14	9	3	0	1	11	1	20	1	13	9	3	6	3	4	10	38	16	4	West Linton.
3·87	+0·39	33	+ 3	5·6	—	6·3	3·34	+0·86	0·81	22nd	24	19	4	4	1	1	6	12	0	16	2	30	0	8	0	10	5	6	10	48	6	Marchmont.
4·33	—	37	—	6·8	—	6·4	2·33	+0·48	0·46	18th	21	14	2	0	2	0	0	12	0	—	4	41	3	3	3	3	4	12	24	30	11	Whitby.
4·88	—	42	—	5·6	—	5·6	3·06	+0·75	0·89	22nd	22	16	4	1	1	0	0	8	0	20	1	24	1	2	2	10	3	6	15	52	2	Cockle Park.
—	—	—	—	7·4	—	7·8	2·50	+0·81	0·61	22nd	20	10	3	—	0	0	0	14	0	—	0	27	0	2	3	7	6	17	39	13	6	Shields.
3·82	+0·18	33	+ 2	7·3	—	6·8	2·20	+0·36	0·45	22nd	20	12	4	0	0	0	2	14	3	?	7	36	7	3	0	3	5	21	21	25	8	Durham.
—	—	—	—	6·5	—	6·0	2·28	+0·39	0·42	18th	24	11	3	1	0	0	3	11	0	21	4	48	5	3	0	0	12	18	33	6	16	Rounton.
3·45	—	29	—	7·2	—	8·2	1·99	+0·20	0·50	22nd	24	16	1	0	1	0	0	12	1	—	0	66	0	2	3	0	10	0	52	5	21	Scarborough
2·64	−0·66	23	− 5	6·2	—	6·5	2·08	+0·43	0·28	29th	24	16	2	0	0	0	2	11	1	—	0	18	0	5	2	4	3	24	22	27	6	York.
3·24	—	28	—	6·3	6·8	7·1	2·54	+1·11	0·53	17th	20	14	5	—	0	1	0	7	3	—	7	69	0	6	1	7	9	13	24	27	6	Spurn Head.
—	—	—	—	6·1	—	5·2	2·50	+1·08	0·38	16th	21	17	3	0	0	1	6	11	0	—	0	27	0	1	5	5	9	3	24	37	9	Lincoln.
3·50	—	30	—	6·5	—	—	2·63	—	0·47	16th	22	16	1	0	0	0	5	11	0	—	0	63	0	6	6	6	0	30	24	12	9	Skegness.
2·29	—	20	—	6·1	—	6·1	2·41	+0·68	0·38	16th	20	15	3	1	1	1	5	8	0	19	0	9	20	3	6	0	6	6	46	3	3	Hull.
3·72	—	32	—	6·8	6·8	5·5	2·18	+0·70	0·56	31st	19	13	2	1	1	0	2	7	0	5	1	60	0	6	0	8	5	16	36	15	7	Lowestoft.
3·68	—	31	—	7·9	—	6·7	1·81	—	0·46	16th	21	16	—	—	—	—	0	13	—	—	—	54	0	6	0	3	12	30	28	11	3	Cromer.
3·14	−0·57	27	− 4	7·2	6·8	5·5	2·69	+0·97	0·88	16th	21	15	2	1	0	3	2	10	0	20	4	38	4	3	3	5	4	8	32	23	11	L. Mas'gh'm.
3·64	—	31	—	6·1	6·7	4·2	2·34	+0·70	0·48	31st	18	17	2	—	0	0	1	4	0	—	0	22	3	2	1	9	5	14	32	24	3	Yarmouth.
3·29	−0·77	28	− 6	7·5	—	5·5	1·84	+0·32	0·31	31st	18	14	2	0	0	1	3	12	0	—	0	12	3	6	3	6	6	9	39	19	2	Geldeston.
3·80	−0·17	32	− 2	7·5	—	5·3	1·63	+0·28	0·25	16th	17	14	2	0	2	3	4	13	0	14	1	24	6	6	1	2	8	16	39	13	2	Cambridge.
3·65	—	31	—	7·0	7·0	6·3	2·06	—	0·38	21st	20	15	1	—	1	2	0	10	0	3	0	50	0	4	3	4	10	15	35	16	6	Clacton.
3·52	—	30	—	7·1	—	6·1	2·50	—	0·46	16th	20	16	3	0	2	2	3	13	0	—	7	36	10	1	5	5	3	12	31	20	6	Woburn.
3·57	—	30	—	7·0	7·9	6·5	1·95	+0·33	0·32	16th	21	16	2	0	1	4	1	14	0	9	0	25	13	2	1	4	5	9	25	30	4	Bennington.
3·30	—	28	—	7·6	—	6·4	2·38	+0·48	0·31	16th	22	16	2	0	3	1	2	13	0	20	1	3	16	3	1	5	5	23	28	11	1	Berkh'mst'd.
2·65	—	23	—	7·0	—	6·3	2·47	—	0·32	15th	25	17	7	1	3	2	2	11	1	16	0	8	3	6	0	6	5	16	21	33	3	Garforth.
2·88	—	25	—	5·8	7·1	6·1	5·72	—	0·70	22nd	26	22	3	2	4	0	1	8	0	9	3	29	8	0	5	5	4	13	17	33	8	Huddersf'ld.
3·23	—	28	—	6·5	—	6·7	4·37	+1·98	0·92	22nd	22	17	5	0	1	0	2	10	1	8	0	26	5	6	2	3	7	22	27	18	3	Sheffield.
3·20	−0·06	27	− 1	6·6	7·6	5·8	2·74	+0·87	0·46	14th	19	15	3	1	1	2	1	7	0	17	0	32	2	4	4	5	7	10	39	16	6	Worksop.
2·94	—	25	—	6·7	6·7	6·4	6·38	+2·45	1·30	22nd	25	22	5	2	0	0	1	13	0	19	0	5	0	3	1	4	8	8	32	22	15	Buxton.
3·56	—	30	—	6·1	—	4·6	3·69	+2·11	0·55	14th	23	17	3	1	3	3	4	6	4	10	6	39	19	3	2	0	2	15	33	13	6	Belvoir C.
3·27	—	28	—	6·6	—	—	3·73	+2·16	0·75	16th	20	17	3	1	3	1	5	16	0	17	0	36	3	3	6	9	3	24	30	15	0	Coventry.
3·52	—	30	—	6·8	7·3	—	2·86	—	0·85	16th	19	15	1	2	2	3	2	14	1	14	—	—	0	3	0	10	5	11	27	25	12	Thrapston.
3·32	—	28	—	6·6	7·3	5·1	3·32	+1·79	0·49	15th	22	16	2	—	2	1	1	10	1	10	10	52	0	2	3	8	6	10	35	20	9	Nottingham.
2·97	—	25	—	6·8	—	5·3	4·41	+2·71	0·70	14th	19	17	2	0	0	0	5	12	0	21	0	17	10	2	3	4	9	18	27	15	5	Birmingh'm.
3·14	−0·51	27	− 4	7·5	—	—	2·67	+1·18	0·38	16th	19	12	4	0	5	2	—	—	1	10	5	53	3	1	5	5	5	18	35	15	6	Oxford.
							2·68	+1·09																						
3·45	—	29	—	8·0	—	7·8	3·39	+1·33	0·60	16th	21	14	—	—	—	—	2	19	—	—	—	32	4	2	3	7	5	13	24	32	3	Bath.
—	—	—	—	6·6	—	5·4	3·63	—	0·74	22nd	17	16	2	0	2	0	4	9	0	15	2	21	13	0	0	0	9	8	43	12	8	Shrewsbury.
—	—	—	—	7·6	—	5·5	5·77	—	0·97	22nd	19	18	6	2	3	1	1	10	0	16	1	21	34	3	6	0	0	3	37	8	2	Wistanstow.
—	—	—	—	7·2	—	5·7	5·02	—	0·65	16th	20	20	2	2	2	0	2	1	11	21	0	17	13	2	2	5	10	12	15	27	7	Bromyard.
3·58	—	30	—	7·3	—	5·7	3·16	+1·39	0·60	16th	19	17	1	0	1	0	1	11	0	15	1	32	3	3	6	0	9	5	61	3	3	Cheltenham.
3·87	—	33	—	7·0	—	5·6	2·10	+0·54	0·38	16th	18	15	2	0	0	1	2	10	0	—	1	38	13	0	3	0	6	14	36	19	2	Reading.
—	—	—	—	6·3	—	6·3	4·04	+1·87	0·49	16th	23	15	2	0	4	2	2	8	1	11	1	48	0	4	6	2	12	6	27	22	14	Salisbury.
2·91	—	25	—	7·3	8·3	—	3·96	—	0·42	16th	25	21	3	1	0	3	0	21	0	13	6	27	1	2	6	6	4	9	21	33	11	Grayshott.
3·02	—	26	—	7·6	8·5	—	3·64	—	0·53	16th	24	20	2	0	3	1	0	20	0	—	4	65	0	5	8	3	7	6	33	25	6	Midhurst.
3·88	−0·41	33	− 3	7·1	—	—	2·66	+0·94	0·61	16th	21	17	0	0	2	0	5	18	0	3	0	52	0	3	0	18	6	9	24	27	6	Brighton.
4·03	—	34	—	6·0	—	—	2·75	+1·01	0·48	16th	20	15	1	0	2	1	8	12	0	5	0	81	0	3	6	6	9	6	6	39	18	Portsmouth.
3·62	−0·73	31	− 6	7·1	—	4·4	2·88	+0·84	0·57	16th	20	18	0	0	0	0	5	10	0	—	4	9	0	6	9	3	4	1	51	14	5	Eastbourne.
4·24	—	36	—	7·2	—	6·0	2·13	—	0·39	31st	26	16	2	—	1	1	1	8	0	3	5	57	0	2	9	0	7	6	54	3	12	Dover.
—	—	—	—	7·8	7·8	7·2	2·59	+1·21	0·47	31st	20	15	1	—	1	0	0	8	4	—	9	62	0	4	5	6	6	9	50	8	5	Dungeness.
3·59	−0·83	31	− 6	7·1	—	6·0	2·71	+0·76	0·59	16th	24	21	0	0	1	1	3	13	0	3	5	53	0	6	6	4	6	11	40	15	5	Hastings.
3·16	−0·90	27	− 8	6·6	—	4·8	3·45	+1·39	0·39	21st	22	17	0	0	3	3	2	8	0	7	1	24	0	0	10	2	10	2	45	2	22	S'mpton.
3·94	−0·67	33	− 6	6·9	6·3	—	1·74	−1·13	0·48	16th	22	15	0	0	0	1	4	13	0	—	2	51	0	6	6	6	5	13	31	24	2	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·818	—	9·870	50·9	39·6	45·3	+2·7	58	6th	29	18th	—	44·5	45·1	—	45·0	2·8	—	2·7	·244	—	·246	80	—	80
p Hampstead ...	9, –, 9	453	9·400	—	9·889	49·5	37·7	43·6	—	56	5, 6	26	18th	—	—	43·2	—	43·4	2·0	—	2·0	·236	—	·238	85	—	84
a Camden Square ...	9, –, 9	123	9·760	—	9·888	52·1	38·1	45·1	+2·1	59	6th	26	18th	42·3	43·4	45·1	—	44·9	2·4	—	2·6	·246	—	·240	82	—	81
a Westminster ...	9, 3, –	—	—	—	—	51·9	40·0	46·0	+3·1	59	6th	31	18th	—	—	45·4	49·9	—	1·7	3·3	—	·264	·279	—	88	78	—
a South Kensington*	9, 3, 6	70	9·816	—	9·890	52·0	40·5	46·3	—	59	5th	32	18th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Greenwich... ...	9, –, 9	159	9·720	—	9·889	52·0	38·3	45·1	+3·3	59	6th	28	18th	—	44·0	44·7	—	43·9	2·5	—	2·5	·241	—	·233	81	—	81
			9·715	–·048	9·893			44·5	+2·6																		
Kew ... ¶§	9, 3, 9	34	9·856	–·054	9·893	51·0	38·9	45·0	+2·5	57	29th	29	25th	43·2	44·6	44·3	49·5	44·5	2·5	4·7	2·7	·241	·252	·238	82	70	80
			9·856	–·053	9·894			44·9	+2·8																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	8·843	—	9·699	43·1	31·4	37·3	—	52	29th	16	18th	—	—	37·1	41·5	36·7	1·6	3·2	1·2	·190	·202	·197	85	76	88
p Poltalloch ... § ¶	9, –, 9	135	9·483	—	9·630	46·0	35·5	40·8	+0·1	55	29th	21	18th	—	—	41·0	—	40·0	1·7	—	1·5	·221	—	·217	86	—	88
p Glasgow ... ¶§	9, –, 9	184	9·443	—	9·640	46·1	36·6	41·4	+0·9	54	30th	27	18th	—	—	40·5	—	40·5	2·2	—	2·0	·211	—	·215	83	—	85
p Rothesay ... § ¶	9, –, 9	76	9·571	—	9·650	47·8	36·6	42·2	+0·8	57	30th	24	18th	—	42·1	41·3	—	40·0	2·5	—	2·5	·209	—	·198	81	—	80
a Colmonell ... § ¶	9, 3, –	150	9·546	—	9·719	47·6	35·9	41·8	+0·4	56	29th	21	18th	—	—	41·3	45·5	—	1·5	2·6	—	·229	·247	—	88	81	—
p Dumfries ... § ¶	9, –, 9	155	9·546	—	9·714	46·8	35·4	41·1	–0·2	56	29th	24	18th	40·1	41·3	40·3	—	40·3	2·3	—	1·7	·204	—	·215	82	—	87
p Cally ... § ¶	9, –, 9	120	—	—	—	47·2	36·0	41·6	+0·7	56	30th	24	18th	—	—	42·3	—	40·0	1·9	—	1·8	·230	—	·211	86	—	86
p Douglas ... ¶§	9, –, 9	284	9·416	—	9·721	46·6	37·3	42·0	+0·2	53	29th	23	18th	—	—	42·1	—	41·3	2·0	—	1·5	·229	—	·232	85	—	88
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·736	—	9·780	48·8	37·4	43·1	+1·6	56	31st	27	18th	41·2	42·3	43·1	46·3	42·2	2·5	4·0	2·1	·228	·231	·229	81	73	84
p Manchester (City)	9, –, 9	195	9·571	—	9·778	48·5	38·1	43·3	—	56	4, 31	28	18th	40·5	43·0	42·5	—	42·8	2·7	—	2·3	·219	—	·230	80	—	83
p „ (WhitworthPk.)	9, –, 9	127	9·636	—	9·768	48·8	37·2	43·0	—	56	4, 31	26	18th	—	—	43·5	—	42·3	3·4	—	2·4	·212	—	·220	75	—	82
p Darwen	9, –, 9	730	8·984	—	9·779	45·3	34·3	39·8	—	53	31st	23	18th	40·4	41·0	40·4	—	39·4	1·9	—	1·4	·215	—	·217	84	—	88
p Egremont	9, –, 9	354	9·343	—	9·725	46·1	35·9	41·0	—	56	29th	23	18th	41·4	42·2	41·1	—	40·3	2·0	—	1·5	·217	—	·222	84	—	88
p Aspatria ... ¶§	9, –, 9	254	9·428	—	9·700	46·9	35·4	41·2	+0·5	56	29th	24	18th	41·2	43·0	41·7	—	40·2	2·1	—	1·4	·222	—	·222	84	—	89
p Newton Rigg ¶§	9, –, 9	559	9·097	—	9·704	46·1	34·0	40·1	+0·5	54	4, 29	21	18th	40·0	40·6	39·1	—	39·7	1·8	—	1·7	·204	—	·210	85	—	86
p Stonyhurst ¶§	9, –, 9	363	9·375	—	9·767	46·5	36·1	41·3	+0·7	54	4th	25	18th	—	—	41·7	—	41·0	3·0	—	2·7	·208	—	·206	78	—	79
p Blackpool ... ¶§	9, –, 9	73	9·681	—	9·753	47·8	36·8	42·3	+1·0	56	31st	25	18th	41·9	43·7	43·5	—	41·3	2·1	—	1·1	·240	—	·240	83	—	91
p Liverpool (Bid.) ¶§	9, –, 9	202	9·550	—	9·764	48·1	37·5	42·8	+0·7	54	4, 31	30	18th	—	—	43·0	—	41·9	2·9	—	2·0	·217	—	·226	79	—	86
p Llandudno... ¶§	9, –, 9	32	9·759	—	9·786	49·3	38·2	43·8	+0·6	55	31st	29	18th	—	—	44·1	—	44·3	2·3	—	2·3	·239	—	·241	82	—	82
a Holyhead ... ¶	7, 1, 9	48	9·700	–·151	9·751	47·6	38·8	43·2	+0·2	52	29th	31	18, 19	—	—	41·8	47·0	43·3	1·4	3·1	1·4	·236	·251	·250	89	78	89
p Bettws-y-Coed ¶§	9, –, 9	125	9·652	—	9·780	49·5	35·7	42·6	–0·4	54	29, 31	29	25th	41·7	43·8	44·3	—	44·1	2·3	—	2·6	·241	—	·233	82	—	80
p Dwyran	9, –, 9	30	9·751	—	9·775	48·6	38·9	43·8	—	54	29th	28	18th	44·1	44·4	45·2	—	43·7	1·6	—	0·6	·264	—	·271	88	—	95
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·210	—	9·846	48·1	34·5	41·3	–0·2	55	27th	23	18th	41·3	43·7	40·7	—	—	1·0	—	—	·233	—	—	92	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·641	–·119	9·804	48·4	40·0	44·2	+1·2	53	29th	33	17th	—	—	43·5	46·0	44·3	1·6	2·6	2·0	·248	·252	·247	87	82	84
a Portland Bill ¶	7, 1, 9	23	9·851	–·048	9·886	48·8	41·9	45·4	+1·0	51	3, 27, 31	35	18th	—	—	45·0	47·7	45·6	0·8	1·3	1·4	·280	·299	·274	94	91	90
p Plymouth ... ¶§	9, 3, 9	116	9·754	—	9·881	51·2	40·0	45·6	+1·4	57	30th	30	18th	45·3	—	46·7	49·3	45·1	2·0	2·8	1·2	·272	·284	·272	86	81	90
Falmouth ... ¶§	9, 3, 9	183	9·698	–·059	9·897	50·4	41·7	46·1	+1·7	54	27, 30	34	18th	—	—	46·6	48·9	45·2	2·4	3·2	2·0	·267	·273	·260	83	79	86
			9·698	–·058	9·898			46·2	+1·9																		
p Cardiff	9, –, 9	216	9·615	—	9·844	49·9	37·0	43·5	+0·2	55	6, 31	28	18th	43·1	44·0	43·5	—	42·9	2·0	—	2·0	·240	—	·234	84	—	85
a Newquay ... §	7, –, 6	161	9·723	–·066	9·867	50·0	40·0	45·0	+0·4	54	5, 6, 27	32	12, 18	45·6	—	44·8	—	46·5	1·7	—	2·0	·257	—	·270	87	—	86
p Woolacombe ...	9, –, 9	120	9·747	—	9·872	50·1	40·4	45·3	+0·3	56	27th	33	18th	—	—	46·1	—	44·7	1·8	—	1·4	·270	—	·261	87	—	89
a Princetown ...	9, 3, –	1360	8·370	—	—	45·9	35·1	40·5	—	53	11, 14	26	18th	—	—	39·6	42·8	—	0·9	2·1	—	·225	·231	—	93	84	—
p Sheepstor	9, 3, 9	730	9·085	—	9·883	47·9	34·4	41·2	—	54	30th	27	18th	—	—	43·4	46·4	40·3	1·5	2·4	0·6	·252	·263	·240	89	83	95
p Teignmouth ...	9, 3, 9	20	9·873	—	9·873	51·5	40·1	45·8	—	59	30th	30	18th	—	—	45·6	49·8	46·0	2·0	3·0	1·6	·263	·287	·276	85	80	89
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·329	–·252	9·585	—	37·1	—	—	—	—	31	18th	—	—	40·0	44·4	42·9	0·6	1·2	1·2	·234	·265	·250	95	91	91
West. *a* Blacksod Point ¶	7, 1, 9	41	9·589	–·251	9·630	48·1	38·2	43·2	–0·6	53	4th	32	15th	—	—	42·3	46·7	43·8	1·5	2·4	1·7	·238	·264	·248	89	83	87
West. *p* Markree Castle ¶§	9, –, 9	127	9·544	—	9·680	49·3	34·4	41·9	–0·1	58	4, 5	27	18, 24	42·4	43·8	40·0	—	39·8	1·8	—	1·7	·213	—	·215	85	—	86
East. *a* Donaghadee ¶	7, 1, 9	40	9·644	–·195	9·685	47·4	36·2	41·8	–0·4	56	4th	28	18, 19	—	—	38·9	45·5	40·9	1·4	3·6	1·4	·210	·227	·227	90	74	89
East. *p* Armagh ... ¶§	9, –, 9	202	9·461	—	9·674	48·2	35·5	41·9	+0·4	56	30th	27	18th	41·5	43·2	42·0	—	39·4	2·8	—	2·5	·211	—	·194	78	—	80
East. *a* Belfast	9, –, 9	55	—	—	—	49·2	35·5	42·4	—	56	30th	25	18th	—	—	43·3	—	41·3	2·9	—	2·0	·221	—	·222	78	—	84
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	48·0	33·7	40·9	—	54	4, 29, 30	26	18th	40·8	43·4	40·9	—	39·7	2·0	—	1·1	·215	—	·222	85	—	91
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	50·2	36·5	43·4	—	58	4th	26	18th	43·2	44·6	44·2	—	43·3	3·5	—	2·6	·222	—	·225	75	—	81
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·569	—	9·738	49·3	33·8	41·6	–0·3	56	4, 30	21	18th	—	—	43·3	—	40·7	2·3	—	1·3	·234	—	·231	83	—	89
East. *p* „ (City)... ¶	9, –, 9	53	9·669	—	9·720	49·6	38·0	43·8	+0·1	57	4th	28	18th	—	—	42·8	—	43·1	2·9	—	2·4	·218	—	·230	79	—	82
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·521	–·206	9·718	49·5	33·8	41·7	–0·6	55	4, 27, 30	25	18th	42·4	43·9	38·1	47·0	44·6	1·1	4·0	2·5	·207	·233	·239	90	73	81
West. Valencia ... ¶§	9, 3, 9	45	9·699	–·177	9·747	49·4	40·0	44·7	–0·7	53	29th	34	17, 18	—	—	44·3	47·4	44·4	2·0	2·6	2·0	·250	·263	·252	85	82	85
			9·701	–·174	9·750			45·0	–0·2																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·736	–·141	9·788	49·1	39·1	44·1	–0·5	53	29th	31	18th	—	—	43·0	47·5	46·6	0·9	2·0	1·3	·257	·281	·287	93	86	91
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·669	—	9·723	49·8	35·6	42·7	—	55	29, 30	26	18th	43·9	—	42·7	46·9	41·8	1·4	2·3	0·9	·245	·271	·249	89	84	93
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·701	–·075	9·863	51·0	42·0	46·5	+0·4	54	11, 27, 30	36	17th	—	—	46·2	49·3	46·2	1·3	2·2	1·2	·283	·296	·285	91	85	92
a Jersey ... ¶§	7, 1, 9	36	9·941	+·012	9·976	53·1	42·3	47·7	+2·6	57	12, 23, 31	34	18th	—	—	45·4	50·2	47·0	1·4	3·2	2·0	·271	·284	·275	90	79	86
p Guernsey (Brooklyn).	9, –, 9	311	9·617	—	9·950	51·7	42·6	47·2	+2·2	55	22, 31	34	18th	46·9	47·1	46·3	—	45·5	2·2	—	1·8	·267	—	·268	84	—	87
a Gibraltar ...	7, 1, 9	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet given in 1912 is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m. and 6 p.m. or 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of MARCH, 1913.

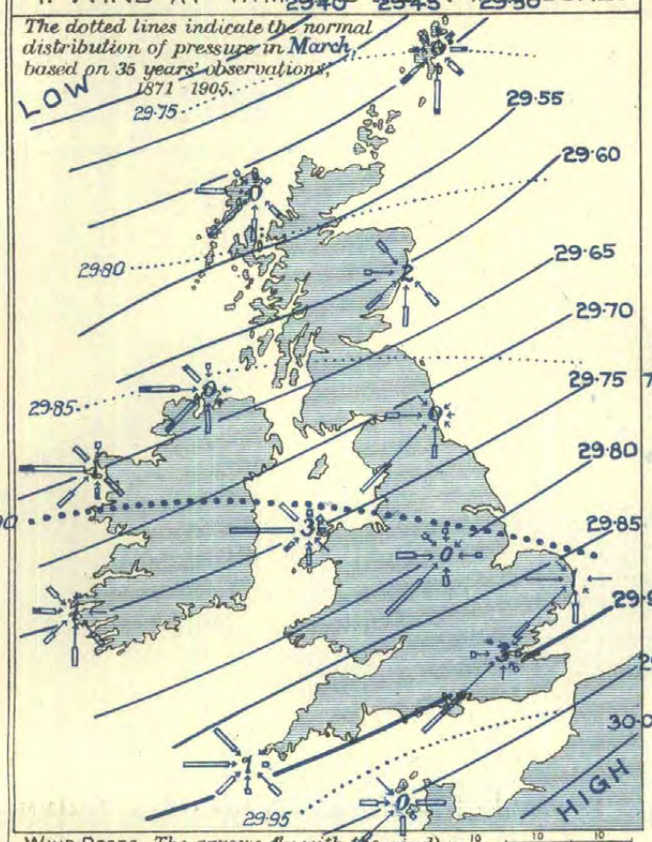
BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of											WIND. No. of Observations reduced to a total of 93 for the month.										STATIONS.
				Mean Amount.					Most in a day.													Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																							
2·78	—	24	—	8·5	—	7·3	2·18	—	0·36	16th	18	14	2	0	0	2	2	19	0	9	0	18	1	6	4	2	6	8	40	20	6	Tottenham.
2·58	—	22	—	7·7	—	6·6	2·37	—	0·37	16th	21	15	2	0	2	2	2	17	1	16	1	21	9	3	6	2	4	8	42	15	4	Hampstead.
2·52	—	21	—	7·3	—	—	2·29	+0·63	0·32	16th	21	17	1	0	2	3	5	21	2	9	—	—	3	9	6	3	9	9	30	24	0	Camden Sq.
2·34	+0·12	20	+ 1	—	—	—	2·07	—	0·34	16th	21	17	4	0	2	1	0	0	1	8	—	—	—	—	—	—	—	—	—	—	—	Westminster
2·34	—	20	—	8·3	—	6·8	2·05	—	0·33	16th	20	15	2	—	1	2	2	19	2	12	1	27	3	1	5	6	4	15	43	11	5	S.Kensingtn
2·98	−0·46	25	− 3	7·5	—	6·2	2·43	+0·91	0·33	16, 20	20	15	2	0	3	2	1	14	3	13	0	32	9	5	3	4	4	7	34	24	3	Greenwich.
2·84	−0·58	24	− 5	7·9	7·6	5·9	2·13	+0·62	0·34	16th	20	16	1	0	3	2	0	11	3	11	1	39	9	1	5	3	4	19	35	13	4	Kew.
2·76	—	24	—	8·7	8·2	7·2	7·60	—	0·80	2, 15	24	20	10	4	4	2	0	19	0	—	4	62	12	6	3	5	3	14	35	14	1	Eskdalemuir
—	—	—	—	7·7	—	6·6	7·61	+3·86	0·99	18th	24	21	4	—	7	2	3	14	0	—	1	44	11	6	3	4	6	5	19	21	18	Poltalloch.
2·45	−0·26	21	− 2	7·6	—	7·4	3·91	+1·31	0·37	18th	24	22	4	3	6	1	1	12	0	8	0	35	10	3	3	8	3	11	29	20	6	Glasgow.
—	—	—	—	7·0	—	5·9	5·43	+2·06	0·99	18th	24	20	7	3	5	2	2	12	2	—	2	42	8	1	1	9	2	11	12	39	10	Rothesay.
—	—	—	—	6·6	—	—	4·39	+1·25	1·01	18th	21	17	2	1	2	1	3	14	0	10	2	30	3	0	3	9	6	3	18	36	15	Colmonell.
3·52	—	30	—	6·0	—	5·7	3·40	+0·56	0·59	22nd	23	15	3	1	1	0	2	7	0	12	1	27	0	5	7	0	3	3	48	14	13	Dumfries.
—	—	—	—	—	—	—	4·99	+1·42	0·90	22nd	20	14	5	1	2	2	—	—	0	—	2	21	0	15	14	6	16	0	9	1	32	Cally.
4·46	+0·17	38	+ 1	7·1	—	6·5	4·12	+1·36	0·72	22nd	24	17	4	0	9	1	1	13	0	5	3	41	0	7	2	8	8	12	19	28	9	Douglas.
3·77	+0·19	32	+ 1	7·2	7·3	6·5	3·42	+1·25	0·61	22nd	24	18	2	0	8	0	1	12	0	10	9	65	0	4	2	7	12	15	27	22	4	Southport.
2·63	—	22	—	5·2	—	5·5	3·61	+1·18	0·58	13th	24	22	5	0	3	0	0	0	0	2	0	23	0	3	1	6	9	24	25	17	8	Manchester.
2·84	—	24	—	6·7	6·5	6·3	3·31	—	0·58	22nd	24	21	0	0	1	0	0	7	0	?	0	41	7	0	5	6	8	26	23	13	5	Whitwth Pk.
2·93	—	25	—	8·6	—	8·3	7·23	—	0·98	13th	27	20	8	0	5	1	0	17	0	11	3	51	0	2	0	4	6	25	27	27	2	Darwen
3·17	—	27	—	6·1	—	6·5	4·66	—	0·66	18th	21	17	2	1	2	0	3	10	0	15	1	23	1	12	0	0	9	18	22	14	17	Egremont.
3·67	—	31	—	6·8	—	6·5	4·69	+1·90	0·73	22nd	23	19	2	1	4	1	0	9	0	10	3	26	4	5	0	7	0	21	34	20	2	Aspatria.
3·14	−0·41	27	− 3	6·6	—	6·8	5·46	+2·99	0·80	22nd	27	21	7	0	4	0	1	8	0	25	2	36	4	3	5	6	12	18	25	18	2	N'wt'n Rigg.
2·85	−0·57	24	− 5	7·7	—	6·6	6·09	+2·57	1·16	13th	26	21	4	0	9	2	1	16	1	14	0	34	13	2	5	5	3	12	26	23	4	Stonyhurst.
3·78	+0·30	32	+ 2	8·1	—	7·8	3·30	+1·07	0·48	22nd	22	19	1	0	8	0	0	13	0	12	2	60	0	3	0	10	15	14	30	16	5	Blackpool.
3·98	—	34	—	6·3	—	6·3	2·57	+0·79	0·61	22nd	22	18	2	0	7	1	3	10	0	—	1	36	0	3	2	7	15	9	31	23	3	Liverpool.
4·12	+0·54	35	+ 4	7·0	—	7·9	3·81	+1·76	0·74	22nd	25	17	0	0	3	1	0	15	0	—	1	30	1	5	2	4	2	22	28	26	3	Llandudno.
—	—	—	—	6·8	6·8	7·0	3·21	+0·80	0·76	22nd	20	13	2	—	1	0	1	6	0	—	2	69	5	3	5	3	6	12	16	34	9	Holyhead.
3·46	—	29	—	7·1	—	6·9	7·60	—	0·94	3rd	23	23	0	0	2	0	0	10	0	4	?	21	0	10	8	5	0	0	48	13	9	Bettws.
4·07	—	35	—	5·8	—	5·7	3·61	—	0·89	22nd	17	17	1	0	6	2	3	8	0	7	5	48	16	4	2	2	1	21	34	11	2	Dwyran.
2·97	—	25	—	8·0	—	—	8·85	—	1·15	15th	26	24	1	0	2	1	3	22	0	15	0	24	24	0	0	6	9	0	18	24	12	Llangamch.
3·31	−0·92	28	− 8	7·1	6·6	5·9	5·15	+2·87	0·91	15th	25	20	0	—	1	0	0	5	1	—	5	59	0	2	4	7	8	14	21	25	12	Pembroke.
—	—	—	—	6·5	6·3	5·6	2·59	—	0·57	16th	20	16	0	—	1	1	0	7	0	—	11	59	1	2	7	7	6	9	32	22	7	Portl'nd Bill
3·90	−0·36	33	− 3	7·3	7·6	5·2	4·04	+1·54	0·51	15th	22	18	0	0	2	0	2	11	0	12	1	35	5	3	1	11	5	9	25	24	10	Plymouth.
3·86	−0·59	33	− 5	7·1	7·2	4·4	4·93	+1·75	0·68	15th	24	19	0	0	4	2	2	8	0	—	0	45	6	5	2	5	4	8	35	17	11	Falmouth.
3·96	—	34	—	—	—	—	5·75	+2·85	1·01	22nd	22	21	0	0	2	1	—	—	0	11	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
3·88	−0·44	33	− 4	5·7	—	6·1	4·68	+2·34	0·75	22nd	23	17	0	—	2½	1	4	10	1	—	3	54	0	5	2	6	15	13	25	18	9	Newquay.
3·77	−0·46	32	− 4	6·2	—	5·7	4·50	+2·55	0·84	22nd	24	18	0	0	2	2	4	11	1	—	1	60	3	1	6	18	7	6	35	8	9	Woolac'mbe.
—	—	—	—	8·6	8·7	—	11·05	—	1·11	16th	25	25	7	0	6	1	0	20	5	—	? 0	36	0	0	6	6	3	9	42	9	18	Princetown.
—	—	—	—	6·6	7·0	6·0	8·08	—	0·95	29th	26	23	4	4	11	1	3	11	7	—	6	41	4	2	3	13	4	9	32	16	10	Sheepstor.
3·57	—	30	—	5·3	5·9	5·5	3·67	—	0·54	29th	20	15	1	0	2	2	1	8	0	3	5	45	0	0	2	7	6	13	29	24	12	Teignmouth
—	—	—	—	7·0	6·8	6·8	2·41	+0·19	0·36	19th	22	18	6	—	5	0	0	7	0	—	18	57	0	6	3	1	2	19	27	25	10	Malin Head.
—	—	—	—	9·0	9·3	8·4	6·64	+2·81	0·78	14th	26	25	0	—	7	0	0	23	0	—	10	55	3	3	1	0	11	17	27	28	3	Blacksod Pt.
3·98	+0·59	34	+ 5	7·5	—	6·2	5·05	+2·00	0·40	15th	24	23	8	0	9	0	1	9	0	17	1	6	31	3	0	2	9	17	22	6	3	Markree Cas.
—	—	—	—	7·1	6·0	5·0	2·74	+0·73	0·39	18th	22	19	2	—	2	0	0	4	0	—	0	39	0	6	2	4	6	24	29	15	7	Donaghadee.
3·59	+0·24	31	+ 2	8·1	—	6·1	3·05	+0·92	0·46	18th	19	19	3	2	2	0	1	13	0	10	0	29	8	4	1	4	6	19	40	9	2	Armagh.
—	—	—	—	—	—	—	2·92	+0·71	0·40	18th	23	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·8	—	5·1	5·03	—	0·60	2nd	22	20	8	5	7	2	0	3	0	—	1	35	3	4	5	3	9	19	20	18	12	Newtown-forbes.
4·31	—	37	—	5·9	—	4·2	2·14	—	0·29	2nd	20	15	2	0	2	0	4	4	1	13	0	6	10	0	3	3	10	3	17	33	14	Dublin T. C.
4·05	+0·05	35	+ 1	6·2	—	4·2	2·48	+0·45	0·48	2nd	21	18	2	0	1	0	5	6	0	15	0	29	10	2	0	7	7	11	28	22	6	Phœnix Pk.
—	—	—	—	5·2	—	3·8	2·16	+0·25	0·27	2nd	22	15	4	1	6	0	7	3	0	4	2	29	0	3	2	5	10	12	25	27	9	Dublin (City).
3·78	+0·20	32	+ 2	6·2	7·1	7·5	3·94	+1·55	0·53	2nd	25	19	6	—	0	0	0	3	0	21	0	25	0	2	1	0	18	18	27	21	6	Birr Castle.
3·41	−0·65	29	− 6	7·9	7·2	7·0	6·46	+2·22	1·00	27th	26	22	2	0	9	3	0	12	0	—	0	57	4	4	3	3	7	30	21	14	7	Valencia.
—	—	—	—	6·8	7·6	7·2	4·28	+1·21	0·74	1st	28	19	2	—	5	1	0	11	0	—	2	47	1	8	1	5	5	19	23	21	10	Roche's Pt.
3·74	—	32	—	7·3	7·9	5·1	3·77	—	0·38	27th	24	23	3	0	7	2	0	10	1	21	7	43	7	2	2	2	13	26	25	14	2	Limerick.
3·56	−0·99	30	− 9	6·9	7·0	6·5	3·29	+1·00	0·63	22nd	20	15	0	—	1	0	0	4	0	—	11	66	2	3	3	6	8	7	25	21	18	Scilly.
4·70	−0·11	40	− 1	7·9	7·0	5·5	2·39	+0·10	0·52	7th	19	11	0	—	2	0	1	10	0	—	3	51	0	2	3	10	10	9	38	14	7	Jersey.
4·54	−0·17	39	− 1	7·4	—	4·3	3·64	+1·21	1·11	16th	22	20	1	0	2	0	4	9	3	2	8	42	0	2	9	5	7	10	27	22	11	Guernsey.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, MARCH, 1913.

DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE.								Earth Temperature.		RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days.						BRIGHT SUNSHINE.			
			Means of		Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Difference from Average.	Most in a day		Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
			A Max.	B Min.			Max.	Day.	Min.	Day.					Amt.	Day.										
		Ft.	°	°	°		°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
p Baltasound ...	§	31	43·1	34·8	39·0	—	50	26th	23	19th	38·4	—	5·88	—	1·10	5th	25	10	5	3	1	—	2·62	—	23	—
a Fortrose		69	45·1	34·1	39·6	—	55	29, 30	29	18th	—	—	2·25	—	0·38	22nd	20	3	0	0	0	—	3·95	—	34	—
1. SCOTLAND, E.																										
a Crathes	§ §	140	46·9	33·4	40·2	—	55	30th	25	8th	38·3	39·1	4·46	—	0·98	22nd	20	9	1	0	1	15	4·20	—	36	—
p Stonehaven		86	48·2	34·2	41·2	—	54	3, 5, 26	28	8, 18	—	—	3·76	—	1·47	22nd	21	—	—	—	—	—	4·49	—	38	—
p Balruddery ...	§ §	276	47·2	32·8	40·0	—	55	30th	24	18th	—	—	4·30	—	0·71	28th	20	1	0	0	0	—	3·54	—	30	—
a Carnoustie		39	46·6	34·3	40·5	—	54	30th	26	18th	—	—	3·77	—	1·14	22nd	21	0	0	0	0	—	4·27	—	36	—
a St. Andrews		20	47·2	35·3	41·3	—	54	30, 31	27	18th	39·1	40·4	3·51	—	0·80	23rd	16	?	0	0	0	13	4·69	—	40	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	47·7	34·7	41·2	+ 1·0	56	4th	25	18th	—	—	3·38	+1·05	1·06	22nd	21	3	0	0	0	—	—	—	—	—
a Bellingham		848	44·8	31·4	38·1	—	54	29th	19	18th	—	—	4·39	—	1·08	22nd	26	4	4	0	1	—	—	—	—	—
a Tynemouth		90	47·2	35·2	41·2	—	54	4, 5, 30	25	18, 19	39·8	41·3	2·35	—	0·57	22nd	18	6	1	0	1	11	3·85	—	33	—
a Chopwellwood		445	46·9	33·5	40·2	—	56	30th	21	18th	—	—	4·00	—	0·96	22nd	24	3	1	0	0	23	3·95	—	34	—
a Ushaw		599	46·1	33·5	39·8	—	54	30th	22	18th	—	—	3·13	—	0·72	22nd	24	7	1	0	3	—	—	—	—	—
a Ampleforth		349	47·0	34·8	40·9	—	54	4th	24	18th	—	—	1·91	—	0·31	29th	20	4	1	0	0	—	—	—	—	—
a West Witton		605	45·4	33·8	39·6	—	53	31st	24	18th	38·8	39·3	7·67	—	0·98	2nd	27	11	9	0	3	13	—	—	—	—
a Fulbeck	¶	180	48·6	36·1	42·4	+ 0·9	56	6th	20	18th	—	—	3·22	+1·78	0·68	17th	20	1	0	1	0	20	—	—	—	—
a Rauceby	§	124	49·4	35·6	42·5	—	56	3, 4	24	18th	42·0	42·9	3·28	+1·78	0·77	16th	21	2	1	1	0	19	3·74	—	32	—
3. ENGLAND, E.																										
a Norwich		93	50·5	37·3	43·9	—	56	30th	28	12th	41·5	—	2·32	—	0·30	16th	21	2	3	1	0	14	3·42	—	29	—
a Peterborough (Eye) ...		16	50·6	36·4	43·5	—	56	4, 6, 23	25	18th	—	—	2·24	—	0·63	16th	20	3	2	2	0	—	—	—	—	—
a Ridgewell		269	50·1	36·0	43·1	—	57	6th	25	12th	—	—	1·41	—	0·16	16th	22	2	3	5	1	—	—	—	—	—
a Felixstowe		19	49·5	39·0	44·3	+ 2·5	56	5th	29	18th	—	—	2·02	—	0·32	31st	24	0	0	2	2	—	4·06	—	34	—
a Walton-on-Naze		68	50·4	38·1	44·3	—	56	5, 6, 29	29	18, 19	—	—	2·06	—	0·30	31st	22	—	—	—	—	17	3·65	—	31	—
a Halstead		139	51·4	36·8	44·1	—	58	5th	26	25th	—	—	1·81	—	0·32	15th	19	2	1	1	0	—	—	—	—	—
a Chelmsford		134	51·9	36·5	44·2	—	59	6th	25	12th	—	—	1·71	—	0·28	15th	21	1	0	1	0	—	—	—	—	—
p Hemel Hempstead ...		535	49·2	36·2	42·7	—	54	4, 5, 6	25	18th	—	—	2·40	—	0·32	16th	23	2	0	1	0	24	—	—	—	—
a Rothamsted ...	¶§	424	51·1	36·4	43·8	+ 2·7	57	5th	25	12, 18	—	—	2·23	+0·43	0·33	16th	24	0	0	2	0	—	3·32	−0·45	28	− 4
a Shoeburyness		13	50·5	39·5	45·0	+ 2·5	56	5, 6	29	18th	—	—	1·65	+0·49	0·25	21st	22	—	—	—	—	—	—	—	—	—
a Southend		90	50·3	39·6	45·0	—	55	6, 30	30	18th	44·3	—	1·76	+0·44	0·23	16th	20	1	0	1	0	16	3·42	—	29	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	46·3	34·5	40·4	+ 0·4	55	4th	23	18th	39·5	40·7	3·62	+1·50	0·42	15th	26	3	0	0	0	14	2·81	—	24	—
a Bradford		439	46·9	35·8	41·4	—	56	4th	26	18th	39·2	40·7	4·44	—	0·55	15th	25	0	0	0	0	11	3·03	—	26	—
a Meltham		513	46·8	34·9	40·9	—	55	4, 31	24	18th	39·6	—	7·99	—	0·97	22nd	28	0	1	1	0	13	—	—	—	—
a Cheadle	¶	646	48·0	34·7	41·4	+ 1·1	54	6th	23	17th	—	—	4·53	+2·31	0·72	22nd	19	—	—	—	—	24	—	—	—	—
a Wellington		207	50·2	36·1	43·2	—	57	29th	27	18th	—	—	4·16	—	0·78	22nd	20	2	1	0	0	—	—	—	—	—
a Bawtry	¶	65	49·6	35·9	42·8	+ 1·3	57	4th	25	18th	—	—	2·25	+0·75	0·35	14th	19	1	0	0	0	—	—	—	—	—
a Matlock		636	48·4	34·9	41·7	—	54	4, 6, 31	22	18th	—	—	4·98	—	0·67	22nd	24	6	1	0	0	—	2·76	—	23	—
a Belper		222	49·4	35·2	42·3	—	55	3, 6	24	18th	—	—	3·92	—	0·59	22nd	21	1	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...		280	48·4	35·2	41·8	—	55	4th	24	18th	—	—	4·26	+2·01	0·64	22nd	21	2	0	0	1	—	—	—	—	—
a Mayfield (Staffs) ...		374	48·3	34·2	41·3	—	54	4th	21	18th	—	—	4·54	—	0·78	22nd	24	5	3	0	0	20	3·28	—	28	—
a Strelley		377	48·8	35·8	42·3	+ 1·3	55	3, 4	24	18th	41·4	—	3·33	+1·60	0·46	14th	20	3	1	0	0	—	2·95	−0·40	25	− 4
a Kingston-on-Soar... ...		125	49·4	35·4	42·4	—	55	6th	24	12, 18	41·5	—	3·00	—	0·48	15th	20	1	0	0	1	—	—	—	—	—
a Sparkhill		425	50·3	34·0	42·2	—	57	31st	23	18th	—	—	5·06	—	0·82	22nd	22	3	7	1	1	19	—	—	—	—
p Rugby		379	49·6	35·0	42·3	+ 0·9	56	6th	24	18th	—	—	3·96	—	1·00	16th	20	1	2	1	0	14	—	—	—	—
a Raunds	¶	204	51·3	35·5	43·4	+ 1·6	56	5, 11, 23	24	18th	41·5	43·8	3·14	—	0·77	16th	19	3	1	1	0	15	3·36	—	29	—
a Malvern		520	49·2	37·0	43·1	—	54	5, 11, 31	26	18th	—	—	5·05	—	0·80	16th	20	—	—	—	—	—	3·58	—	30	—
a Ross...		214	51·1	36·0	43·6	—	58	31st	27	18th	—	—	5·31	—	0·73	15th	19	1	0	0	0	—	—	—	—	—
a Hereford	¶	291	50·3	35·7	43·0	+ 0·7	55	11,23,27	25	18th	—	—	5·32	+3·66	0·72	16th	20	1	2	0	0	9	—	—	—	—
a Leamington		165	50·4	37·0	43·7	—	55	4, 11	27	12, 18	43·3	47·2	3·37	—	0·79	16th	19	1	1	0	0	15	2·85	—	24	—
a Cirencester... ...	¶§	446	49·4	34·6	42·0	+ 1·1	55	14th	24	18th	42·1	43·2	3·76	+1·75	0·46	15th	24	—	—	—	—	7	3·73	−0·01	32	0
a High Wycombe ...		249	50·8	37·2	44·0	—	56	5, 6	27	18th	—	—	2·59	—	0·40	16th	21	2	2	1	0	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	50·5	35·6	43·1	—	55	6, 11, 31	25	12th	—	—	3·63	—	0·46	29th	20	1	0	1	1	10	—	—	—	—
a Wokingham		216	51·5	33·7	42·6	—	58	6th	21	12, 18	—	—	2·04	—	0·36	16th	16	0	0	1	1	—	—	—	—	—
a Marlborough ...	¶§	424	49·9	35·6	42·8	+ 1·7	55	30th	24	18th	—	46·1	3·67	+1·45	0·68	16th	19	—	—	—	—	11	—	—	—	—
a Bucklebury		409	49·8	36·7	43·3	—	56	6th	25	18th	—	—	2·95	—	0·50	16th	24	1	0	1	1	22	—	—	—	—
a New Malden		39	51·9	37·7	44·8	—	58	5, 6	26	25th	42·9	43·3	2·46	—	0·33	16th	22	2	1	3	2	13	2·84	—	24	—
a Croydon (Addington) ...		472	49·3	37·9	43·6	—	56	5th	28	18th	—	—	3·07	—	0·51	20th	25	2	0	2	1	—	—	—	—	—
a Wallington		144	51·1	37·6	44·4	—	57	6th	27	18th	43·0	43·8	3·05	—	0·41	20th	26	2	3	4	1	7	—	—	—	—
a Woking		180	52·1	36·6	44·4	—	59	5, 6	25	18th	42·9	—	2·90	—	0·37	15, 20	20	—	—	—	—	6	—	—	—	—
a Swarraton	¶	310	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Margate	¶§	35	50·0	40·7	45·4	+ 3·0	55	21st	33	9th	44·7	45·8	1·27	−0·16	0·18	23rd	17	0	0	1	0	0	3·76	−0·18	32	− 1
a Aldershot		231	50·2	36·7	43·5	—	56	5th	25	12th	—	—	3·43	—	0·44	20th	23	3	2	2	2	—	—	—	—	—
a Wisley	¶§	150	51·3	37·5	44·4	+ 2·4	57	6th	27	25th	43·2	43·9	2·66	—	0·36	28th	20	1	0	1	1	12	3·29	—	28	—
a Basingstoke		289	50·5	37·2	43·9	—	57	6th	27	12th	42·7	43·8	3·33	—	0·50	15th	21	2	2	2	2	6	—	—	—	—
a Sevenoaks		509	49·0	37·6	43·3	—	55	5, 22, 29	28	18th	42·4	43·6	2·93	—	0·48	16th	25	1	0	1	0	8	—	—	—	—
a Tunbridge Wells ...	¶§	419	49·7	37·1	43·4	+ 1·8	56	13, 29	27	18th	42·7	—	3·52	+1·48	0·65	16th	24	2	5	3	0	11	3·49	−0·45	30	− 3
a Matfield		319	50·2	38·0	44·1	—	58	29th	28	18th	—	—	3·09	—	0·63	16th	24	—	—	—	—	12	—	—	—	—
p Folkestone...		121	49·3	40·9	45·1	—	55	11th	31	18th	—	44·8	2·14	+0·31	0·44	31st	20	0	0	1	0	—	3·69	—	31	—
v Bexhill		27	50·0	41·6	45·8	—	53	13,26,30	31	18th	46·4	—	2·13	—	0·43	16th	25	1	0	0	0	4	3·61	—	31	—
a Worthing	§	36	50·5	40·5	45·5	+ 3·3	54	13, 29	29	18th	45·0	45·7	3·10	+1·43	0·48	15th	22	0	1	0	0	4	3·92	—	33	—
a Bognor		20	49·6	41·0	45·3	—	52	11,19,29	30	18th	—	46·5	3·18	—	0·47	16th	22	1	2	1	0	—	3·87	—	33	—
a Selsey Bill		21	50·2	40·4	45·3	—	53	21,27,31	29	18th	—	—	2·84	—	0·43	16th	22	0	0	2	0	7	3·79	—	32	—
a Totland Bay		140	49·9	40·3	45·1	+ 2·6	53	5, 26, 30	30	18th	—	—	2·91	+1·17	0·53	16th	20	0	1	3	0	4	3·92	—	33	—
a Sandown		20	52·6	41·5	47·1	—	59	30th	31	18th	—	—	3·02	—	0·55	16th	20	—	—	—	—	—	4·13	—	35	—
p Bournemouth		145	51·5	39·9	45·7	—	58	30th	30	18th	43·9	44·5	2·95	—	0·46	16th	20	—	—	—	—	—	3·90	—	33	—

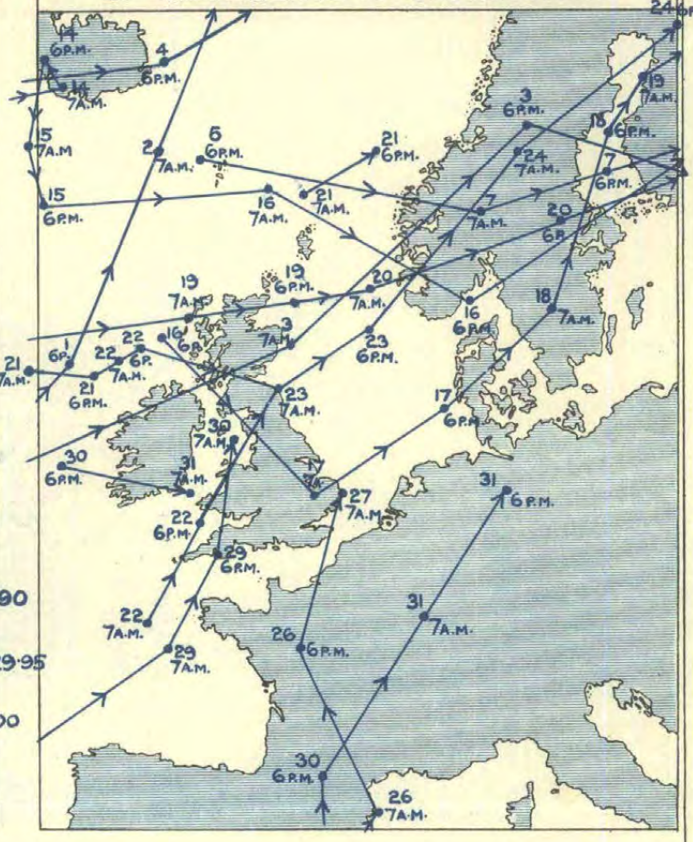
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in March, based on 35 years' observations, 1871–1905.



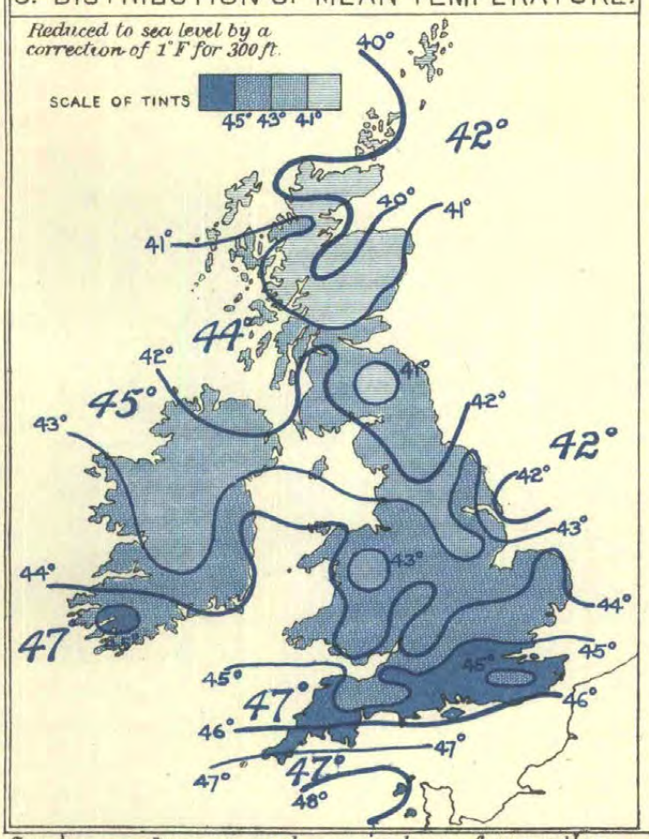
WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* 10 10 10 — LIGHT MODERATE STRONG — 30 Obsns. = 1 inch

2. MOVEMENTS OF DEPRESSIONS.



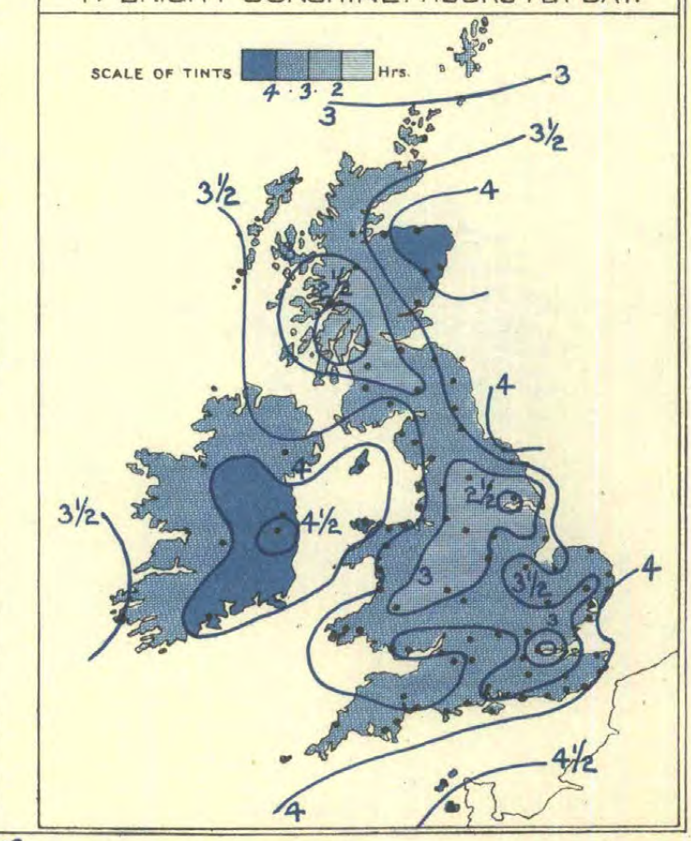
3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

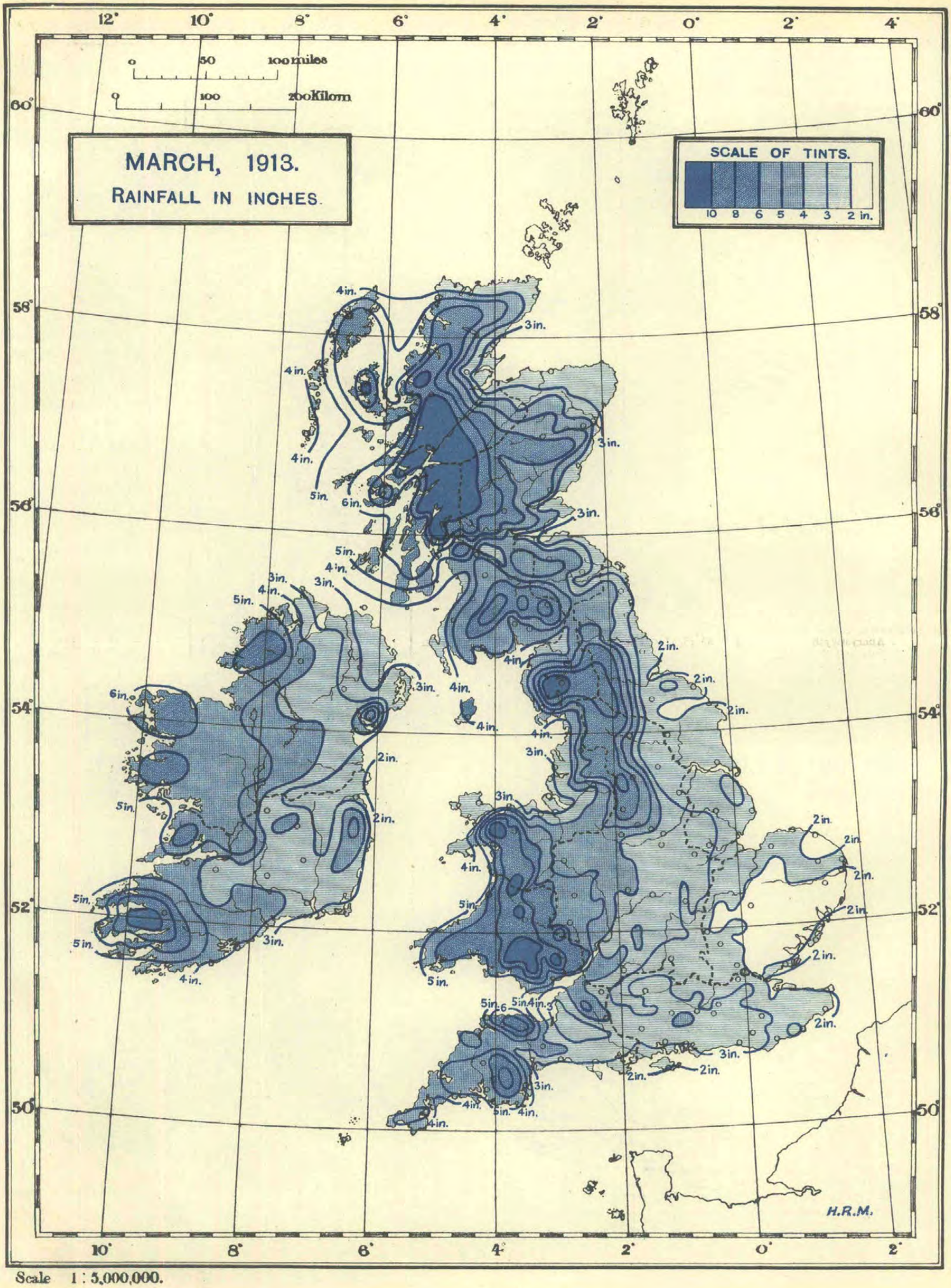


Sea temperatures are shown in large figures thus 44°

4. BRIGHT SUNSHINE. HOURS PER DAY.



ERRATUM:—In Chart I., p. xxv, Barometer and Wind at 7 a.m. for February, 1913, read 29·90 for 29·00 and add 0·9 to the values from 29·05 upwards. The numbers for the normals are correct as printed.



Scale 1 : 5,000,000.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, MARCH, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	51·6	36·8	44·2	—	59	6th	27	12, 18	—	43·4	1·91	—	0·30	16th	19	2	1	1	0	13	2·91	—	25	—
a Golders Green	279	50·7	37·7	44·2	—	57	3, 6	28	18th	—	—	2·10	—	0·31	16th	20	2	1	2	1	—	—	—	—	—
p Hampstead (Redington Rd.)	375	50·0	38·3	44·2	—	58	6th	27	18th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon ...	51	52·5	38·0	45·3	—	59	5, 6, 22	27	18th	—	—	2·76	—	0·36	15th	21	3	1	3	2	9	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	45·7	36·1	40·9	—	56	29th	25	18th	—	—	7·25	—	0·91	2nd	25	5	3	3	0	5	2·30	—	20	—
a Ardnadam	64	46·9	35·3	41·1	—	58	30th	22	18th	—	—	11·24	—	1·33	18th	23	5	4	1	0	13	—	—	—	—
a Thorntonhall (Lanarkshire)	440	45·1	33·4	39·3	—	53	30th	22	18th	—	—	5·25	—	0·54	22nd	24	6	1	1	0	12	3·22	—	27	—
a Kilmarnock ... ¶	90	47·6	35·3	41·5	+ 0·3	55	29th	21	18th	—	—	3·72	—	0·42	18th	22	4	1	1	0	—	3·16	—	27	—
p Ruthwell ... ... §	67	47·5	34·8	41·2	—	56	29th	22	18th	—	—	4·27	—	0·66	22nd	24	2	3	2	0	—	3·30	—	28	—
7. ENGLAND, N.W.																									
a Scaleby	111	48·3	34·3	41·3	—	57	31st	22	18th	—	—	3·57	—	0·66	22nd	27	5	1	3	0	—	—	—	—	—
a Seathwaite	422	46·3	34·6	40·5	—	56	29th	23	18th	—	—	16·22	—	2·20	3rd	25	5	5	0	0	—	—	—	—	—
a Carnforth	174	47·3	35·6	41·5	—	56	31st	23	18th	—	—	4·53	—	0·66	13th	22	2	7	0	0	9	3·14	—	27	—
a Lancaster	311	47·2	36·8	42·0	—	57	31st	26	18th	42·3	45·2	4·16	—	0·67	13th	26	1	3	0	0	27	2·85	—	24	—
a Hutton	81	48·3	35·3	41·8	—	56	31st	21	18th	41·8	42·8	3·90	—	0·62	13th	25	1	5	0	0	14	3·59	—	31	—
a Burnley	459	46·2	35·1	40·7	—	54	4, 31	21	18th	39·5	41·2	6·08	—	0·65	18th	25	—	—	—	—	9	2·95	—	25	—
a Leyland	124	48·3	35·9	42·2	—	55	4, 31	21	18th	—	—	3·96	—	0·59	13th	24	4	7	0	0	8	3·07	—	26	—
a Bolton	341	47·5	36·0	41·8	—	54	4th	26	18th	40·4	41·3	4·61	—	0·70	22nd	27	3	3	1	0	12	1·82	—	15	—
a Blundellsands	34	48·9	37·8	43·4	—	56	31st	26	18th	—	—	3·00	—	0·66	22nd	25	1	5	1	0	4	—	—	—	—
a Hoylake ... ... §	30	50·0	37·8	43·9	—	56	29, 31	29	18th	—	—	2·79	—	0·60	22nd	23	0	1	0	0	9	4·07	—	34	—
a Rhyl	30	49·4	37·4	43·4	—	55	29th	28	18th	—	—	2·56	+0·91	0·57	22nd	22	—	—	—	—	7	3·97	—	34	—
a Colwyn Bay	82	49·7	39·3	44·5	—	56	4th	28	18th	—	—	3·10	—	0·73	22nd	19	0	1	0	0	—	4·53	—	39	—
a Llanberis (Pen-y-gwryd)	913	44·7	33·9	39·3	—	52	4, 27	23	18th	—	—	18·98	—	3·03	2nd	25	3	5	0	2	—	—	—	—	—
a Macclesfield	500	48·1	35·3	41·7	—	54	4, 31	22	18th	—	—	4·41	—	0·88	22nd	23	4	2	0	0	—	—	—	—	—
a Northwich	117	50·3	36·7	43·5	—	57	3, 31	25	18th	—	—	3·82	—	0·75	22nd	22	4	5	0	2	—	—	—	—	—
a Hawarden Bridge... ¶	22	50·3	36·9	43·6	+ 0·7	56	4, 31	30	18, 25	—	—	3·37	+1·90	0·65	22nd	24	—	—	—	—	—	—	—	—	—
a Ruthin	449	48·0	36·7	42·4	—	54	27th	27	18th	—	—	4·25	—	1·00	22nd	25	6	4	0	0	—	—	—	—	—
a St. Asaph	479	48·2	36·5	42·4	—	55	27, 29	27	18th	—	—	2·41	—	0·62	22nd	21	1	1	0	0	21	—	—	—	—
a Welshpool	255	50·7	35·7	43·2	—	56	5, 27	26	18th	—	—	5·44	—	0·88	22nd	25	2	2	0	2	—	—	—	—	—
p Aberdovey ... ... §	22	49·2	40·5	44·9	—	56	27th	32	18th	—	—	4·85	—	1·50	22nd	25	1	5	3	0	—	3·87	—	33	—
8. ENGLAND, S.W.																									
a Aberystwyth ... §	59	48·3	40·2	44·3	—	55	27th	31	18th	—	—	4·84	—	1·05	22nd	24	1	6	2	0	—	3·59	—	30	—
a Gwernyfed	374	49·3	33·6	41·5	—	54	27, 31	23	1st	—	—	5·88	—	0·90	22nd	23	1	0	2	2	—	—	—	—	—
a Haverfordwest	93	49·8	38·9	44·4	—	55	19th	30	12th	—	—	6·18	—	0·94	22nd	26	1	7	1	1	—	4·09	—	35	—
a Swansea	24	50·0	37·8	43·9	—	55	30th	25	25th	45·0	47·2	7·81	—	1·33	22nd	22	0	0	0	0	11	3·25	—	28	—
a Clifton ... ... ¶	229	51·3	38·1	44·7	+ 2·3	56	31st	29	18th	—	—	4·21	+1·85	0·71	22nd	21	—	—	—	—	7	3·80	—	32	—
a Weston-Super-Mare ...	29	50·6	38·4	44·5	—	56	31st	30	18th	—	—	3·00	—	0·73	22nd	20	0	2	0	1	13	3·34	—	28	—
a Minehead	104	52·3	38·6	45·5	—	58	6th	29	18th	—	—	4·42	—	0·80	22nd	19	0	0	0	0	8	3·49	—	30	—
a Ilfracombe	24	50·7	41·0	45·9	—	55	4, 27, 31	33	18th	45·4	47·5	5·54	—	0·96	22nd	24	1	1	1	3	1	3·32	—	28	—
a Arlington... ... ¶	613	48·2	36·7	42·5	+ 1·3	53	31st	28	18th	—	—	6·12	+2·41	0·97	22nd	20	0	1	0	0	—	—	—	—	—
a Cullompton ... ¶§	202	51·7	36·1	43·9	+ 0·2	57	6th	27	18th	44·4	—	4·16	+1·74	0·64	22nd	24	3	0	0	1	14	3·11	−0·79	26	− 7
a Rousdon	515	48·8	37·7	43·3	+ 1·4	56	30th	28	18th	44·1	44·8	2·88	+0·65	0·48	29th	20	3	3	0	4	8	3·41	—	29	—
a Sidmouth	147	51·1	39·1	45·1	—	57	30th	28	18th	—	—	3·53	—	0·65	29th	21	0	2	0	1	13	—	—	—	—
a Killerton	160	51·9	35·2	43·6	—	57	30th	25	12th	—	—	3·29	—	0·68	22nd	18	1	1	0	0	16	—	—	—	—
a Shaftesbury ... ¶	722	48·3	35·7	42·0	+ 1·1	55	30th	27	18th	42·7	43·9	2·77	+0·59	0·47	29th	20	—	—	—	—	—	—	—	—	—
a Dorchester...	314	49·7	37·9	43·8	—	56	30th	28	18th	—	—	3·13	—	0·47	16th	20	1	1	1	0	—	3·59	—	30	—
a Weymouth	21	51·2	40·5	45·9	—	57	30th	30	18th	—	—	2·22	—	0·35	16th	17	0	1	1	0	—	3·64	—	31	—
a Torquay	12	51·5	40·9	46·2	—	59	30th	32	18th	—	—	3·74	—	0·61	29th	19	1	1	0	0	6	3·52	−1·00	30	− 8
p Paignton	11	51·2	38·2	44·7	—	59	30th	28	18th	—	—	4·30	—	0·64	29th	20	0	2	0	0	12	3·24	—	27	—
a Salcombe	300	50·8	40·1	45·5	—	54	5, 13, 31	31	18th	—	—	5·21	—	1·09	29th	19	0	2	1	1	—	3·93	—	33	—
a Tavistock	374	49·9	37·7	43·8	—	54	30th	27	18th	—	—	5·59	—	0·64	18th	25	4	11	3	0	12	—	—	—	—
a Ashburton	583	50·9	38·6	44·8	—	58	30th	33	17th	—	—	7·23	+3·17	0·88	29th	22	—	—	—	—	—	—	—	—	—
a Fowey	51	51·7	41·6	46·7	—	58	30th	33	18th	—	—	3·63	—	0·56	14th	19	1	1	0	0	—	4·07	—	34	—
a Redruth	397	49·3	39·8	44·6	—	53	5, 27, 30	31	18th	—	—	5·52	—	0·77	22nd	24	0	7	3	0	—	—	—	—	—
a Penzance	54	52·4	43·0	47·7	—	58	30th	34	18th	—	—	4·60	—	0·64	15th	25	0	2	0	0	—	3·79	—	32	—
9. IRELAND, N.																									
p Dunfanaghy	54	47·4	36·2	41·8	—	54	4th	29	18th	—	—	5·07	—	0·67	6, 14	25	6	9	2	0	—	—	—	—	—
a Lisburn	207	50·8	33·6	42·2	—	60	30th	27	12, 17	—	—	3·04	—	0·43	18th	20	4	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin) ...	67	49·8	36·0	42·9	+ 0·5	58	4th	25	18th	—	—	2·37	+0·32	0·36	2nd	23	2	5	0	0	21	—	—	—	—
a Kingstown...	42	50·1	37·9	44·0	—	58	5th	27	18th	—	—	1·67	—	0·25	6, 15	14	—	—	—	—	—	4·34	—	37	—
p Clongowes Wood Col. ...	245	49·5	33·9	41·7	—	55	4, 30	22	13th	—	—	2·21	—	0·50	2nd	21	3	1	0	2	13	4·56	—	39	—
a Mountmellick	239	47·5	35·0	41·3	—	55	29, 30	25	18th	—	—	4·71	—	0·74	2nd	27	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow...	256	48·3	37·5	42·9	—	55	6, 30	32	15,16,18	—	—	2·73	—	0·42	6th	21	2	0	0	0	—	—	—	—	—
a Kilkenny ... ... ¶	195	49·9	35·0	42·5	− 0·7	56	30th	23	18th	—	—	3·41	+1·24	0·40	1st	28	4	0	0	0	—	—	—	—	—
a Cahir ... ... ¶	199	49·8	35·6	42·7	− 0·6	56	30th	26	18th	—	—	4·34	—	0·60	15th	27	3	3	2	0	—	—	—	—	—
a Wexford	99	49·0	38·2	43·6	—	55	30th	29	18th	—	—	3·41	—	0·50	1st	19	0	6	0	1	—	—	—	—	—
a Waterford ... ... ¶	100	50·0	37·0	43·5	+ 0·4	55	30th	26	18th	—	—	4·04	+1·31	0·70	1st	25	0	4	1	0	—	—	—	—	—
p Waterford Trg. Coll. ...	20	50·0	37·3	43·7	—	55	30th	27	18th	—	—	3·59	—	0·82	1st	23	0	1	0	0	—	—	—	—	—
a Foynes ... ... ¶	108	49·7	35·8	42·8	− 0·8	54	3, 25, 30	30	18th	—	—	4·98	+2·07	0·61	7th	27	5	2	3	0	—	—	—	—	—
a Killarney ... ... ¶	174	51·6	38·3	45·0	+ 0·3	58	29th	31	18th	—	—	6·39	+1·72	0·90	2nd	28	—	—	—	—	—	—	—	—	—
a Ballinacurra ... §	24	49·8	36·8	43·3	—	54	4th	28	18th	—	—	4·08	—	0·77	1st	23	2	3	0	1	—	4·17	—	35	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	52·6	43·5	48·1	+ 3·1	57	12th	35	18th	—	—	3·53	+1·10	0·98	16th	20	0	1	0	0	—	4·66	−0·08	40	0

DISTRICT VALUES—MARCH, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0-10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	57	21	45·0	34·2	39·4	+0·1	39·5	−0·2	—	—	6·23	+1·81	24	3·06	−0·02	26	0	7·7	7·2	6·8	30·25	8th	28·32	19th
Eastern.																								
1. SCOTLAND, EAST ...	57	15	45·8	33·2	39·3	0·0	38·1	+0·3	39·6	+0·7	3·85	+1·55	23	4·00	+0·58	34	+ 5	6·9	6·7	7·0	30·31	8th	28·29	19th
2. ENGLAND, N.E. ...	57	19	47·9	35·6	41·6	+1·0	40·0	+1·0	41·4	+1·1	2·51	+0·77	21	3·67	−0·32	31	− 3	6·5	—	6·6	30·39	9th	28·50	19th
3. ENGLAND, EAST ...	59	24	50·3	37·7	43·8	+2·8	42·8	+2·2	44·1	+1·7	2·10	+0·55	20	3·41	−0·59	29	− 5	7·3	7·1	6·0	30·55	9th	28·81	19th
4. MIDLAND COUNTIES ...	58	21	49·7	35·7	42·5	+1·4	41·0	+1·3	42·6	+1·2	3·64	+1·91	20	3·25	−0·32	28	− 2	6·9	7·2	5·9	30·54	9th	28·79	19th
5. ENGLAND, S.E. ...	59	21	50·4	39·1	44·6	+2·4	43·6	+2·5	44·9	+2·1	2·64	+0·83	21	3·54	−0·42	30	− 4	7·1	7·7	5·8	30·58	9th	28·97	19th
Western.																								
6. SCOTLAND, WEST ...	58	16	47·0	36·1	41·5	+0·7	40·1	—	41·7	+0·3	4·70	+1·18	23	3·46	−0·11	29	− 2	7·2	—	6·6	30·32	8th	28·42	19th
7. ENGLAND, N.W. ...	57	21	48·1	36·7	42·4	+0·9	41·3	+1·1	42·7	+1·2	4·34	+1·94	24	3·62	+0·13	31	+ 1	6·9	6·9	6·8	30·47	8th	28·72	19th
8. ENGLAND, S.W. ...	59	23	49·6	38·2	43·7	+1·0	44·1	+1·6	45·2	+1·3	4·86	+2·15	22	3·52	−0·49	30	− 4	6·9	7·3	5·5	30·63	8th	28·88	28th
9. IRELAND, NORTH ...	60	25	48·5	35·6	42·0	+0·1	41·6	−0·2	43·5	0·0	3·97	+1·25	23	3·79	+0·37	32	+ 3	7·2	7·3	6·4	30·41	8th	28·42	19th
10. IRELAND, SOUTH ...	58	21	49·8	37·0	43·2	−0·3	43·2	+0·7	44·3	+0·6	4·44	+1·46	26	3·85	−0·08	33	0	6·5	7·5	5·6	30·56	8th	28·80	19th
11. ENGLISH CHANNEL ...	57	34	52·2	42·6	47·3	+2·1	46·9	+2·5	47·1	+1·7	3·07	+0·82	20	4·31	− 0·53	37	− 4	7·4	7·0	5·4	30·68	9th	28·99	28th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Ramsgate ...	3·97	—	34	—
Broadstairs ...	4·05	—	34	—
Littlestone§ ...	3·87	—	33	—
Hove	3·91	—	33	—
Westbourne ...	3·68	—	31	—
LONDON.	hr.		%	
Bunhill Row ...	2·01	−0·25	17	− 2
Plumstead ...	2·15	—	18	—
8. ENGLAND, S.W.				
Tenby	3·57	−0·91	30	− 8
Port Talbot ...	3·05	—	26	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	2·04	—	0·37	31st	23
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	5·51	—	0·80	16th	21
Forest of Dean (900 ft.)	5·76	—	0·74	16th	20

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type. At other stations the calculations are made from the monthly means of the dry and wet bulb readings.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except in the cases of rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Wind Summaries.—The results given under wind direction, and the number of observations of calms and of fresh or strong wind, are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Glasgow, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. (At Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Notes in Monthly Weather Reports for 1908.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Oxford, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—The stations used in the Weekly Weather Report for the computation of "district values" of rainfall and temperature are distinguished by the sign ¶, those used for the computation of "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, duration of bright sunshine, number of rain days and amount of rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The extreme values of the various elements in each district are printed in distinctive type. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the case of the corresponding values published in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ⊱ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, April 24, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. IV. APRIL, 1913. [*Price 6d.*

DULL AND WET.

Pressure, Winds and Weather.—The unsettled type of pressure distribution which prevailed throughout March, was maintained into the opening days of April, but the disturbances in existence in our immediate neighbourhood were shallow, so that the first two days of the month were of a much quieter character than their predecessors. The remaining twenty-eight days were divided into two well-marked periods—of high and of low pressure respectively. In the night of the 2nd the situation changed, and on the following morning the last of the depressions was passing down to Northern Spain, a decided increase of pressure was in progress, and already there were anticyclones centred over Denmark and off the north of Iceland. By the evening of the 3rd these systems had coalesced, their common centre extending from Southern Norway westward beyond Iceland. From the 3rd to the 10th the British Isles were between the high pressure area working westward beyond the north of Scotland, then southward outside the western coasts and a low pressure system which moved slowly from Northern Spain across Southern and Central Europe to Russia. Under these circumstances this country experienced a strongly marked Easterly to Northerly type of conditions. With the rapid rise of the barometer at the commencement the anticyclone quickly reached its maximum intensity, the highest pressure being recorded on the 4th off the north of Scotland, the late evening reading at Lerwick being 30·64 in., at Wick, 30·59 in. These were the highest values reported during the month at the home stations. Atlantic depressions of this period kept far to the southward, moving south-eastward and eastward from the Newfoundland Bank past the Azores and Madeira for the Canaries and North Africa.

The end of the high pressure period was brought about in a more than usually interesting manner. Spitzbergen reports showed that a depression left that neighbourhood on the morning of the 9th, passing down across Lapland and Finland to Riga by the evening of the 11th, the anticyclone at the same time moving further out over the Atlantic. Another depression appeared between Greenland and Iceland on the evening of the 10th, and travelling rapidly on a south-easterly course across Britain reached North Italy by the evening of the 12th. The high pressure system now drifted southward to its normal position along the middle belt of the Atlantic, and thenceforward the northern portion of the ocean was occupied by cyclonic disturbances of considerable depth, the barometer sinking below 28·5 in. on the 15th and 16th in the neighbourhood of Iceland, and on the 26th off the north-west of Ireland, in about 56°N., 11°W. Most of these disturbances followed very erratic paths out at sea, sometimes, as was the case in March, moving due west over hundreds of miles. The lowest pressure on shore, 28·53 in., occurred at Malin Head on the 26th, in the depression already referred to. Very few centres crossed this country, the weather being influenced mainly by the eastern portions of the low pressure areas lying out on the Atlantic.

The mean pressure of the month was only a little below the normal. The results indicate an area of minimum pressure over Iceland, 29·55 in. at the Vestmanna, off the south coast. Thence the values increase to 29·74 in. at Castlebay, and 29·89 in. at Jersey, to 30·10 in. at Moscow, and to 30·26 in. at Horta, Azores. The distribution was in fair accordance with the normal, indicating the general prevalence of a Southerly to Westerly type, though, as already noted, there was a distinct period of North-Easterly conditions

During the period of high pressure, the only instances of gale force at the telegraphic reporting stations occurred at Holyhead on the 5th, and at Dungeness on the following day; at Holyhead the anemometer registered gusts at the rate of 57 miles per hour. From the 4th to the 8th, however, owing to the existence of a disturbance over the western portion of the Continent bringing about a considerable steepening of the North-Easterly gradient, strong or high winds were felt daily over nearly the whole of England. As a rule this anticyclonic spell was marked by dry weather in most parts of the kingdom, more especially so in the north and west. Many places had seven or more rainless days in succession, St. Andrew's and Cahir, nine days, and at Ballinacurra there was only one trifling shower in eleven days. South-Eastern England was outside the dry area, some considerable rainfalls being registered, more than an inch at Sandgate on the third.

A change of a somewhat remarkable character resulted from the arrival of the Greenland disturbance on the 11th. Its progress was unusually rapid, so that the Southerly wind on its eastern side was of very brief duration, but it was surprisingly cold, and brought with it a snowstorm which was nearly as heavy as the heaviest experienced during the past winter. Several localities reported from three to six inches of snow lying next morning, melting quickly. At Norwich and Felixstowe, the water measured was $\frac{3}{4}$ in., nearly all melted snow. On the slopes of Snowdon the precipitation was about $1\frac{1}{4}$ in. of water.

The most disturbed period was associated with the irregular movements of the very deep cyclone which was nearing Iceland on the 14th, but did not pass the Orkneys and Shetland until the 19th, and reached Southern Norway on the next day. From the 15th to the 20th a Southerly to Westerly gale or strong gale was felt daily on various sections of our coasts, the highest gust velocities recorded being 61 miles per hour at Quilty and 64 at Pendennis Castle on the 16th, and 58 miles at Southport and 60 at Spurn Head on the 19th. Very wet weather also became general, small falls of snow in places. At Seathwaite the rainfall on the 14th amounted to 3·6 in., and on the following day there were many falls of an inch or more in England and Wales, up to 3·5 in. at Llanberis. Thunderstorms, with hail, sleet or snow occurred at a number of stations on the 17th.

With the approach of an equally deep and irregularly moving depression towards our western coasts on the 25th the weather was again very unsettled and remained so to the close of the month, a gale to a strong gale from North-West, South-West or South-East being reported from the 26th to the 29th, the gust velocities on the 26th ranging up to 61 miles an hour at Plymouth, 68 at Quilty, and 72 at Pendennis, the last mentioned station registering 59 miles of wind in an hour. There were many heavy falls of rain, the measurements for the 26th ranging up to 1·9 in. at Lampeter, 2·1 in. at Ashburton, 2·2 in. at Seathwaite, and 2·8 at Princetown. Thunder and hailstorms visited various parts of Ireland on the 27th and 28th, and in the evening of the following day they were common throughout England, very severe and destructive in a number of instances, the lightning being described as extraordinarily vivid. The storms were practically simultaneous, occurring in most localities between the hours of 7 and 11 p.m. The accompanying rainfall was fairly heavy. Several parts of England and Ireland had a similar experience on the 30th.

During the greater portion of the month the temperature was fairly uniform all over the kingdom, and the daily range was small. The few exceptions were rather striking. On the 11th and 12th the day maxima were unusually low, at numerous stations below 40°, as low as 35° at Thorntonhall, Bawtry and Garforth, 34° at Aberdeen and Baltasound, and 33° at Lerwick, Glencarron, West Linton and Harrogate. This was succeeded by a sharp frost in the night of the 12th, with many shade minima of 25° and under, 19° at Wokingham, 18° at Balmoral. In the last week the day readings rose appreciably above the normal, the 23rd, 24th, 27th and 29th having a considerable number of maxima above 65°, Isleworth, Wisley, Woking and Ross touching 69°, Wimbledon, Canterbury and Margate 70°; there were a few minima of 51° or 52°, Basingstoke and Margate registering 53° on the morning of the 28th.

An aurora was visible at Baltasound in the night of the 22nd.

All round our coasts the temperature of the sea water was higher than during March, by as much as 3° or 4° in places. On the north-east coast of England, the eastern portion of the English Channel, and the Irish Sea and St. George's Channel, the water was colder than the air on shore, to the extent of 2° locally; in most other neighbourhoods the water was the warmer, and to about the same extent.

Fogs showed a further diminution both inland and at sea. They were rather prevalent off the east of Scotland from the 3rd to the 5th, and about the Western Channels from the 21st to the 24th, but seldom noted on the south coast of England.

Rainfall.—Precipitation exceeded the average in almost all parts of the Kingdom except the extreme north-east. Over a very large area the percentage of the average was more than 150, and in several localities more than 200. At Durham the figure was 217, Polapit Tamar 218, Cirencester 219, Cardiff 222, Ashburton 224, Coventry 240, Cargen 241, Church Stretton 249, and at Goggerddan 274. In the hilly districts the total exceeded 10 in. in many places; among the heaviest were 11·9 in. at Intake and Bungalow (Snowdonia), 12·1 in. at Princetown, 12·3 in. at Old Road (Snowdonia), 13·4 in. at Llanberis, 14·4 in. at Copper Mill (Snowdonia), 14·6 in. at Seathwaite, and 15·3 in. at Treherbert. Rain fell on 25 days at Hemel Hempstead, 26 at Seathwaite, and 27 at Midhurst. In some Scottish localities the total fall was less than the average. At Gordon Castle the percentage was only 51, at Wick 79, at Nairn and Strathpeffer 91, and at Dundee and Deerness a little below 100. At Ventnor and Jersey the figure was also slightly below 100. Rain was measured on no more than 9 days at Cawdor and Fortrose and on 12 at several other stations in Scotland. The smallest aggregates were at Gordon Castle and Fortrose, where the figure was 0·9 in.

Bright Sunshine.—Almost everywhere the mean daily duration of bright sunshine was less than the normal, the difference being large generally. The only exceptions were Strathpeffer and Markree Castle, where the respective percentages of the average were 106 and 101. The lowest figures compared with the average were at Guernsey, 57 per cent., Jersey and Torquay, 64 per cent., and Tenby, 67 per cent. The highest daily means were 5·4 hours at Clongowes Wood Col., and 5·1 hours at Felixstowe; and the lowest 2·5 hours at Hull and 2·0 hours at Bolton.

(30114—24.) Wt. 196—786. 1475. 5/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation. I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands	*a* Castlebay	7, 1, 9	48	9·679	−·124	9·742	48·4	40·3	44·4	−0·5	56	4th	32	11th	—	—	43·9	46·1	45·1	2·3	2·6	2·4	·238	·254	·246	83	82	82
	p Deerness ... §	9, −, 9	163	9·588	—	9·760	46·8	38·8	42·8	+0·4	54	22nd	29	11, 12	—	—	43·0	—	41·5	1·7	—	1·4	·244	—	·233	87	—	88
	a Lerwick ... ¶	7, 1, 9	59	9·718	−·086	9·783	46·1	38·4	42·3	+0·8	52	23rd	24	11th	—	—	41·6	44·9	41·8	1·7	2·5	1·6	·228	·242	·231	87	82	88
	a Stornoway ... ¶§	7, 1, 9	52	9·704	−·104	9·752	48·9	37·4	43·2	0·0	56	29th	30	2, 11	—	—	41·7	47·1	42·5	1·4	3·1	1·8	·235	·252	·234	89	78	86
Mainland	*a* Wick ... ¶	7, 1, 9	94	9·664	−·104	9·769	46·5	37·0	41·8	−1·3	57	22nd	29	11, 12, 13	—	—	40·7	44·6	42·4	0·5	1·6	0·9	·243	·258	·252	96	88	93
	p Strathpeffer ¶§	9, −, 9	210	9·528	—	9·749	52·2	37·0	44·6	+1·0	62	24th	28	13th	—	—	45·3	—	43·1	3·7	—	2·5	·223	—	·225	74	—	81
	a Glencarron § ¶	9, −, 9	504	9·211	—	9·757	49·2	35·3	42·3	−0·6	60	24th	26	13th	—	—	43·7	—	41·4	3·4	—	2·5	·214	—	·210	75	—	81
	p Ft. Augustus § ¶§	9, −, 9	73	9·689	—	9·764	50·5	37·1	43·8	−0·7	60	24, 30	25	2nd	—	—	43·2	—	43·2	2·2	—	1·6	·232	—	·245	83	—	88
	p Ft. William § ¶	9, −, 9	38	9·731	—	9·767	51·4	37·0	44·2	−0·9	61	29th	28	2nd	—	—	44·1	—	42·6	3·4	—	2·4	·194	—	·196	80	—	81
	p Kingussie ... §	9, −, 9	828	8·874	—	9·773	48·6	34·0	41·3	—	59	24th	22	13th	—	—	41·9	—	40·1	3·2	—	2·5	·204	—	·199	77	—	80
	p Dunrobin ... §	9, −, 9	16	9·763	—	9·774	49·7	37·4	43·6	−0·2	60	22nd	30	11th	45·7	—	44·8	—	42·7	2·9	—	2·1	·234	—	·230	79	—	84
1. SCOTLAND, E.																											
	a Nairn ... ¶§	7, 1, 6	82	9·670	−·112	9·765	51·5	34·4	43·0	−1·1	66	24th	23	13th	—	—	40·5	49·2	47·2	2·0	4·4	4·1	·212	·249	·233	84	71	73
	p Gordon Castle § ¶	9, −, 9	107	9·664	—	9·777	51·6	37·2	44·4	+0·1	63	24th	28	13th	—	—	45·7	—	43·1	3·1	—	2·2	·239	—	·231	78	—	82
	Aberdeen ... ¶§	9, 3, 9	90	9·708	−·100	9·805	48·3	38·3	43·3	−0·5	56	30th	30	13th	—	42·0	44·2	46·6	43·1	2·8	3·8	2·3	·233	·239	·233	80	75	83
				9·706	−·101	9·804			43·3	+0·4																		
	a Balmoral ... § ¶	9, 3, −	927	8·779	—	9·795	50·0	31·0	40·5	—	60	23rd	18	13th	—	—	40·0	48·2	—	1·8	1·7	—	·211	·295	—	86	89	—
	p Braemar ... §	9, −, 9	1114	8·578	—	9·775	48·0	32·2	40·1	−0·6	57	23, 24	20	13th	—	—	41·4	—	38·4	2·4	—	1·4	·178	—	·176	85	—	85
	p Dundee ... §	9, −, 9	164	9·636	—	9·812	51·2	36·5	43·9	−0·4	61	23rd	28	11th	—	—	44·5	—	42·0	1·8	—	1·2	·214	—	·218	89	—	91
	p Crieff ... §	9, −, 9	436	9·329	—	9·808	51·7	36·0	43·9	−0·9	62	24th	28	5th	—	—	44·1	—	42·5	3·1	—	2·3	·223	—	·224	76	—	82
	a Leith ... ¶	7, −, 6	37	9·740	−·111	9·784	51·7	38·6	45·2	−0·1	65	24th	30	2nd	—	—	42·1	—	47·8	2·4	—	4·3	·219	—	·236	82	—	71
	p West Linton S ¶	9, 3, 9	805	8·926	—	9·804	49·8	34·0	41·9	−0·7	62	24th	24	2nd	—	—	43·3	46·9	39·2	2·8	4·3	1·3	·222	·226	·214	79	72	89
	p Marchmont § ¶§	9, −, 9	500	9·276	—	9·819	50·7	36·0	43·4	+0·2	62	24th	28	13th	43·2	—	44·8	—	41·7	2·9	—	2·3	·234	—	·221	79	—	85
2. ENGLAND, N.E.																											
North	*p* Whitby	9, −, 9	158	9·655	—	9·819	53·6	39·6	46·6	+1·6	63	23,29,30	33	11, 13	—	—	50·3	—	43·5	4·4	—	1·8	·267	—	·246	73	—	87
	p Cockle Park §	9, −, 9	331	9·467	—	9·825	49·7	37·1	43·4	—	59	30th	28	13th	42·7	42·8	44·7	—	41·4	2·7	—	1·7	·242	—	·228	81	—	87
	a Shields ... ¶	7, −, 6	117	9·703	−·067	9·831	50·7	37·7	44·2	0·0	60	30th	30	13th	—	—	42·6	—	46·2	1·4	—	3·0	·242	—	·246	89	—	79
	p Durham ... ¶§	9, −, 9	352	9·447	—	9·825	50·1	38·1	44·1	−0·1	61	22nd	29	13th	—	—	45·1	—	43·2	2·4	—	1·5	·251	—	·250	83	—	89
	p Rounton ... ¶	9, −, 9	245	9·547	—	9·808	51·7	37·7	44·7	+0·9	63	23, 24	27	13th	44·1	—	46·0	—	42·8	2·8	—	2·0	·248	—	·233	80	—	85
	p Scarborough ¶§	9, −, 9	127	9·712	—	9·836	50·9	39·8	45·4	+0·7	62	30th	33	12th	—	43·7*	47·1	—	44·2	2·0	—	1·8	·280	—	·252	85	—	86
	p York ... ¶§	9, −, 9	53	9·792	—	9·841	53·6	39·7	46·7	+0·8	65	23rd	30	13th	44·7	43·9	47·4	—	44·9	3·4	—	2·8	·249	—	·236	77	—	80
South	*a* Spurn Head ¶	7, 1, 6	28	9·797	−·065	9·830	49·9	39·5	44·7	−0·1	59	30th	33	12, 13	—	—	43·7	49·0	45·7	1·5	3·4	2·2	·251	·268	·258	88	77	85
	a Lincoln ... ¶	9, −, −	42	9·829	—	9·864	54·0	39·6	46·8	+0·2	66	23, 24	27	13th	44·1	43·3	47·7	—	—	2·9	—	—	·270	—	—	80	—	—
	a Skegness ... §	9, −, −	16	9·848	—	9·841	50·6	40·2	45·4	—	58	27,29,30	32	13th	—	—	46·0	—	—	2·3	—	—	·259	—	—	84	—	—
	p Hull	9, −, 9	12	9·846	—	9·851	53·2	39·5	46·4	+1·2	63	29th	28	13th	44·4	43·7	48·1	—	45·0	3·5	—	2·4	·254	—	·245	76	—	82
3. ENGLAND, E.																											
North	*p* Lowestoft	9, 3, 9	77	9·788	—	9·870	50·4	40·4	45·4	+0·2	67	30th	31	13th	46·8	45·7	48·0	48·5	43·8	2·6	2·5	1·0	·277	·284	·266	81	83	91
	p Cromer ... ¶§	9, −, 9	139	9·712	—	9·857	52·7	40·3	46·5	—	66	27th	31	12, 13	—	—	46·3	—	43·2	1·9	—	0·6	·270	—	·266	87	—	95
	p Lit. Massingham ...	9, 3, 9	280	—	—	—	52·4	38·5	45·5	−0·6	67	29th	31	13th	—	—	46·7	49·5	42·6	2·4	2·7	1·8	·264	·267	·235	83	75	87
	p Yarmouth ... ¶	7, 1, 9	27	9·845	−·027	9·872	51·2	40·4	45·8	+1·0	67	30th	33	13, 14	46·8	47·0	43·9	48·6	44·6	1·2	2·7	1·5	·260	·278	·260	91	81	89
	p Geldeston ... ¶§	9, −, 9	47	9·830	—	9·872	53·0	39·2	46·1	+0·3	69	28th	30	13th	—	—	48·1	—	43·9	3·1	—	1·5	·262	—	·254	78	—	88
South	*p* Cambridge... ¶§	9, −, 9	43	9·811	—	9·850	54·4	38·2	46·3	−0·7	67	29th	25	13th	46·7	46·1	48·1	—	44·6	3·0	—	1·7	·271	—	·261	79	—	87
	a Clacton ... ¶§	7, 1, 9	54	9·804	−·045	9·862	51·8	41·2	46·5	−0·2	61	29th	31	13th	46·9	46·9	44·6	49·8	46·0	1·5	3·9	2·0	·260	·266	·265	89	74	86
	p Woburn	9, −, 9	294	9·564	—	9·881	53·3	38·2	45·8	—	66	23rd	23	13th	—	—	46·7	—	45·1	3·0	—	2·6	·255	—	·249	79	—	82
	p Bennington ...	9, 3, 9	411	—	—	—	53·5	38·0	45·8	−0·3	65	23rd	27	13th	45·6	45·1	46·4	50·4	43·6	2·9	5·2	2·0	·260	·254	·245	80	69	85
	p Berkhamsted ...	9, −, 9	397	9·445	—	9·874	53·8	37·3	45·6	−0·6	66	23,24,29	24	13th	47·0	—	46·4	—	44·1	3·2	—	2·2	·250	—	·245	78	—	83
4. MIDLAND COUNTIES.																											
East	*a* Garforth	9, −, 9	198	—	—	—	52·3	37·2	44·8	—	63	23, 24	25	13th	43·6	43·2	46·5	—	44·1	3·3	—	2·4	·247	—	·243	77	—	83
	p Huddersfield ...	9, 3, 9	411	9·385	—	9·834	51·5	38·3	44·9	—	63	23, 24	30	13th	44·0	42·3	45·1	49·5	43·4	2·4	4·4	1·9	·251	·256	·245	83	73	86
	p Sheffield ... §	9, −, 9	450	9·358	—	9·843	52·3	39·3	45·8	−0·4	63	24th	30	13th	43·6	42·8	45·3	—	44·4	2·8	—	2·6	·244	—	·239	80	—	81
	a Worksop	9, −, 9	67	9·780	−·078	9·844	54·5	38·7	46·6	+0·6	66	23, 24	25	13th	45·5	44·6	47·2	51·3	—	3·2	5·1	—	·251	·256	—	78	68	—
	p Buxton	9, 3, 9	997	8·760	—	9·844	50·0	36·6	43·3	+0·3	62	23rd	28	13th	43·3	42·5	43·7	47·2	42·1	2·8	3·9	2·5	·225	·237	·217	78	74	81
	p Belvoir Castle ...	9, −, 9	276	9·566	—	9·860	52·4	38·3	45·4	−0·5	64	23, 24	24	13th	43·9*	43·7	45·6	—	44·1	2·7	—	2·3	·246	—	·239	81	—	82
	a Coventry	9, −, −	309	9·528	—	9·856	53·6	40·2	46·9	−0·1	65	23rd	29	13th	46·0	45·5	47·4	—	—	3·7	—	—	·243	—	—	75	—	—
	a Thrapston	9, 3, −	251	—	—	—	53·4	38·4	45·9	—	66	29th	25	13th	—	—	47·2	50·8	—	2·7	4·7	—	·262	·259	—	82	70	—
	a Nottingham ¶§	7, 1, 9	85	9·754	−·073	9·845	53·4	38·1	45·8	−0·6	66	24th	27	13th	45·2	43·2	42·8	51·5	45·2	1·3	4·9	2·1	·247	·263	·253	90	70	85
	p Birmingham ¶§	9, −, 9	542	9·267	—	9·853	51·4	38·9	45·2	−0·5	63	23rd	31	13th	43·5	44·2	44·0	—	45·2	2·8	—	2·9	·235	—	·244	81	—	80
	a Oxford ... ¶§	8, −, 8	212	—	—	—	53·9	40·5	47·2	+0·1	66	23, 24	26	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·633	−·090				46·9											3·2			·249			79		
West	*a* Bath ... ¶§	7, −, 6	84	9·768	−·063	9·864	55·1	40·7	47·9	+0·2	68	23rd	30	17th	48·0	?	45·5	—	49·9	—	—	—	—	—	—	—	—	—
	p Shrewsbury ¶	9, −, 9	212	9·617	—	9·839	53·9	38·9	46·4	+0·3	65	23rd	27	13th	—	—	46·3	—	44·9	3·0	—	2·2	·250	—	·254	80	—	84
	p Wistanstow ...	9, −, 9	484	9·305	—	9·825	52·6	38·0	45·3	—	64	23rd	27	13th	—	—	46·4	—	43·7	2·7	—	1·6	·255	—	·249	82	—	87
	p Bromyard	9, −, 9	400	9·406	—	9·835	52·7	39·4	46·1	—	65	23rd	27	13th	46·2	44·4	47·1	—	44·8	2·9	—	1·9	·263	—	·258	81	—	85
	p Cheltenham ...	9, −, 9	206	9·636	—	9·852	53·3	40·9	47·1	+0·6	66	23rd	31	13th	—	—	48·2	—	45·8	4·1	—	3·0	·243	—	·243	73	—	80
5. ENGLAND, S.E.																											
	p Reading	9, −, 9	264	9·582	—	9·862	54·4	38·3	46·4	—	68	22,23,29	25	13th	—	—	47·6	—	45·9	1·4	—	1·2	·295	—	·283	90	—	93
	p Salisbury	9, −, 9	186	—	—	—	53·6	39·4	46·5	−0·6	67	23rd	29	17th	48·1	—	48·0	—	45·5	2·5	—	1·4	·274	—	·272	83	—	90
	a Grayshott	9, 2, −	659	9·163	—	9·880	53·0	38·2	45·6	—	67	29th	27	13th	46·2	—	45·6	51·2	—	2·6	5·2	—	·248	·253	—	81	67	—
	a Midhurst	9, 2, −	493	9·330	—	9·866	52·8	40·0	46·4	—	66	29th	31	13th	—	—	46·2	50·4	—	2·7	4·1	—	·257	·275	—	81	74	—
	a Brighton	9, −, −	48	9·833	—	9·877	52·9	42·7	47·8	+0·2	68	29th	30	13th	—	47·1	48·1	—	—	3·2	—	—	·260	—	—	77	—	—
	a Portsmouth ...	9, −, −	18	9·873	—	9·885	54·4	42·5	48·5	+1·0	66	23rd	29	13th	49·0	48·6	49·5	—	—	3·7	—	—	·267	—	—	75	—	—
	p Eastbourne §	9, −, 9	36	9·839	—	9·871	52·8	41·7	47·3	−0·3	60	23, 30	31	13, 14	48·4	48·0	48·5	—	47·5	2·4	—	1·7	·288	—	·292	83	—	88
	a Dover	7, −, 6	234	9·637	−·037	9·871	51·9	40·6	46·3	—	64	28th	31	13, 14	46·6	46·3	45·7	—	47·3	1·7	—	2·0	·268	—	·278	88	—	86
	a Dungeness... ¶	7, 1, 6	21	9·815	−·061	9·840	51·5	41·8	46·7	+0·2	59	27, 28	27	13th	—	—	46·0	50·3	48·4	1·4	2·7	1·7	·278	·297	·298	90	82	88
	p Hastings ... ¶	9, −, 9	174	9·689	—	9·870	52·3	41·7	47·0	0·0	63	29th	32	13th	48·3	47·1	47·8	—	46·1	3·1	—	2·0	·260	—	·266	79	—	86
	p Southampton ¶§	9, −, 9	84	9·788	—	9·874	54·8	41·3	48·1	−0·3	66	23rd	28	13th	—	—	48·4	—	47·0	3·1	—	2·4	·273	—	·273	79	—	83
	a Ventnor ... ¶§	9, 3, −	80	9·765	—	9·846	53·7	42·7	48·2	0·0	66	23rd	34	13th	—	—	48·2	51·3	—	2·8	3·9	—	·270	·282	—	81	74	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

* At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of APRIL, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 90 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
5·08	—	36	—	6·9	7·4	6·2	3·26	—	0·44	24th	23	18	4	—	7	0	0	13	0	—	1	45	2	7	11	6	13	15	13	10	13	Castlebay.
4·10	−0·87	29	− 6	7·0	—	6·6	1·88	−0·04	0·52	28th	14	12	2	0	2	1	0	10	5	—	3	49	6	14	1	6	18	24	7	6	8	Deerness.
—	—	—	—	7·2	6·2	7·3	2·54	—	0·68	26th	18	11	3	—	0	0	0	4	7	—	6	41	2	6	2	16	23	16	4	6	15	Lerwick.
4·21	−1·09	30	− 7	7·2	7·4	7·6	3·47	+0·79	0·90	15th	20	14	1	—	2	0	0	12	2	—	1	47	0	4	12	7	5	21	24	9	8	Stornoway.
—	—	—	—	7·4	8·0	7·5	1·43	−0·39	0·51	28th	16	12	3	—	0	0	0	14	3	—	2	46	13	11	6	2	11	20	15	5	7	Wick.
5·01	+0·28	35	+ 2	6·3	—	5·4	1·64	−0·15	0·42	29th	15	8	2	2	0	0	1	6	0	—	1	23	33	0	4	3	6	5	21	10	8	Strathpeffer.
—	—	—	—	7·7	—	4·2	5·54	+0·23	0·82	19th	19	16	3	3	4	0	4	13	0	—	1	53	3	11	1	30	0	5	0	40	0	Glencarron.
3·20	−0·67	23	− 4	7·7	—	7·1	2·76	+0·49	0·60	16th	16	12	2	1	0	0	3	16	1	—	1	33	0	8	27	3	1	5	43	2	1	F. Augustus.
—	—	—	—	7·5	—	7·4	5·42	+1·62	0·89	16th	19	16	2	2	2	0	2	19	1	—	0	23	21	0	14	7	2	0	42	3	1	Ft. William.
—	—	—	—	8·3	—	6·9	1·89	—	0·40	11th	14	8	3	2	0	0	1	17	0	—	2	26	15	2	13	12	0	11	13	20	4	Kingussie.
—	—	—	—	5·1	—	5·8	2·00	+0·03	0·40	11th	12	10	2	2	1	0	4	6	0	—	0	12	24	5	1	21	3	2	9	24	1	Dunrobin.
4·56	—	32	—	6·7	6·4	6·7	1·18	−0·09	0·31	11th	15	9	0	—	1	0	0	3	0	—	0	7	24	5	8	7	2	12	18	9	5	Nairn.
4·47	—	32	—	7·7	—	8·0	0·87	−0·83	0·19	18th	14	6	2	1	0	1	0	15	1	—	1	24	0	12	4	2	24	24	12	3	9	Gordon C.
4·47	−0·70	32	− 5	7·0	6·8	6·8	2·79	+0·70	0·63	28th	14	10	1	0	1	0	2	15	3	—	0	17	9	11	5	1	11	30	8	7	8	Aberdeen.
—	—	—	—	6·7	—	—	2·62	—	0·83	26th	14	10	2	3	0	0	3	12	0	19	2	18	0	12	3	0	9	6	12	30	18	Balmoral.
—	—	—	—	6·6	—	—	3·46	+1·23	0·61	15th	15	13	9	4	0	0	4	11	0	18	1	18	0	3	15	0	0	15	36	6	15	Braemar.
—	—	—	—	7·1	—	8·3	1·96	−0·01	0·41	29th	12	10	1	1	1	1	1	18	1	—	1	6	0	0	18	7	18	3	34	8	2	Dundee.
—	—	—	—	7·9	—	6·7	3·46	+1·18	0·84	29th	18	14	2	1	3	0	2	15	0	—	1	20	0	6	7	24	3	2	11	33	4	Crieff.
—	—	—	—	6·3	—	7·2	1·59	+0·18	0·36	11, 29	18	10	3	—	1	0	1	9	2	—	0	14	9	5	10	3	12	17	18	12	4	Leith.
3·30	—	24	—	7·0	8·0	6·4	2·78	—	0·61	29th	18	13	4	2	2	0	0	12	0	17	0	6	22	4	13	5	1	16	20	9	0	West Linton.
4·10	−0·60	29	− 5	6·0	—	7·4	2·55	+0·24	0·44	28th	14	13	4	2	1	1	2	13	0	8	1	21	0	12	11	7	9	14	21	9	7	Marchmont.
4·77	—	34	—	7·0	—	5·8	2·25	+0·57	0·47	1st	13	9	1	0	2	1	2	9	1	—	0	32	8	15	9	6	6	19	9	12	6	Whitby.
4·05	—	29	—	7·3	—	6·9	3·34	+1·29	0·60	28th	21	12	2	2	0	0	1	13	0	6	0	11	6	8	10	3	12	10	12	21	8	Cockle Park.
—	—	—	—	8·2	—	8·0	2·62	+1·03	0·72	28th	19	10	1	—	0	0	0	19	0	—	0	15	4	12	12	8	12	15	18	6	3	Shields.
3·35	−1·08	24	− 8	8·4	—	7·3	4·01	+2·16	0·78	26th	19	13	2	2	1	2	2	17	0	3	1	32	21	10	8	2	3	27	12	6	1	Durham.
—	—	—	—	7·8	—	7·1	3·19	+1·53	0·92	28th	19	11	1	1	1	1	3	18	2	9	1	36	6	5	16	0	6	29	15	6	7	Rounton.
4·19	—	30	—	7·2	—	7·8	1·89	+0·12	0·30	29th	18	11	0	0	0	1	0	11	4	—	0	51	0	7	12	2	21	0	34	6	8	Scarborough
2·96	−1·57	21	−12	6·4	—	5·7	2·83	+1·12	0·48	11th	19	11	1	0	0	2	3	10	0	—	0	5	0	22	3	3	3	33	8	13	5	York.
4·67	—	34	—	6·2	6·7	6·6	1·86	+0·73	0·56	29th	14	12	2	—	1	3	1	7	1	—	7	66	0	14	8	13	11	23	8	9	4	Spurn Head.
—	—	—	—	6·7	—	5·3	1·99	+0·43	0·52	11th	17	12	2	0	0	1	5	11	0	—	0	26	0	0	4	15	14	15	13	15	14	Lincoln.
5·05	—	37	—	6·4	—	—	2·07	—	0·58	11th	19	10	0	0	0	1	5	11	0	—	0	66	0	21	9	3	6	24	12	12	3	Skegness.
2·50	—	18	—	6·9	—	6·4	1·69	+0·01	0·50	11th	18	11	2	1	0	1	2	14	0	9	0	6	6	8	16	2	12	5	31	4	6	Hull.
5·04	—	37	—	5·8	6·0	5·8	2·30	+0·75	0·64	11, 30	17	11	3	0	2	2	5	7	0	4	0	54	0	10	22	4	9	21	14	5	5	Lowestoft.
4·78	—	35	—	7·4	—	6·1	1·68	—	0·42	11th	18	8	1	1	0	0	1	9	0	—	0	57	0	13	5	8	15	27	7	6	9	Cromer.
4·45	−0·68	32	− 5	6·8	7·5	5·2	2·61	+0·91	0·57	11th	21	13	1	2	2	3	2	9	0	14	0	33	1	9	16	8	8	12	24	8	4	L. Mas'gh'm.
5·05	—	37	—	5·3	6·6	5·5	2·28	+0·64	0·62	30th	17	11	3	—	1	1	3	9	0	—	0	23	0	17	10	9	10	19	13	7	5	Yarmouth.
4·61	−0·76	34	− 5	7·2	—	4·8	1·88	+0·33	0·52	30th	16	10	2	0	1	2	5	10	0	—	0	6	1	11	16	11	9	13	18	8	3	Geldeston.
4·27	−1·06	31	− 8	7·5	—	6·8	1·51	0·00	0·38	11th	16	9	2	0	1	1	2	16	0	12	0	18	7	20	6	0	18	15	13	6	5	Cambridge.
4·61	—	34	—	6·4	7·1	6·5	1·84	—	0·59	11th	15	10	2	—	0	1	0	9	0	4	0	31	0	13	16	5	8	20	9	10	9	Clacton.
3·76	—	27	—	7·6	—	7·5	2·38	—	0·51	29th	19	15	1	0	1	1	2	16	0	—	1	38	7	2	21	5	3	18	19	9	6	Woburn.
4·10	—	30	—	7·5	7·9	6·8	2·47	+0·71	0·45	11th	20	15	2	2	2	1	1	14	3	9	0	13	6	4	18	5	9	12	21	11	4	Bennington.
3·98	—	29	—	7·9	—	7·5	2·83	+0·97	0·52	29th	22	16	2	0	2	2	1	16	1	13	0	0	13	21	5	3	10	15	12	9	2	Berkh'mst'd.
3·19	—	23	—	7·2	—	7·8	2·76	—	0·52	11th	19	15	1	1	0	1	1	15	0	17	0	2	2	15	8	12	7	21	16	6	3	Garforth.
3·12	—	22	—	7·4	7·6	6·6	3·70	—	0·93	15th	21	15	3	2	1	1	1	12	0	6	2	18	10	11	9	9	8	12	9	16	6	Huddersf'ld.
3·74	—	27	—	7·9	—	7·6	3·05	+0·84	0·57	15th	18	13	2	0	1	1	0	16	2	6	0	23	6	16	9	3	14	19	12	6	5	Sheffield.
3·69	−0·71	27	− 5	7·3	7·8	6·9	2·34	+0·64	0·49	11th	17	13	1	2	0	2	2	16	1	11	0	25	6	7	17	4	12	12	18	11	3	Worksop.
3·40	—	25	—	7·5	7·0	6·6	5·65	+2·78	0·86	29th	21	17	1	1	1	2	2	13	0	7	0	4	4	3	18	4	9	12	19	12	9	Buxton.
4·41	—	32	—	6·6	—	5·8	2·25	+0·44	0·49	29th	20	14	1	0	0	2	3	11	4	8	3	29	20	12	12	0	4	18	17	3	4	Belvoir C.
3·41	—	25	—	7·4	—	—	4·11	+2·40	1·35	29th	21	13	1	0	2	2	3	20	0	8	0	27	0	12	15	3	12	21	15	6	6	Coventry.
4·05	—	29	—	7·4	7·9	—	2·48	—	0·56	29th	18	13	1	0	1	2	1	17	0	8	—	—	0	19	3	8	12	16	14	12	6	Thrapston.
3·88	—	28	—	7·5	7·4	6·7	2·29	+0·62	0·51	29th	20	14	1	—	2	1	1	14	0	7	6	45	0	3	20	15	5	14	20	10	3	Nottingham.
2·73	—	20	—	8·3	—	6·9	3·45	+1·58	0·61	26th	18	16	1	0	0	2	2	18	0	10	0	21	9	3	18	4	6	22	11	9	8	Birmingh'm.
3·55	−1·48	26	−11	—	—	—	3·74	+2·12	1·42	29th	20	15	1	0	7	4	0	—	—	4	1	45	0	11	18	3	7	26	11	11	3	Oxford.
				7·9			3·81	+2·04																							
3·99	—	29	—	7·8	—	7·8	3·02	+0·91	0·56	15th	18	14	—	—	—	—	3	19	—	—	—	23	3	3	14	16	9	12	11	18	4	Bath.
—	—	—	—	7·8	—	6·4	3·13	—	0·50	15th	18	15	1	0	1	0	0	14	1	5	0	5	9	1	12	0	9	13	30	5	11	Shrewsbury.
—	—	—	—	7·4	—	6·6	5·03	—	1·15	26th	16	13	2	0	0	0	1	14	0	7	0	14	31	3	7	0	3	5	27	6	8	Wistanstow.
—	—	—	—	7·8	—	6·5	4·01	—	0·77	29th	19	14	1	0	0	1	1	12	1	9	0	17	12	8	6	12	9	24	4	12	3	Bromyard.
3·36	—	24	—	8·1	—	7·0	2·91	+0·97	0·55	29th	17	13	0	0	0	1	1	13	0	7	1	24	0	6	18	0	8	10	44	1	3	Cheltenham.
3·65	—	27	—	8·0	—	8·1	2·77	+1·18	0·58	29th	19	17	0	0	0	1	0	20	0	—	2	17	30	12	9	3	2	1	15	14	4	Reading.
—	—	—	—	6·7	—	7·6	4·46	+2·24	0·79	29th	20	16	0	0	1	1	1	11	0	5	1	48	0	8	7	6	11	12	21	10	15	Salisbury.
3·89	—	28	—	7·5	7·5	—	3·45	—	0·52	29th	24	18	1	0	1	2	2	16	2	12	2	17	0	8	19	6	8	16	9	18	6	Grayshott.
4·03	—	29	—	8·0	7·7	—	3·54	—	0·58	15th	27	18	0	0	1	1	1	18	1	—	1	68	1	16	9	6	5	17	25	9	2	Midhurst.
4·86	−0·84	35	− 7	7·5	—	—	2·95	+1·26	0·55	11th	19	15	0	0	0	2	3	18	0	3	0	40		6	21	15	6	3	18	15	6	Brighton.
4·60	—	34	—	6·8	—	—	2·65	+1·00	0·75	29th	17	13	0	0	0	1	3	13	0	5	0	78	0	3	15	12	9	3	15	18	15	Portsmouth.
4·63	−1·10	34	− 8	6·5	—	6·9	3·75	+1·88	0·74	11th	16	14	0	0	0	1	4	13	0	—	0	3	0	6	27	5	4	1	30	8	9	Eastbourne.
5·22	—	38	—	6·3	—	6·0	2·34	—	0·43	11th	22	12	1	—	3	3	4	9	0	5	0	56	0	20	16	2	4	15	23	4	6	Dover.
—	—	—	—	6·7	7·1	7·5	1·86	+0·48	0·35	11th	17	10	1	—	0	1	0	9	0	—	6	54	4	9	22	5	4	10	26	7	3	Dungeness.
4·61	−1·16	34	− 8	7·4	—	6·6	3·05	+1·23	0·57	11th	19	13	1	0	0	1	1	14	0	3	2	42	0	24	4	5	6	15	24	7	5	Hastings.
4·11	−1·49	30	−11	7·0	—	6·8	3·04	+1·06	0·69	29th	18	15	0	0	0	1	0	12	0	4	0	26	0	0	25	0	14	0	30	8	13	S'mpton.
4·54	−1·49	33	−11	7·3	7·2	—	1·76	−0·09	0·40	29th	18	14	0	0	1	1	0	12	0	—	1	29	0	5	16	16	3	21	13	11	5	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·800	—	9·852	53·8	41·1	47·5	−0·3	66	29th	30	13th	—	46·3	48·3	—	46·8	3·8	—	2·8	·256	—	·261	74	—	81
p Hampstead ...	9, –, 9	453	9·398	—	9·885	52·3	39·4	45·9	—	64	24th	30	13th	—	—	46·3	—	45·1	3·0	—	2·2	·247	—	·250	79	—	83
a Camden Square ...	9, –, 9	123	9·742	—	9·868	56·6	40·2	48·4	−0·1	69	29th	26	13th	45·6	44·8	48·6	—	46·5	3·7	—	3·0	·256	—	·249	75	—	79
a Westminster ...	9, 3, –	—	—	—	—	54·8	42·3	48·5	+0·6	67	24th	33	13th	—	—	48·7	52·8	—	3·0	5·1	—	·272	·274	—	80	69	—
a South Kensington*	9, 3, 6	70	9·788	—	9·869	54·7	42·7	48·7	—	67	24th	33	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·692	—	9·867	55·4	38·9	47·1	0·0	67	24th	29	13th	—	45·8	48·4	52·5	45·6	3·7	5·9	2·7	·254	·254	·246	75	65	81
			9·689	−·076	9·865			46·8	−0·5																		
Kew ... ¶§	9, 3, 9	34	9·833	−·057	9·869	54·1	40·3	47·2	−0·2	66	24th	30	13th	46·7	46·3	48·0	52·4	46·8	3·7	5·9	3·2	·257	·261	·256	75	65	78
			9·832	−·057	9·869			47·3	+0·4																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	—	—	—	48·5	34·9	41·7	—	60	23rd	25	2nd	—	—	43·4	46·1	40·2	2·8	4·0	1·6	·226	·229	·221	79	73	87
p Poltalloch ... § ¶	9, –, 9	135	9·634	—	9·778	51·5	37·9	44·7	−0·4	60	5, 6	28	1st	—	—	45·0	—	43·3	2·3	—	1·8	·247	—	·242	83	—	86
p Glasgow ... ¶§	9, –, 9	184	—	—	—	51·5	39·1	45·3	+0·4	61	8th	32	11th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Rothesay ... § ¶	9, –, 9	76	9·712	—	9·790	53·4	38·6	46·0	+0·4	63	8th	30	7th	—	44·5	45·9	—	43·6	3·9	—	2·4	·226	—	·232	73	—	82
a Colmonell ... § § ¶	9, 3, –	150	9·659	—	9·828	52·2	37·6	44·9	−0·6	62	23rd	27	1st	—	—	45·0	49·6	—	1·8	3·2	—	·257	·278	—	86	79	—
p Dumfries ... § § ¶	9, –, 9	155	9·670	—	9·836	51·3	38·3	44·8	−1·1	62	23rd	29	2nd	45·0	44·1	45·2	—	43·3	3·1	—	1·9	·233	—	·239	78	—	85
p Cally ... § ¶	9, –, 9	120	—	—	—	51·1	38·8	45·0	0·0	59	23rd	28	2nd	—	—	45·8	—	43·9	1·9	—	1·9	·266	—	·245	86	—	85
p Douglas ... ¶§	9, –, 9	284	9·504	—	9·808	50·0	40·6	45·3	−0·1	58	3, 23	34	12th	—	—	45·4	—	43·9	2·2	—	1·6	·257	—	·254	84	—	88
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·795	—	9·840	52·4	40·4	46·4	+0·5	64	24th	31	13th	46·1	45·2	46·7	50·4	44·8	3·0	4·8	2·1	·255	·258	·255	80	71	85
p Manchester (City)	9, –, 9	195	9·630	—	9·836	53·1	41·1	47·1	—	64	24th	34	12th	44·0	44·7	46·3	—	46·4	2·8	—	3·1	·254	—	·251	80	—	79
p „ (WhitworthPk.)	9, –, 9	127	9·688	—	9·819	53·0	40·7	46·9	—	64	23, 24	33	2nd	—	—	47·2	—	46·1	3·6	—	2·8	·243	—	·249	76	—	81
p Darwen	9, –, 9	730	9·047	—	9·838	49·7	37·0	43·4	—	61	24th	31	11, 12, 13	44·7	42·9	44·3	—	42·9	2·5	—	2·0	·242	—	·236	82	—	84
p Egremont	9, –, 9	354	9·433	—	9·813	51·0	39·7	45·4	—	63	23rd	32	12th	45·5	44·1	45·2	—	43·8	2·3	—	1·6	·255	—	·259	84	—	88
p Aspatria ... ¶§	9, –, 9	254	9·535	—	9·805	52·4	38·4	45·4	+0·2	63	23rd	32	11th	45·8	44·5	46·7	—	43·1	3·0	—	1·6	·256	—	·248	80	—	88
p Newton Rigg ¶§	9, –, 9	559	9·203	—	9·808	51·0	37·7	44·4	0·0	60	22,23,24	30	2, 11	44·7	42·9	44·0	—	43·3	2·2	—	1·7	·240	—	·244	83	—	87
p Stonyhurst ¶§	9, –, 9	363	—	—	—	51·2	40·0	45·6	+0·4	62	24th	33	13th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·746	—	9·819	52·3	40·1	46·2	+0·4	63	24th	30	12, 13	45·4	44·8	47·4	—	44·2	2·2	—	1·1	·279	—	·269	85	—	92
p Liverpool (Bid.) ¶	9, –, 9	202	9·615	—	9·828	52·0	40·1	46·1	−0·5	62	24th	33	13th	—	—	46·2	—	45·1	3·1	—	2·3	·244	—	·248	79	—	83
p Llandudno... ¶§	9, –, 9	32	9·815	—	9·842	52·6	41·7	47·2	+0·1	61	24th	34	13th	—	—	48·1	—	47·6	2·4	—	1·8	·277	—	·286	83	—	88
a Holyhead ... ¶	7, 1, 9	48	9·754	−·095	9·804	50·8	41·8	46·3	−0·4	58	23rd	37	13th	—	—	45·0	49·9	45·8	1·4	3·2	1·5	·266	·281	·274	89	79	89
p Bettws-y-Coed ¶§	9, –, 9	125	9·659	—	9·787	53·7	39·2	46·5	−0·1	64	23rd	30	8, 13	45·0	45·3	47·8	—	47·8	2·5	—	2·5	·272	—	·272	82	—	82
p Dwyran	9, –, 9	30	9·800	—	9·825	52·6	41·5	47·1	—	68	22nd	33	13th	48·0	46·5	48·8	—	46·4	1·7	—	0·7	·303	—	·299	88	—	95
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·215	—	9·848	51·9	38·4	45·2	+0·3	64	23rd	27	8th	44·5	44·7	45·0	—	—	1·7	—	—	·260	—	—	87	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·651	−·085	9·813	51·0	42·0	46·5	0·0	60	23rd	35	8th	—	—	44·8	48·4	46·5	0·9	1·9	1·4	·276	·293	·283	93	87	90
a Portland Bill ¶	7, 1, 9	23	9·816	−·073	9·848	51·4	43·4	47·4	−1·0	63	23rd	34	13th	—	—	46·6	49·8	47·0	1·2	1·9	1·4	·290	·310	·289	92	87	90
p Plymouth ... ¶§	9, 3, 9	116	9·720	—	9·845	53·0	42·8	47·9	−0·5	63	23rd	37	1st	48·6	—	49·2	50·6	47·8	2·3	3·1	1·8	·294	·292	·288	84	79	87
Falmouth ... ¶§	9, 3, 9	183	9·664	−·062	9·860	52·5	43·6	48·1	+0·2	60	23rd	37	8th	—	—	48·7	50·6	47·5	2·7	3·6	2·3	·282	·284	·278	81	77	84
			9·661	−·061	9·861			48·1	+0·4																		
p Cardiff	9, –, 9	216	9·606	—	9·835	52·6	40·6	46·6	−1·2	67	23rd	34	8, 13	46·9	46·1	47·1	—	45·9	2·8	—	2·3	·259	—	·258	80	—	84
a Newquay ... §	7, –, 6	161	9·692	−·073	9·835	51·4	42·5	47·0	−1·0	58	23rd	35	8th	48·1	—	47·1	—	49·2	2·0	—	2·6	·276	—	·287	86	—	82
p Woolacombe ...	9, –, 9	120	9·733	—	9·857	52·7	43·7	48·2	−1·1	65	23rd	39	8, 13, 17	—	—	49·0	—	47·6	2·8	—	2·3	·286	—	·274	81	—	82
a Princetown ...	9, 3, –	1360	8·339	—	—	47·4	37·7	42·6	—	61	23rd	30	8th	—	—	42·9	44·4	—	1·5	2·5	—	·244	·238	—	88	81	—
p Sheepstor	9, 3, 9	730	9·053	—	9·844	49·9	37·1	43·5	—	62	23rd	30	1, 20	—	—	46·4	48·1	43·2	2·2	2·6	1·2	·273	·277	·259	87	83	91
p Teignmouth ...	9, 3, 9	20	9·839	—	9·857	53·7	42·7	48·2	—	66	23rd	35	17th	—	—	48·4	51·5	48·3	2·6	4·1	2·5	·282	·283	·282	82	74	83
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·487	−·124	9·743	50·2	40·2	45·2	−0·5	56	23, 24	36	2nd	—	—	42·9	47·7	46·1	1·3	1·8	1·9	·248	·288	·268	90	87	86
West. *a* Blacksod Point ¶	7, 1, 9	41	9·714	−·127	9·757	50·4	39·6	45·0	−2·2	54	21st	36	17, 20, 26	—	—	44·2	49·0	45·7	1·4	2·0	1·0	·259	·298	·285	89	86	94
West. *p* Markree Castle ¶§	9, –, 9	127	9·654	—	9·787	53·2	37·5	45·4	−0·6	60	21st	29	8th	46·9	45·5	46·0	—	43·1	2·8	—	1·9	·250	—	·241	80	—	86
East. *a* Donaghadee ¶	7, 1, 9	40	9·752	−·105	9·794	50·4	39·5	45·0	−0·8	57	30th	32	2nd	—	—	42·0	48·4	44·2	1·8	3·4	1·8	·229	·260	·250	86	77	86
East. *p* Armagh ... §§	9, –, 9	202	9·563	—	9·776	53·0	38·6	45·8	+0·2	60	22nd	32	7th	45·9	45·1	46·4	—	42·9	2·8	—	2·2	·256	—	·232	81	—	83
East. *a* Belfast	9, –, 9	55	—	—	—	53·6	39·0	46·3	—	61	23rd	29	1st	—	—	47·9	—	43·9	3·7	—	2·2	·251	—	·242	75	—	84
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	52·6	37·2	44·9	—	59	8, 21, 23	31	20th	44·6	45·0	45·9	—	43·2	2·2	—	1·2	·260	—	·253	85	—	90
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	53·5	39·8	46·7	—	60	30th	32	13th	47·2	46·6	48·0	—	46·1	3·0	—	2·2	·268	—	·265	79	—	85
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·639	—	9·806	53·1	37·4	45·3	0·0	60	8th	29	1, 2	—	—	47·3	—	43·5	3·0	—	1·7	·260	—	·248	79	—	87
East. *p* „ (City)... ¶	9, –, 9	53	9·741	—	9·793	53·4	41·7	47·6	0·0	58	8, 22, 30	36	25, 26	—	—	47·1	—	45·9	3·1	—	2·3	·256	—	·258	79	—	83
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·595	−·115	9·789	53·5	36·7	45·1	−1·5	61	23rd	30	8th	45·8	45·8	40·9	50·8	49·1	1·0	4·4	3·3	·235	·265	·271	92	71	77
West. Valencia ... §§	9, 3, 9	45	—	—	—	51·7	41·8	46·8	−1·7	56	6th	35	13th	—	—	46·9	50·6	46·9	2·5	3·7	2·4	·268	·283	·268	83	77	83
								46·9	−1·4																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·771	−·080	9·823	52·3	41·4	46·9	−1·2	60	22nd	34	26th	—	—	44·6	50·6	49·3	1·2	2·8	2·4	·267	·298	·293	91	81	83
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·735	—	9·787	52·9	38·7	45·8	—	60	23rd	30	13, 20	47·4	—	46·5	50·8	44·4	2·2	3·9	1·3	·269	·281	·265	84	76	90
11. ENGLISH CHANNEL.																											
a Scilly .. ¶§	7, 1, 9	152	9·670	−·068	9·834	52·1	43·1	47·6	−1·2	59	23rd	39	8, 9	—	—	47·0	50·0	47·4	1·8	2·9	2·2	·280	·288	·275	87	81	84
a Jersey ... ¶§	7, 1, 9	36	9·853	−·037	9·891	54·1	43·9	49·0	−0·3	65	23rd	31	13th	—	—	47·4	51·6	48·8	1·8	3·5	2·5	·284	·294	·285	87	77	82
p Guernsey (Brooklyn).	9, –, 9	311	9·549	—	9·882	52·9	43·2	48·1	−0·6	62	26th	36	13th	49·1	48·6	47·6	—	46·6	2·3	—	1·9	·280	—	·276	84	—	86
a Gibraltar ...	7, 1, 9	53	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet given in 1912 is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m. and 6 p.m. or 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of APRIL, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of											WIND. No. of Observations reduced to a total of 90 for the month.									STATIONS.
				Mean Amount.					Most in a day.													Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
3·89	—	28	—	8·3	—	8·1	2·59	—	0·47	11th	17	16	2	0	0	1	0	20	0	6	0	8	0	0	25	2	8	9	34	8	4	Tottenham.
4·20	—	31	—	7·8	—	7·9	2·92	—	0·46	11th	21	18	1	0	1	2	1	15	0	15	0	14	22	6	19	2	5	9	22	5	0	Hampstead.
3·74	—	27	—	7·2	—	—	2·72	+1·04	0·48	11th	21	17	0	0	0	1	4	16	0	5	—	—	6	12	21	9	0	15	12	12	3	Camden Sq.
3·63	−0·14	26	− 2	—	—	—	2·42	+0·77	0·45	11, 29	19	16	2	—	0	1	—	—	—	4	—	—	—	—	—	—	—	—	—	—	—	Westminster
3·58	—	26	—	7·8	—	8·0	2·30	—	0·43	29th	19	14	0	—	1	1	0	14	0	7	0	20	3	7	20	6	10	14	18	9	3	S.Kensingtn
4·00	−1·18	29	− 9	7·3	7·7	7·8	2·23	+0·66	0·41	11th	20	15	1	0	1	1	1	17	2	11	0	22	7	7	19	5	6	12	23	8	3	Greenwich.
4·00	−0·97	29	− 7	7·8	8·1	7·7	2·54	+0·92	0·51	29th	20	17	1	0	1	3	0	16	2	10	0	36	4	16	9	6	6	20	14	11	4	Kew.
2·98	—	21	—	8·2	8·6	7·1	6·51	—	1·42	15th	19	15	6	2	4	1	1	18	0	—	0	43	3	2	18	1	10	18	22	9	7	Eskdalemuir
—	—	—	—	7·3	—	6·7	5·17	+2·66	0·67	26th	20	18	3	1	1	0	3	15	0	—	2	29	9	3	12	5	4	20	19	11	7	Poltalloch.
3·44	−0·83	25	− 5	—	—	—	2·84	+0·79	0·66	29th	16	14	2	0	1	0	—	—	0	8	—	—	—	—	—	—	—	—	—	—	—	Glasgow.
—	—	—	—	6·0	—	6·3	4·45	+1·81	0·72	29th	19	17	1	1	1	0	6	12	6	—	1	20	14	3	3	16	3	17	9	16	9	Rothesay.
—	—	—	—	6·5	—	—	3·97	+1·65	0·78	26th	18	13	0	0	0	0	5	10	2	8	0	33	0	0	9	12	12	12	15	15	15	Colmonell.
3·60	—	26	—	6·7	—	4·8	4·15	+1·88	1·00	29th	18	14	2	1	1	0	3	9	0	7	1	15	0	3	26	0	12	0	31	8	10	Dumfries.
—	—	—	—	—	—	—	3·77	+0·97	0·60	15th	20	13	2	1	2	0	—	—	0	—	1	12	0	2	12	10	23	10	15	0	18	Cally.
4·81	−1·19	35	− 8	7·4	—	6·6	3·00	+0·60	0·45	11th	21	16	1	0	4	0	1	13	0	2	2	32	2	3	15	11	9	15	13	13	9	Douglas.
3·91	−1·52	28	−11	7·6	6·7	6·8	3·06	+1·34	0·69	15th	18	17	1	0	2	1	1	13	0	8	1	58	6	4	11	8	14	15	11	13	8	Southport.
2·76	—	20	—	5·7	—	5·8	3·90	+1·99	0·75	29th	19	15	1	0	1	1	2	2	0	0	0	15	0	10	5	9	15	12	12	14	13	Manchester.
2·98	—	21	—	7·0	7·7	6·1	3·98	—	0·67	29th	19	17	1	0	0	1	1	11	0	—	0	29	7	6	14	8	11	23	6	12	3	Whitwth Pk.
3·01	—	22	—	9·1	—	8·5	6·94	—	1·59	26th	20	19	4	0	3	1	0	21	0	4	0	48	3	2	16	2	9	28	5	16	9	Darwen
3·16	—	23	—	7·9	—	6·9	5·03	—	0·97	15th	19	17	2	0	2	0	3	15	0	7	2	26	8	9	7	0	18	23	9	7	9	Egremont.
3·89	—	28	—	7·0	—	6·1	3·79	+1·76	1·03	15th	18	15	1	0	1	0	0	12	0	5	1	17	16	12	4	3	2	18	15	14	6	Aspatria.
3·65	−1·35	26	−10	7·5	—	6·8	4·69	+2·63	0·86	26th	18	17	3	0	3	0	1	12	0	5	2	27	6	10	6	3	9	24	15	12	5	N'wt'n Rigg.
3·14	−1·86	23	−13	—	—	—	4·97	+2·49	1·18	26th	19	16	3	0	4	2	—	—	0	8	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
3·92	−1·21	28	− 9	8·5	—	8·0	3·75	+1·95	0·78	15th	19	17	1	0	2	0	1	18	0	8	0	53	0	5	9	13	18	16	14	9	6	Blackpool.
3·76	—	27	—	6·4	—	6·2	2·58	+1·01	0·73	26th	17	13	1	0	2	2	2	10	0	—	0	20	1	5	9	12	21	9	14	16	3	Liverpool.
4·34	−0·86	31	− 7	6·7	—	7·5	3·16	+1·38	0·47	29th	19	14	0	0	1	0	3	12	0	—	0	12	0	7	2	24	0	16	11	30	0	Llandudno.
4·87	—	35	—	8·0	8·2	7·7	2·92	+0·96	0·54	29th	17	12	0	—	0	0	0	13	5	—	1	52	4	4	10	7	7	17	15	13	13	Holyhead.
3·47	—	25	—	7·5	—	7·8	6·43	—	1·36	15th	19	19	0	0	0	0	0	12	0	1	0	14	0	0	0	12	9	15	43	9	2	Bettws.
4·40	—	32	—	5·9	—	4·9	3·47	—	0·66	15th	16	16	0	0	0	0	5	7	0	4	3	44	19	4	6	3	2	20	25	9	2	Dwyran.
2·99	—	22	—	8·9	—	—	7·45	—	1·75	26th	22	19	0	0	0	0	1	24	1	6	0	30	15	0	3	12	6	15	12	24	3	Llangamch.
4·17	−1·73	30	−13	6·9	6·3	5·8	3·66	+1·63	1·00	15th	19	16	0	—	0	0	0	4	1	—	2	57	1	8	15	5	6	18	15	12	10	Pembroke.
—	—	—	—	5·8	6·4	5·3	2·07	—	0·30	28th	19	14	0	—	1	0	0	1	1	—	5	54	1	5	20	5	6	11	20	15	7	Portl'nd Bill
3·73	−1·94	27	−14	8·1	8·4	6·0	4·33	+1·99	0·65	26th	18	16	0	0	1	0	1	13	1	6	1	25	3	10	12	8	6	15	15	11	10	Plymouth.
4·21	−1·76	31	−13	8·1	7·2	4·8	5·50	+2·67	1·03	26th	21	17	0	0	1	0	0	11	0	—	0	29	7	13	11	2	3	12	22	10	10	Falmouth.
3·98	—	29	—	—	—	—	5·21	+2·75	1·62	15th	17	15	0	0	2	0	—	—	0	5	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
3·97	−1·70	29	−12	7·8	—	6·6	3·91	+1·81	0·76	15th	19	16	0	—	0	1	0	13	3	—	1	48	1	12	8	4	15	9	20	10	11	Newquay.
3·69	−1·98	27	−14	6·3	—	3·9	4·04	+2·12	0·79	15th	21	14	0	0	3	0	2	4	0	—	0	41	6	3	18	9	13	5	15	13	8	Woolac'mbe.
—	—	—	—	9·1	8·8	—	12·11	—	2·78	26th	22	21	2	0	6	1	0	23	11	—	0	68	0	3	14	10	8	6	28	3	18	Princetown.
—	—	—	—	7·7	7·7	6·2	8·02	—	1·61	26th	22	19	1	0	5	1	1	12	2	—	5	32	5	4	12	10	4	13	22	11	9	Sheepstor.
3·28	—	24	—	6·9	7·2	5·8	3·62	—	1·25	26th	17	14	0	0	0	0	1	10	1	1	3	49	0	5	14	12	4	8	15	23	9	Teignmouth
—	—	—	—	6·3	6·4	6·3	3·26	+1·40	0·64	18th	20	13	0	—	3	0	0	6	0	—	8	40	0	7	10	9	5	16	18	13	12	Malin Head.
—	—	—	—	8·2	8·2	7·9	3·95	+1·06	0·94	15th	22	19	0	—	5	0	0	15	1	—	3	52	1	10	13	1	4	15	20	12	14	Blacksod Pt.
4·91	+0·04	35	0	6·7	—	5·9	4·27	+1·86	0·50	15th	21	19	3	0	11	3	4	9	0	13	1	3	27	1	8	0	12	15	9	4	14	Markree Cas.
—	—	—	—	6·0	6·1	6·0	3·23	+1·29	0·74	29th	20	11	0	—	4	0	0	4	1	—	0	20	0	14	7	1	13	13	17	16	9	Donaghadee.
4·50	−0·30	32	− 2	7·4	—	5·8	3·35	+1·28	0·61	29th	20	17	0	0	3	1	5	13	0	6	0	8	16	2	10	1	8	18	20	8	7	Armagh.
—	—	—	—	—	—	—	3·41	+1·38	0·58	29th	24	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·3	—	4·4	3·75	—	0·80	25th	21	18	3	0	3	2	5	3	0	—	0	14	0	9	4	5	12	14	16	9	21	Newtown-forbes.
4·20	—	30	—	7·3	—	5·5	2·67	—	0·82	29th	17	14	1	0	2	0	2	8	0	10	0	11	9	0	8	7	15	6	17	19	9	Dublin T. C.
4·58	−0·82	33	− 6	7·3	—	5·6	2·75	+0·91	0·84	29th	16	13	1	0	2	0	1	11	0	11	0	19	12	4	13	5	10	8	15	18	5	Phœnix Pk.
—	—	—	—	6·3	—	5·1	2·76	+0·82	0·85	29th	19	13	1	0	5	0	3	5	0	0	1	29	1	8	16	6	9	11	11	21	7	Dublin (City).
4·80	−0·27	35	− 2	6·9	7·1	7·0	3·91	+1·81	0·86	25th	21	14	1	—	4	2	0	2	1	12	0	29	0	8	7	6	14	11	11	22	11	Birr Castle.
4·95	−0·32	36	− 2	6·8	6·7	6·9	5·46	+1·59	0·87	23rd	22	18	0	0	8	3	2	11	0	—	0	50	5	8	11	5	5	18	12	14	12	Valencia.
—	—	—	—	6·2	7·4	6·0	4·57	+1·47	0·83	25th	22	16	1	—	1	1	1	10	2	—	0	34	1	12	11	4	4	16	19	7	16	Roche's Pt.
4·65	—	34	—	6·8	7·2	5·2	3·28	—	0·66	20th	16	13	1	0	5	1	4	11	0	8	3	35	8	10	13	1	5	21	12	10	10	Limerick.
4·45	−1·48	33	−10	7·0	6·9	6·6	4·11	+1·99	0·95	29th	18	16	0	—	1	0	0	3	2	—	2	53	1	8	18	5	3	11	14	16	14	Scilly.
4·03	−2·27	30	−16	7·9	7·5	7·7	2·07	−0·06	0·38	16th	19	14	0	—	0	0	0	13	0	—	0	50	0	7	19	7	8	14	13	15	7	Jersey.
3·74	−2·79	27	−21	7·4	—	6·7	2·69	+0·24	0·37	16th	20	12	0	0	0	1	2	11	1	2	1	41	7	9	18	2	10	12	13	11	8	Guernsey.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, APRIL, 1913.

DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
p Baltasound ...	§	31	47·0	38·0	42·5	—	54	29th	24	10, 11	42·7	—	2·47	—	0·63	26th	20	1	3	3	2	—	5·09	—	35	—
a Fortrose		69	48·3	38·1	43·2	—	56	29th	30	11th	—	—	0·94	—	0·31	11th	9	1	0	0	1	—	4·95	—	35	—
1. SCOTLAND, E.																										
a Crathes	§§	140	51·8	35·9	43·9	—	61	22, 23	23	13th	43·0	41·8	2·81	—	0·54	29th	13	2	1	1	1	15	4·33	—	51	—
p Stonehaven		86	51·0	37·6	44·3	—	62	10th	26	13th	—	—	2·81	—	0·62	28th	15	—	—	—	—	—	4·80	—	34	—
p Balruddery ...	§§	276	54·1	35·1	44·6	—	61	23rd	28	11, 13	—	—	2·03	—	0·43	11th	12	0	0	0	0	—	4·36	—	31	—
a Carnoustie		39	50·2	37·2	43·7	—	58	20th	30	13th	—	—	2·53	—	0·43	29th	14	1	0	0	0	—	4·62	—	33	—
a St. Andrews		20	51·6	37·4	44·5	—	61	22nd	30	13th	43·8	42·6	2·25	—	0·41	30th	12	1	0	1	0	13	4·65	—	33	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	50·7	38·3	44·5	+ 1·1	61	30th	28	13th	—	—	3·18	+1·10	0·69	28th	16	1	1	2	0	—	—	—	—	—
a Bellingham		848	49·8	35·8	42·8	—	60	22nd	27	14th	—	—	2·88	—	0·40	28th	18	4	2	0	2	—	—	—	—	—
a Tynemouth		90	49·7	39·4	44·6	—	59	30th	29	13th	43·6	43·2	2·59	—	0·85	28th	16	1	0	0	0	5	3·08	—	22	—
a Chopwellwood ...		445	51·5	37·4	44·5	—	63	22nd	28	13th	—	—	2·76	—	0·62	26th	18	1	0	0	0	13	3·29	—	24	—
a Ushaw		599	49·9	37·5	43·7	—	62	22nd	29	13th	—	—	3·99	—	0·71	27th	20	2	2	3	2	—	—	—	—	—
a Ampleforth		349	50·9	38·4	44·7	—	63	23rd	29	12th	—	—	2·81	—	0·49	11th	17	1	1	2	1	—	—	—	—	—
a West Witton		605	50·4	38·0	44·2	—	64	22nd	30	12, 13	43·5	40·9	4·41	—	1·16	26th	18	2	1	0	4	5	—	—	—	—
a Fulbeck	¶	180	52·7	38·8	45·8	− 0·1	65	24th	24	13th	—	—	1·79	+0·15	0·48	29th	21	1	0	1	0	12	—	—	—	—
a Rauceby	§	124	53·0	37·9	45·5	—	65	24th	27	13th	46·1	44·5	2·17	+0·27	0·56	11th	20	1	0	1	0	9	4·74	—	34	—
3. ENGLAND, E.																										
a Norwich		93	54·4	39·0	46·7	—	68	27th	29	14th	45·3	—	2·36	—	0·76	11th	18	3	0	2	0	10	4·57	—	33	—
a Peterborough (Eye) ...		16	54·6	38·9	46·8	—	68	29th	26	13th	—	—	1·65	—	0·60	29th	19	2	1	3	0	—	—	—	—	—
a Ridgewell		269	52·8	38·6	45·7	—	64	22nd	27	13th	—	—	1·68	—	0·38	11th	20	1	1	4	0	—	—	—	—	—
a Felixstowe ...		19	52·6	41·2	46·9	+ 0·6	61	30th	29	13th	—	—	1·69	—	0·78	11th	16	1	0	0	0	—	5·10	—	37	—
a Walton-on-Naze		68	52·0	41·0	46·5	—	59	29th	30	13th	—	—	1·74	—	0·51	11th	17	—	—	—	—	12	4·80	—	35	—
a Halstead		139	54·9	38·5	46·7	—	66	29th	26	13th	—	—	1·77	—	0·51	11th	19	2	1	2	0	—	—	—	—	—
a Chelmsford		134	55·0	37·6	46·3	—	66	27th	24	13th	—	—	2·60	—	0·50	11th	18	1	0	1	0	—	—	—	—	—
p Hemel Hempstead ...		535	52·7	36·9	44·8	—	65	24th	26	13th	—	—	3·21	—	0·69	29th	25	1	0	2	0	16	—	—	—	—
a Rothamsted ...	¶§	424	53·5	38·3	45·9	+ 0·1	64	22,23,29	24	13th	—	—	2·91	+1·07	0·61	29th	21	0	2	1	0	—	3·90	−1·10	28	− 8
a Shoeburyness		13	52·9	40·7	46·8	− 0·5	65	27th	30	13th	—	—	2·21	+0·95	0·50	11th	14	0	1	0	0	—	—	—	—	—
a Southend		90	53·8	40·0	46·9	—	66	27th	30	18th	47·5	—	2·01	+0·56	0·43	11th	16	1	0	1	0	13	4·53	—	33	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	50·3	37·7	44·0	− 0·2	62	22, 23	28	12, 13	40·4	42·7	3·16	+1·08	0·70	28th	19	1	0	1	0	10	3·49	—	25	—
a Bradford		439	51·0	38·9	45·0	—	61	23, 24	31	11,12,13	42·8	41·9	3·58	—	0·60	28th	17	1	0	0	0	—	3·21	—	23	—
a Meltham		513	51·2	38·4	44·8	—	63	23, 24	27	13th	43·7	—	5·09	—	1·54	15th	22	1	0	1	0	8	—	—	—	—
a Cheadle	¶	646	51·8	38·3	45·1	+ 0·3	61	24th	28	13th	—	—	3·98	+1·93	0·86	29th	16	—	—	—	—	11	—	—	—	—
a Wellington		207	53·6	39·5	46·6	—	64	23rd	29	13th	—	—	2·90	—	0·44	29th	18	1	0	1	0	—	—	—	—	—
a Bawtry	¶	65	54·2	?	?	?	66	23rd	?	?	—	—	2·07	+0·47	0·50	11th	16	1	0	0	0	—	—	—	—	—
a Matlock		636	52·1	38·3	45·2	—	64	23, 24	26	13th	—	—	3·66	—	0·85	15th	20	1	0	1	0	—	3·15	—	23	—
a Belper		222	53·4	38·3	45·9	—	65	23, 24	26	13th	—	—	2·73	+0·64	0·49	27th	16	1	0	1	0	—	—	—	—	—
a Belper (Quarry Bank) ...		280	52·3	38·9	45·6	—	64	24th	28	13th	—	—	3·22	—	0·73	15th	18	2	0	1	0	—	—	—	—	—
a Mayfield (Staffs)		374	52·1	37·9	45·0	—	62	22,23,24	25	13th	—	—	3·99	—	0·91	29th	19	2	5	2	0	5	3·87	—	28	—
a Strelley		377	52·5	39·0	45·8	+ 0·1	63	23, 24	27	13th	45·4	—	2·44	+0·58	0·56	29th	21	1	1	2	0	—	3·32	−1·18	24	− 9
a Kingston-on-Soar...		125	53·9	39·1	46·5	—	65	23, 24	23	13th	46·5	—	2·11	—	0·45	29th	16	1	0	1	2	—	—	—	—	—
a Sparkhill		425	53·7	38·1	45·9	—	67	23rd	28	13th	—	—	3·69	—	0·63	26th	20	1	3	2	0	5	—	—	—	—
p Rugby		379	54·1	36·0	45·1	− 1·0	66	24th	24	13th	—	—	2·94	—	0·81	29th	18	1	1	1	0	10	—	—	—	—
a Raunds	¶	204	54·1	38·4	46·3	− 0·5	67	29th	22	13th	44·9	45·2	2·48	—	0·68	29th	17	2	2	1	0	8	4·01	—	29	—
a Malvern		520	52·6	40·5	46·6	—	65	23rd	30	13th	—	—	3·95	—	0·78	26th	17	—	—	—	—	—	3·54	—	26	—
a Ross...		214	54·6	40·4	47·5	—	69	23rd	30	8, 13	—	—	3·93	—	0·75	15th	21	0	1	0	0	—	—	—	—	—
a Hereford	¶	291	53·3	40·2	46·8	+ 0·1	66	23rd	29	13th	—	—	4·49	+2·74	0·92	15th	21	0	0	0	0	3	—	—	—	—
a Leamington ...		165	53·0	40·5	46·8	—	64	23, 24	28	13th	48·5	48·3	2·94	—	0·93	29th	18	1	0	1	0	4	3·06	—	22	—
a Cirencester... ...	¶§	446	52·8	38·1	45·5	0·0	65	23rd	25	13th	45·3	45·0	4·30	+2·33	0·83	15th	18	1	0	0	0	4	3·73	−1·50	27	−11
a High Wycombe		249	53·5	39·4	46·5	—	66	23, 24	26	13th	—	—	3·31	—	0·54	29th	19	1	0	3	0	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	53·8	39·8	46·8	—	67	23rd	27	13th	—	—	3·74	—	0·75	15th	19	0	0	0	0	5	—	—	—	—
a Wokingham		216	54·6	35·7	45·2	—	68	29th	19	13th	—	—	2·71	—	0·50	29th	19	0	0	1	0	—	—	—	—	—
a Marlborough ...	¶§	424	52·9	38·6	45·8	− 0·1	66	23rd	23	13th	—	47·2	4·03	+1·90	0·87	15th	19	0	0	1	0	6	3·13	−1·60	23	−11
a Bucklebury ...		409	53·0	38·8	45·9	—	65	23, 29	26	13th	—	—	3·58	—	1·05	29th	17	0	1	2	0	17	—	—	—	—
a New Malden		39	54·9	39·6	47·3	—	68	24th	25	13th	46·4	45·1	2·70	—	0·47	29th	21	0	1	2	0	11	3·52	—	26	—
a Croydon (Addington) ...		472	52·4	39·6	46·0	—	65	24, 29	28	13th	—	—	3·10	—	0·38	29th	22	1	1	2	2	—	—	—	—	—
a Wallington		144	53·7	40·2	47·0	—	67	29th	26	13th	46·3	46·0	2·90	—	0·42	29th	23	1	2	2	1	5	—	—	—	—
a Woking		180	55·3	38·8	47·1	—	69	24th	25	13th	46·4	—	2·28	—	0·59	29th	17	0	0	1	0	5	—	—	—	—
a Margate	¶§	35	52·8	41·7	47·3	+ 0·4	70	27th	33	14th	47·3	47·3	1·81	+0·35	0·47	4th	16	2	1	0	0	2	4·40	−0·80	32	− 6
a Aldershot		231	53·1	39·0	46·1	—	67	29th	24	13th	—	—	2·88	—	0·47	29th	23	0	1	1	2	—	—	—	—	—
a Wisley	¶§	150	54·0	40·0	47·0	− 0·5	69	29th	27	13th	46·8	46·0	2·15	—	0·41	29th	18	0	0	1	0	11	4·11	—	30	—
a Basingstoke		289	53·3	39·5	46·4	—	66	24, 29	25	13th	45·7	45·1	3·54	—	0·87	29th	21	0	1	1	0	3	—	—	—	—
a Sevenoaks		509	52·8	39·1	46·0	—	68	29th	27	13th	45·9	45·0	3·20	—	0·49	1st	23	1	1	2	0	7	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		319	53·7	39·5	46·6	—	68	29th	28	13th	—	—	2·73	—	0·43	11th	19	2	4	2	0	9	—	—	—	—
p Folkestone... ...		121	52·0	42·5	47·3	—	62	28th	32	13th	—	46·1	2·64	+0·82	0·70	4th	17	1	1	3	0	—	4·70	—	34	—
v Bexhill		27	52·2	42·9	47·6	—	63	23rd	32	13th	49·5	—	2·67	—	0·51	11th	19	0	0	0	0	4	4·56	—	33	—
a Worthing	§	36	53·8	41·8	47·8	+ 0·7	64	23, 29	29	13th	48·5	47·6	2·67	+1·07	0·43	11th	19	0	0	2	0	4	4·83	—	35	—
a Bognor		20	53·0	42·6	47·8	—	66	23rd	30	13th	—	47·3	2·04	—	0·40	11th	17	0	1	1	0	—	4·65	—	34	—
a Selsey Bill		21	53·1	42·0	47·6	—	64	23rd	28	13th	—	—	2·13	—	0·44	29th	17	0	1	1	0	2	4·38	—	32	—
a Totland Bay		140	53·2	42·4	47·8	+ 0·9	65	23rd	29	13th	—	—	2·68	+0·93	0·53	15th	17	0	2	1	0	2	4·48	—	33	—
a Sandown		20	54·5	42·7	48·6	—	65	23rd	31	13th	—	—	2·94	—	0·68	29th	18	0	0	1	0	—	4·26	—	31	—
p Bournemouth		145	54·1	41·8	48·0	—	67	23rd	29	13th	47·3	47·1	3·87	—	0·78	29th	17	—	—	—	—	—	4·50	—	33	—

1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in April based on 35 years' observations, 1871–1905.

LOW

29·70 29·75 29·80 29·85 29·65 29·90

HIGH

WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG — 30 Obsns. = 1 Inch —

2. MOVEMENTS OF DEPRESSIONS.

3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

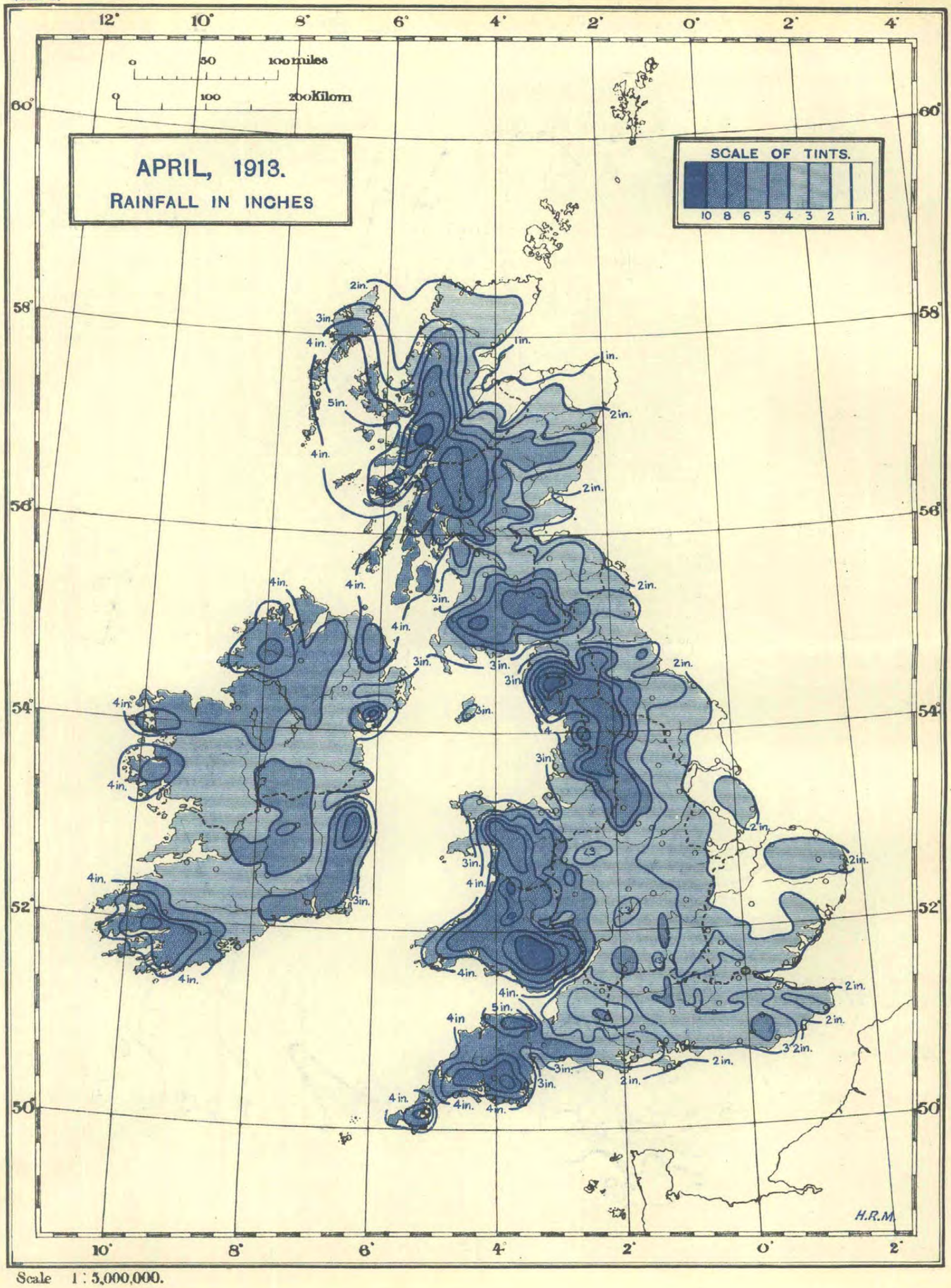
SCALE OF TINTS 48° 46° 44°

44° 46° 47° 48° 49°

Sea temperatures are shown in large figures thus 44°

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS 5 4 3 Hrs.



Scale 1 : 5,000,000.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, APRIL, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	54·7	38·8	46·8	—	66	29th	27	13th	—	45·4	3·36	—	0·49	29th	22	1	2	2	0	9	4·25	—	31	—
a Golders Green	279	53·5	39·9	46·7	—	64	24, 29	28	13th	—	—	3·01	—	0·48	11th	20	1	1	2	0	—	—	—	—	—
p Hampstead (Redington Rd.)	375	53·4	39·2	46·3	—	65	24th	29	13th	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
a South Wimbledon ...	51	55·9	40·2	48·1	—	70	24, 29	27	13th	—	—	2·73	—	0·47	29th	21	1	1	2	0	6	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	51·9	38·7	45·3	—	60	10, 26	30	1st	—	—	4·03	—	0·53	16th	19	1	1	0	0	4	4·19	—	30	—
a Ardnadam	64	52·7	37·4	45·1	—	64	8th	29	1, 3, 7	—	—	5·41	—	1·11	15th	20	1	1	0	3	9	—	—	—	—
a Thorntonhall (Lanarkshire)	440	51·3	35·9	43·6	—	61	8, 27	27	7th	—	—	2·94	—	0·83	15th	18	3	0	0	1	11	4·50	—	32	—
a Kilmarnock ... ¶	90	52·4	37·5	45·0	− 0·2	61	23rd	27	7th	—	—	2·35	—	0·42	15th	18	2	0	0	0	—	4·04	—	29	—
p Ruthwell ... ... §	67	52·5	38·2	45·4	—	63	23rd	29	2nd	—	—	3·94	—	0·90	29th	18	2	0	0	0	—	3·19	—	23	—
7. ENGLAND, N.W.																									
a Scaleby	111	53·2	38·5	45·9	—	65	24th	32	2, 4, 12	—	—	3·49	—	0·69	29th	18	1	0	0	1	—	—	—	—	—
a Seathwaite	422	50·9	38·6	44·8	—	62	23rd	32	7, 19, 26	—	—	14·61	—	3·58	14th	19	5	2	0	0	—	—	—	—	—
a Carnforth	174	52·1	40·1	46·1	—	65	24th	29	13th	—	—	4·30	—	0·90	15th	18	2	1	1	0	4	3·68	—	27	—
a Lancaster	311	52·2	40·1	46·2	—	64	24th	32	11, 12, 13	46·7	47·8	4·94	—	0·90	15th	20	2	0	1	0	18	3·09	—	22	—
a Hutton	81	52·4	39·3	45·9	—	63	24th	30	13th	45·2	44·3	4·08	—	1·04	26th	18	1	2	2	0	8	3·57	—	26	—
a Burnley	459	50·5	38·6	44·6	—	62	23, 24	30	13th	43·6	42·7	5·67	—	1·17	15th	18	—	—	—	—	4	3·63	—	26	—
a Leyland	124	52·6	39·3	46·0	—	63	24th	29	13th	—	—	4·29	—	1·23	26th	18	1	2	1	0	7	3·11	—	22	—
a Bolton	341	52·0	39·6	45·8	—	63	23, 24	32	12th	44·0	43·1	5·19	—	1·03	26th	20	3	1	2	0	6	1·95	—	14	—
a Blundellsands	34	52·5	41·0	46·8	—	63	24th	32	13th	—	—	2·92	—	0·68	26th	20	1	1	0	0	2	—	—	—	—
a Hoylake ... ... §	30	53·8	40·9	47·4	—	63	24th	34	8th	—	—	2·34	—	0·57	26th	17	—	—	—	—	2	4·08	—	29	—
a Rhyl	30	52·5	40·8	46·7	—	62	24th	30	13th	—	—	2·23	+0·84	0·45	29th	20	—	—	—	—	2	4·28	—	31	—
a Colwyn Bay	82	53·5	41·9	47·7	—	62	24th	32	13th	—	—	3·03	—	0·65	26th	18	0	0	0	1	—	4·25	—	31	—
a Llanberis (Pen-y-gwryd)	913	48·7	37·2	43·0	—	61	23rd	29	13th	—	—	13·36	—	3·52	15th	19	0	3	0	3	—	—	—	—	—
a Macclesfield	500	52·2	39·1	45·7	—	65	21st	30	8, 13	—	—	3·84	—	0·76	29th	17	0	1	1	0	—	—	—	—	—
a Northwich	117	54·7	40·1	47·4	—	67	22nd	30	13th	—	—	3·56	—	0·50	26th	19	2	4	2	2	—	—	—	—	—
a Hawarden Bridge... ¶	22	52·9	42·0	47·5	+ 0·6	65	24th	31	13th	—	—	2·55	+1·36	0·80	26th	16	—	—	—	—	—	—	—	—	—
a Ruthin	449	51·9	39·5	45·7	—	63	22, 23	32	8, 13	—	—	3·39	—	0·73	26th	20	0	3	0	0	—	—	—	—	—
a St. Asaph	479	51·9	39·5	45·7	—	61	22, 23	32	13th	—	—	2·49	—	0·57	26th	18	0	0	0	0	12	—	—	—	—
a Welshpool	255	53·9	39·7	46·8	—	68	23rd	30	8, 13	—	—	4·64	—	1·19	26th	20	0	2	0	6	—	—	—	—	—
p Aberdovey ... ... §	22	53·2	42·6	47·9	—	65	23rd	36	8, 12, 13	—	—	4·85	—	0·97	26th	20	—	2	1	—	—	3·68	—	27	—
8. ENGLAND, S.W.																									
a Aberystwyth ... §	59	52·3	43·2	47·8	—	58	22, 23	34	8th	—	—	4·86	—	1·04	15th	19	0	2	0	0	—	3·29	—	24	—
a Gwernyfed	374	52·1	38·3	45·2	—	65	23rd	28	8th	—	—	3·72	—	0·53	26th	21	0	0	0	2	—	—	—	—	—
a Haverfordwest	93	52·1	41·0	46·6	—	65	23rd	33	13th	—	—	4·94	—	1·25	15th	21	0	1	0	2	—	4·04	—	29	—
a Swansea	24	53·2	41·8	47·5	—	63	23rd	31	7th	49·0	48·9	5·94	—	1·32	15th	17	0	1	0	0	8	3·80	—	28	—
a Clifton ... ... ¶	229	54·1	42·4	48·3	+ 0·9	68	23rd	34	8th	—	—	3·04	+0·78	0·88	15th	16	—	—	—	—	0	4·08	—	30	—
a Weston-Super-Mare ...	29	53·8	42·1	48·0	—	67	23rd	34	13th	—	—	2·68	—	0·45	15th	18	0	1	0	0	4	3·58	—	26	—
a Minehead	104	53·4	41·6	47·5	—	63	23rd	34	2nd	—	—	3·91	—	1·15	15th	19	0	0	0	0	2	3·01	—	22	—
a Ilfracombe	24	52·6	43·7	48·2	—	60	23rd	39	13, 26	48·3	48·6	5·58	—	1·18	15th	23	0	2	0	0	0	3·67	—	27	—
a Arlington... ... ¶	613	50·7	39·1	44·9	− 0·4	64	23rd	32	12th	—	—	5·67	+2·68	1·67	15th	18	0	0	0	0	—	—	—	—	—
a Cullompton ... ¶§	202	54·0	40·8	47·4	− 0·5	68	23rd	32	17th	47·9	—	4·19	+1·73	1·40	26th	21	0	0	0	0	7	3·36	−1·74	25	−12
a Rousdon	515	51·1	40·1	45·6	− 0·1	63	23rd	31	8th	47·9	47·5	3·17	+0·78	0·42	20th	18	0	0	0	4	4	3·58	—	26	—
a Sidmouth	147	52·7	41·9	47·3	—	64	23rd	33	8th	—	—	4·08	—	0·95	26th	20	0	0	0	0	5	—	—	—	—
a Killerton	160	53·7	40·2	47·0	—	66	23rd	32	8th	—	—	4·20	—	1·08	26th	19	0	0	0	1	7	—	—	—	—
a Shaftesbury ... ¶	722	51·0	38·1	44·6	− 0·9	64	23rd	30	8, 13	46·0	45·8	2·61	+0·17	0·50	29th	16	—	—	—	—	—	—	—	—	—
a Dorchester...	314	52·3	40·1	46·2	—	65	23rd	30	13th	—	—	3·41	—	0·50	15th	20	0	0	0	1	—	3·92	—	29	—
a Weymouth	21	54·2	42·9	48·6	—	67	23rd	30	13th	—	—	2·05	—	0·32	15th	17	0	0	0	0	—	4·11	—	30	—
a Torquay	12	53·3	43·6	48·5	—	64	23rd	37	1, 8, 17	—	—	4·05	—	1·39	26th	19	0	2	1	0	0	3·75	−2·08	27	−16
p Paignton	11	53·5	41·4	47·5	—	65	23rd	34	1, 17	—	—	4·15	—	1·09	26th	19	0	0	0	0	6	3·56	—	26	—
a Salcombe	300	53·2	42·6	47·9	—	64	23rd	36	8th	—	—	3·66	—	0·68	15th	18	0	0	0	2	—	3·65	—	27	—
a Tavistock	374	51·6	40·4	46·0	—	65	23rd	33	1, 17, 20	—	—	6·24	—	1·19	15th	22	1	3	3	1	8	—	—	—	—
a Ashburton	583	52·2	41·1	46·7	—	64	23rd	34	8th	—	—	7·53	+4·17	2·14	26th	21	0	0	0	1	—	—	—	—	—
a Fowey	51	53·7	43·4	48·6	—	65	23rd	34	8th	—	—	4·34	—	0·76	15th	21	0	0	1	1	—	3·92	—	29	—
a Redruth	397	51·5	41·6	46·6	—	64	23rd	33	8th	—	—	6·35	—	1·36	26th	20	0	4	0	1	—	—	—	—	—
a Penzance	54	53·8	44·5	49·2	—	65	23rd	38	8th	—	—	4·61	—	0·76	26th	22	0	0	0	2	—	4·00	—	29	—
9. IRELAND, N.																									
p Dunfanaghy	54	51·2	39·2	45·2	—	56	21, 29	35	13, 26	—	—	5·27	—	0·95	25th	19	0	4	1	0	—	—	—	—	—
a Lisburn	207	55·2	37·1	46·2	—	65	8th	31	1, 7	—	—	3·42	—	0·66	29th	17	0	3	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin) ...	67	53·1	39·6	46·4	+ 0·4	59	8, 22	31	1st	—	—	2·70	+0·76	0·73	29th	18	1	3	1	0	18	—	...	—	—
a Kingstown...	42	52·2	41·6	46·9	—	58?	8th	34	1st	—	—	2·86	—	1·00	29th	15	—	—	—	—	—	4·31	—	31	—
p Clongowes Wood Col. ...	245	53·5	37·5	45·5	—	63	23rd	29	13th	—	—	2·84	—	0·83	29th	22	1	0	3	2	6	5·41	—	39	—
a Mountmellick	239	52·2	38·3	45·3	—	60	8, 21–23	31	26th	—	—	4·98	—	1·00	29th	23	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow...	256	50·3	39·5	44·9	—	58	22nd	34	12, 25, 28	—	—	3·51	—	0·75	29th	15	0	0	0	0	—	—	—	—	—
a Kilkenny ... ... ¶	195	53·1	39·6	46·4	− 0·7	62	23rd	30	20th	—	—	3·96	+1·76	0·87	29th	21	1	1	0	0	0	—	—	—	—
a Cahir ... ... ¶	199	53·6	39·2	46·4	− 0·9	62	22, 23	30	13th	—	—	4·47	—	1·04	25th	20	1	1	1	0	—	—	—	—	—
a Wexford	99	52·2	41·1	46·7	—	62	22nd	34	1st	—	—	4·03	—	0·80	29th	18	0	2	0	2	—	—	—	—	—
a Waterford ... ... ¶	100	53·7	41·0	47·4	+ 0·8	65	21st	34	1, 26	—	—	4·79	+2·16	0·92	29th	16	2	4	0	0	—	—	—	—	—
p Waterford Trg. Coll. ...	20	53·6	41·1	47·4	—	63	22nd	32	20th	—	—	4·73	—	0·95	29th	17	1	2	0	0	—	—	—	—	—
a Foynes ... ... ¶	108	53·1	39·0	46·1	− 1·2	64	21st	34	8, 13, 19	—	—	3·45	+1·01	0·83	21st	21	2	2	1	1	—	—	—	—	—
a Killarney ... ... ¶	174	54·6	39·3	47·0	− 0·8	60	6, 23	30	13th	—	—	4·43	+1·06	0·91	15th	22	—	—	—	—	—	—	—	—	—
a Ballinacurra ... §	24	52·9	40·4	46·7	—	61	22nd	31	20th	—	—	3·73	—	0·63	20th	18	1	2	0	0	—	5·03	—	37	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	53·3	44·9	49·1	+ 0·3	63	23rd	38	13th	—	—	2·63	+0·18	0·37	16th	18	—	—	—	—	—	3·77	−2·66	28	−19

DISTRICT VALUES—APRIL, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	62	24	49·3	37·0	42·9	0·0	44·2	+0·4	—	—	3·26	+0·31	18	4·13	−0·49	29	− 4	7·1	7·3	6·5	30·64	4th	28·57	26th
Eastern.																								
1. SCOTLAND, EAST ...	66	18	50·7	35·7	42·9	−0·4	43·1	+0·5	41·9	+0·1	2·23	+0·34	16	4·36	−0·46	31	− 3	6·9	7·1	7·2	30·58	4th	28·82	26th
2. ENGLAND, N.E. ...	66	24	51·6	38·8	44·9	+0·6	44·2	0·0	43·3	+0·3	2·60	+1·02	18	3·94	−1·17	28	− 9	7·1	—	6·7	30·40	4th	29·12	19th
3. ENGLAND, EAST ...	69	23	52·9	39·7	46·0	+0·4	46·5	+0·1	46·3	+0·5	2·16	+0·61	18	4·45	−0·88	32	− 7	7·2	7·3	6·5	30·23	3rd	29·35	19th
4. MIDLAND COUNTIES	69	22	53·1	39·0	45·8	+0·2	44·8	+0·2	44·0	+0·4	3·33	+1·56	18	3·60	−1·27	26	− 9	7·6	7·5	6·9	30·26	3rd	29·32	16, 27
5. ENGLAND, S.E. ...	70	19	53·3	41·0	46·9	+0·1	47·3	+0·9	46·7	+1·4	2·53	+0·91	18	4·28	−1·07	31	− 8	7·2	7·5	7·2	30·16	9, 14	29·46	16th
Western.																								
6. SCOTLAND, WEST ...	64	25	51·7	38·6	45·0	+0·3	45·0	—	44·3	+0·7	3·71	+0·95	19	4·13	−1·00	30	− 7	7·0	—	6·3	30·48	4th	29·02	26th
7. ENGLAND, N.W. ...	68	29	52·2	40·2	45·9	+0·4	45·3	+0·6	44·5	+0·5	3·88	+1·79	18	3·89	−0·96	28	− 7	7·3	7·5	6·9	30·32	4th	28·99	26th
8. ENGLAND, S.W. ...	68	27	52·2	41·1	46·4	−0·3	47·5	+0·4	46·9	+0·9	4·37	+2·02	19	3·67	−1·79	27	−13	7·6	7·4	5·6	30·28	9th	28·98	26th
9. IRELAND, NORTH ...	65	29	51·8	38·7	45·0	−0·6	45·8	0·0	45·2	−0·1	3·66	+1·27	21	4·71	−0·10	34	0	6·7	7·0	6·2	30·46	4th	28·53	26th
10. IRELAND, SOUTH ...	65	29	53·2	40·0	46·3	−0·8	46·8	+0·8	46·2	+0·5	4·20	+1·56	20	4·71	−0·58	34	− 4	6·8	7·1	5·9	30·38	9th	28·72	26th
11. ENGLISH CHANNEL ...	65	31	53·2	44·0	48·4	−0·4	49·1	+0·5	48·6	+1·3	2·94	+0·98	18	4·08	− 2·32	30	−17	7·4	7·2	7·0	30·30	9th	29·11	26th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Ramsgate ...	5·16	—	38	—
Broadstairs ...	5·34	—	39	—
Littlestone§ ...	4·77	—	35	—
Hove	4·78	—	35	—
Westbourne ...	4·45	—	33	—
LONDON.	hr.		%	
Bunhill Row ...	3·22	−0·71	23	− 6
Plumstead ...	3·26	—	24	—
8. ENGLAND, S.W.				
Tenby	4·10	−2·00	30	−15
Port Talbot ...	3·21	—	23	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	2·19	—	0·52	11th	18
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	4·82	—	1·32	15th	17
Forest of Dean (900 ft.)	5·59	—	1·26	26th	18

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. * (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked § are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, May 23, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. V. MAY, 1913. [*Price 6d.*

A VERY VARIABLE MONTH.

Pressure, Winds and Weather.—The period now under review was marked by rather variable conditions of atmospheric pressure, so that the British Isles experienced many types of wind and of weather. During the first twelve days the distribution of pressure was of a fairly constant character. There was a well-defined anticyclone covering the usual region of almost permanent high pressure along the middle belt of the Atlantic, sometimes expanding westward to Newfoundland and the United States, and eastward to the Spanish Peninsula. Another and equally well marked and extensive anticyclone occupied the northern regions, at first embracing the north-eastern and northern portions of Europe and thence across the Arctic Sea, then drifting gradually westward, and taking up a position between Norway, Iceland, and Greenland. Separating these two high pressure systems was a great belt of low pressure, at first extending from Southern Greenland across this country to Western, Central and Eastern or South-Eastern Europe, but as the northern anticyclone moved westward the valley of low barometer readings was driven from Greenland down to the neighbourhood of Newfoundland. Throughout the opening week of the month a cyclonic system of considerable extent lay all but motionless on the Upper Atlantic, having its central space in about 57° N., 25° W. On its eastern side two "V" shaped secondaries were developed. One moved across St. George's Channel on the 3rd, and formed a separate disturbance over South-Eastern England on the following day, the barometer sinking below 29·4 in. at some stations in that locality. The other secondary crossed the north of Ireland in the night of the 5th, became detached and formed a separate area over the Irish Sea next morning, and dispersed in the evening of the same day. The parent system out on the ocean now began to advance slowly on a south-easterly path, its centre arriving near the Kerry coast on the morning of the 8th. Here its progress was arrested suddenly, and during the next four days the centre wandered about very irregularly between the 10th and 20th meridians, returning to the Kerry coast on the morning of the 12th, when it struck off to the south-eastward down the Bay of Biscay to Eastern Spain. This proved the deepest disturbance of the month, the barometer descending to 28·86 in. at Blacksod Point on the evening of the 8th.

As the depression was crossing the Bay, on the 13th, the Atlantic and the Arctic anticyclones expanded towards each other and became one vast system, and until the 16th a high pressure type of conditions ruled over these islands, the maximum pressure for the month, above 30·4 in., being attained over Scotland and the north of Ireland on the 14th. From the 17th to the 19th the anticyclone was a little to the westward, on the Atlantic, while low pressure areas occupied the North Sea region, in one well-developed system the barometer sinking to 29·19 in. at Lerwick on the 18th, the lowest reading registered over Scotland.

There was a considerable change in the distribution on the 20th, and during the remainder of the month an anticyclone was in the ascendant over Western Europe and most of the time over the British Isles or the greater part of them, while depressions existed about the northern portion of the Atlantic and thence north-eastward towards the Arctic Ocean, three systems passing up between Iceland and the Faröe between the 22nd and 29th, and one arriving over Ireland on the 30th, moving up to the Faröe next day.

For the entire month the mean pressure was everywhere below the normal, the deficiency ranging from 0·06 in. at Jersey, Yarmouth and Lerwick, and 0·07 in. at Dover to 0·15 in. at Castlebay and Malin Head, and 0·17 in. at Blacksod Point. The general distribution indicated a region of minimum pressure out on the Atlantic, the lowest mean values being 29·81 in. on the coast of Mayo, and 29·82 in. in the Hebrides. Thence the results increased to 29·84 in. off the south coast of Iceland on the one side, and to 29·95 in. at Jersey, on the other side, means a little above 30 in. being found only over Spain and the Baltic region. With as many as five distinct types of pressure distribution the winds were from every quarter of the compass.

Through the first three weeks the weather generally was of a breezy character, the wind exceeding the force of a strong breeze nearly every day at various stations. The unsettled type of conditions prevalent during the opening days produced strong or high winds, but no gales. The weather, however, was of a very disturbed character, thunderstorms visiting many parts of Ireland and a few isolated places in Britain on the 1st, no important fall of rain or hail being recorded. Next day thunderstorms occurred over the southern half of England, the precipitation being again inconsiderable, but over South-Western Ireland there was an inch of rain. With the advance of the "V"-shaped secondary of the 3rd rain was general throughout the kingdom, numerous stations in England registering ¾ in. and upwards, to 1·9 in. at Llanberis (Pen-y-Gwryd). On the 4th and 5th there were a few thunderstorms, mostly in Scotland, but there were very few instances of heavy rainfalls, 1·1 in. at Newcastle (Wicklow) and Cally on the latter date.

A more windy period set in on the 6th, lasting until the 11th, an Easterly gale (force 8) to a strong gale (force 9) setting in at Lerwick and continuing through 31 hours, a Southerly to South-Easterly gale being felt at Wick. Squalls of 45 miles per hour were registered at Aberdeen, and of 51 miles at Pendennis Castle. Heavy rains were experienced in many districts, on the 6th up to 1·1 in. at Valencia Island, at Ford and Cruachan (Argyll), and on the Tyne, 1·6 in. at Alnwick Castle; and on the 7th exceeding an inch in Devon and Cornwall, as much as 2·1 in. at Princetown.

Under the influence of the deepest depression of the month a gale from between South and East blew at a number of stations, a gale to a strong gale being renewed at Lerwick on the 8th, and holding uninterruptedly through 64 hours. At Malin Head a whole gale (force 10) was reported. The anemometrical records show that gusts of 54 miles per hour occurred at Holyhead, 55 miles at Quilty, and 70 miles at Pendennis. On each of the next three days the force of a gale was reported locally. This more windy period was attended by numerous thunderstorms, especially on the 10th, when the northern half of Britain was affected, and there were many heavy falls of rain and hail. On the 9th the falls ranged up to 1·2 in. at Carnoustie, and 1·6 in. at Crathes; and next day to 1·6 in. at Dyce (Aberdeen), and 2·8 in. at Crathes. The rainstorm at Crathes, with an East wind, lasted continuously through more than 36 hours, the yield of water being 4·4 in.

Between the 15th and the 19th the conditions were again of a windy character, a gale from about North-East, North, and North-West blowing on various coasts, a strong gale at Portland Bill on the 15th, at Nairn on the 17th, and at Lerwick on the 19th. The Brighton anemometer registered gusts of 48 miles an hour on the 15th. There was, however, an important change in the type of weather. In some western districts rain continued frequently, but in small quantities, excepting for a fall of from 1 in. to 1½ in. over Western Scotland on the 20th. Generally over the Eastern and Southern districts a dry spell set in between the 9th and 12th, no rain being measured for more than a fortnight in places, on as many as 19 consecutive days at Norwich and Temple Bruer. At a large number of stations the drought was interrupted by only one or two insignificant showers.

Until about the 22nd cold weather ruled, notably round the 6th and 7th, when low temperatures were common, frost in many localities, a minimum reading of 27° at Wokingham, and afternoon maxima below 45° in several districts, 42° at Balmoral and Crieff. Suddenly, unusual heat set in, and from the 25th to the 30th day readings of 80° and upwards were numerous over England, 84° on the 26th and 27th at some London stations. The nights also were very warm, with many minima above 55°, as high as 61° at Preston (Brighton), and 62° at Dover and Eye (Peterborough). With the heat came more or less severe thunderstorms to nearly all parts of England, from the 26th to the 31st, resulting in a number of casualties. But there were singularly few heavy rain and hail falls, generally less than ½ in., Clacton and Felixstowe however exceeded an inch on the 27th. Of heavy falls in short periods, New Malden had 0·09 in. in 3 minutes on the 29th, Meltham 0·21 in. in 4½ minutes on the 30th, and Leyland 0·21 in. in 10 minutes on the 31st. At Warlingham, on the 27th, there was a sudden drop of 13° in the temperature, on the breaking of a thunderstorm. The same storm at Southend was noted as the heaviest for ten years, the hailstones being 1¼ in. in diameter.

A brilliant meteor was observed at Tavistock on the 26th. It was visible for half a minute.

All round our coasts the temperature of the sea water was higher than during April, to the extent of 5° locally. Off the west of Ireland the water was little warmer than the air on shore, but elsewhere it was colder, by as much as 4° between the Tay and the Tyne.

There was a marked increase in the frequency of coastal fogs, in the east during the first fortnight, and in the south and west during the very warm weather at the end of the month, often dense, and leading to numerous casualties.

Rainfall.—While for the country generally precipitation was in excess of the normal, many individual stations in the east and south returned a deficiency. Cawdor had only 52 per cent., Dungeness 56 per cent., and Folkestone and Hastings 59 per cent., whereas at the other extreme Foynes had 199 per cent., Waterford 213, and Valencia 244 per cent. The aggregates for the month ranged from 0·5 in. at Fortrose, 0·7 in. at Dungeness and Bexhill, and 0·8 in. at Tenterden to 7·7 in. at Copper Mill (Snowdon) and Glenlyon, 7·8 in. at Valencia Island, and 11·1 in. at Loan, Loch Quoich. Many stations in the drier neighbourhoods had rain on seven to nine days only, but elsewhere the frequency was over 20 days at a considerable number of places, 25 at Oban, Cruachan, Glasgow, Cong and Markree Castle.

Bright Sunshine.—The duration of insolation was less than usual nearly everywhere. It was only 69 per cent. of the normal at Stonyhurst and Valencia, 71 at Southport, Markree Castle and Phœnix Park, Dublin, and 72 per cent. at Durham and Stornoway, but Kew Observatory returned 105 per cent., Cirencester and Rothamsted 106, Eastbourne 108, and Westminster 120 per cent.

(30568—24.) Wt. 196—786. 1475. 6/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.		Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.								EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.								
							Mean of				Absolute Maximum and Minimum.						Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
				Station Level.	Diff. from Av.	Mean Sea Level.	A. Max.	B. Min.	Mean of A and B.	Diff. from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
			Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																												
Islands	*a* Castlebay	7, 1, 9	48	9·748	−·149	9·816	52·2	44·5	48·4	−0·5	61	12th	39	19th	—	—	47·8	50·5	48·4	2·1	3·1	2·4	·281	·290	·281	85	79	83
	p Deerness ... §	9, −, 9	163	9·674	—	9·847	51·0	43·9	47·5	+1·1	58	25,29,31	38	20th	—	—	47·4	—	45·6	2·1	—	1·6	·280	—	·273	85	—	88
	a Lerwick ... ¶	7, 1, 9	59	9·812	−·063	9·876	50·6	43·5	47·1	+1·9	55	22, 29	38	20th	—	—	46·7	49·0	46·2	2·2	3·3	2·1	·268	·270	·265	85	77	86
	a Stornoway... ¶§	7, 1, 9	52	9·772	−·125	9·822	53·0	43·5	48·3	+1·0	60	12th	36	15th	—	—	47·2	51·3	47·1	1·6	3·3	2·0	·287	·296	·276	89	78	86
Main-land	*a* Wick ... ¶	7, 1, 9	94	9·746	−·106	9·852	51·4	42·5	47·0	−0·3	64	25th	35	20th	—	—	46·5	49·1	46·0	1·1	2·1	0·8	·291	·297	·292	92	85	94
	p Strathpeffer ¶§	9, −, 9	210	9·605	—	9·828	57·6	42·1	49·9	+1·7	70	30th	35	1st	—	—	50·8	—	48·4	3·5	—	2·9	·285	—	·271	77	—	81
	a Glencarron § ¶	9, −, 9	504	9·286	—	9·830	53·6	40·8	47·2	−0·8	70	30th	33	15th	—	—	48·0	—	45·9	3·0	—	2·5	·263	—	·254	79	—	83
	p Ft. Augustus § ¶§	9, −, 9	73	9·757	—	9·832	55·9	42·8	49·4	0·0	71	30th	32	2nd	—	—	48·0	—	48·1	1·9	—	1·7	·287	—	·294	87	—	88
	p Ft. William § ¶	9, −, 9	38	9·799	—	9·835	56·5	42·8	49·7	−0·3	72	30th	34	2nd	—	—	49·6	—	48·5	3·1	—	3·1	·285	—	·270	80	—	79
	p Kingussie ... §	9, −, 9	828	8·954	—	9·850	54·6	39·4	47·0	—	68	30th	29	2nd	—	—	48·8	—	46·0	4·4	—	3·3	·245	—	·238	70	—	77
	p Dunrobin ... §	9, −, 9	16	9·828	—	9·841	53·2	42·7	48·0	−0·2	64	25, 30	36	2nd	50·4	—	48·9	—	47·0	2·7	—	2·5	·282	—	·264	81	—	83
1. SCOTLAND, E.																												
	a Nairn ... ¶§	7, 1, 6	82	9·746	−·119	9·842	57·3	40·3	48·8	−0·2	74	30th	31	2nd	—	—	47·4	54·3	47·8	2·7	5·2	4·5	·264	·288	·280	82	69	71
	p Gordon Castle § ¶	9, −, 9	107	9·750	—	9·863	57·5	42·6	50·1	+1·0	71	30th	32	13th	—	—	51·4	—	48·1	4·0	—	2·4	·281	—	·277	74	—	78
	Aberdeen ... ¶§	9, 3, 9	90	9·786	−·099	9·883	53·3	43·5	48·4	+0·1	69	25th	37	20th	—	45·5	49·1	51·2	48·1	3·5	4·3	3·3	·270	·277	·265	78	74	79
				9·776	−·109	9·873			48·4	+1·2																		
	a Balmoral ... § ¶	9, 3, −	927	8·846	—	9·846	56·8	37·6	47·2	—	66	16th	27	20th	—	—	44·7	55·2	—	2·1	2·5	—	·249	·365	—	85	84	—
	p Braemar ... §	9, −, 9	1114	8·653	—	9·847	53·6	37·6	45·6	−0·5	67	30th	28	2, 13	—	—	47·6	—	44·7	3·0	—	2·0	·260	—	·251	79	—	86
	p Dundee ... §	9, −, 9	164	9·707	—	9·881	56·4	42·5	49·5	+0·1	68	16th	37	16, 19	—	—	49·8	—	47·4	2·0	—	1·7	·307	—	·286	87	—	88
	p Crieff ... § ¶	9, −, 9	436	9·403	—	9·883	55·8	41·2	48·5	−1·6	71	30th	35	2, 19	—	—	48·8	—	46·7	2·8	—	2·3	·278	—	·266	80	—	84
	a Leith ... ¶	7, −, 6	37	9·813	−·117	9·858	56·3	43·4	49·9	−0·2	71	30th	38	2, 12, 19	—	—	47·9	—	52·2	2·4	—	4·6	·276	—	·277	84	—	71
	p West Linton S ¶	9, 3, 9	805	8·996	—	9·864	55·7	38·8	47·3	−0·4	72	30th	29	2nd	—	—	48·9	52·8	44·7	2·7	4·3	1·4	·282	·291	·264	81	73	89
	p Marchmont § ¶§	9, −, 9	500	9·350	—	9·888	55·4	41·0	48·2	+0·3	71	30th	32	16th	49·1	—	49·8	—	46·9	3·2	—	2·0	·280	—	·274	79	—	86
2. ENGLAND, N.E.																												
North	*p* Whitby	9, −, 9	158	9·724	—	9·888	59·0	44·2	51·6	+2·7	78	30th	35	20th	—	—	55·1	—	48·4	4·5	—	1·8	·320	—	·301	74	—	88
	p Cockle Park §	9, −, 9	331	9·538	—	9·894	55·0	42·1	48·6	—	66	24, 25	32	16th	48·9	46·4	50·4	—	46·1	3·1	—	1·5	·294	—	·281	80	—	89
	a Shields ... ¶	7, −, 6	117	9·772	−·081	9·898	55·0	41·9	48·5	−0·1	68	25th	34	16th	—	—	46·7	—	51·5	1·1	—	3·1	·293	—	·303	92	—	79
	p Durham ... ¶§	9, −, 9	352	9·515	—	9·891	56·6	42·5	49·6	+0·8	73	30th	31	16th	—	—	51·4	—	47·3	2·7	—	1·5	·318	—	·295	83	—	90
	p Rounton ... ¶§	9, −, 9	245	9·617	—	9·876	59·0	43·3	51·2	+3·0	76	30th	35	20th	51·7	—	51·8	—	48·2	3·1	—	1·8	·307	—	·293	79	—	88
	p Scarborough ¶§	9, −, 9	127	9·780	—	9·904	56·0	45·1	50·6	+1·3	70	25th	39	19, 20	—	47·9*	50·6	—	49·3	2·0	—	2·0	·320	—	·304	86	—	86
	p York ... ¶§	9, −, 9	53	9·857	—	9·907	61·5	45·3	53·4	+2·4	78	30th	38	17, 19, 20	52·0	48·6	53·8	—	50·8	3·9	—	2·7	·311	—	·304	75	—	82
South	*a* Spurn Head ¶	7, 1, 6	28	9·863	−·083	9·897	57·1	45·5	51·3	+1·5	76	29th	40	7, 17	—	—	49·9	55·1	52·5	1·8	3·9	2·8	·313	·329	·322	88	75	81
	a Lincoln ... ¶	9, −, −	42	9·876	—	9·912	62·7	45·4	54·1	+1·9	80	30th	36	7th	52·8	48·1	54·7	—	—	3·7	—	—	·333	—	—	77	—	—
	a Skegness ... §	9, −, −	16	9·897	—	9·906	59·0	45·5	52·3	—	77	25, 28	36	19th	—	—	53·2	—	—	3·1	—	—	·323	—	—	80	—	—
	p Hull	9, −, 9	12	9·909	—	9·915	60·4	45·7	53·1	+2·9	80	30th	36	17th	51·7	47·5	54·5	—	51·5	4·0	—	2·9	·318	—	·307	75	—	81
3. ENGLAND, E.																												
North	*p* Lowestoft	9, 3, 9	77	9·844	—	9·926	58·3	46·8	52·6	+2·5	74	30th	38	19th	55·2	51·1	55·0	55·7	51·3	3·0	3·0	1·6	·357	·364	·341	82	81	89
	p Cromer ... §	9, −, 9	139	9·770	—	9·914	60·7	47·1	53·9	—	80	30th	40	19, 20	—	—	53·4	—	51·4	2·4	—	1·1	·342	—	·351	84	—	92
	p Lit. Massingham ...	9, 3, 9	280	—	—	—	62·3	45·5	53·9	+2·8	80	29, 30	37	7, 19	—	—	55·7	59·4	50·8	4·1	5·7	2·4	·333	·343	·311	75	68	84
	a Yarmouth ... ¶	7, 1, 9	27	9·895	−·056	9·923	58·7	47·2	53·0	+3·0	77	30th	38	19th	55·4	51·7	50·6	55·8	52·1	2·0	3·6	2·5	·318	·347	·324	86	77	83
	p Geldeston ... ¶§	9, −, 9	47	9·884	—	9·927	62·8	46·4	54·6	+3·7	80	25, 29	36	3, 20	—	—	55·7	—	51·7	3·9	—	1·9	·338	—	·334	76	—	88
South	*p* Cambridge... ¶§	9, −, 9	43	9·866	—	9·907	63·9	45·1	54·5	+2·3	79	25,28,30	33	7th	54·9	51·2	56·4	—	51·4	4·8	—	2·3	·332	—	·329	72	—	85
	a Clacton ... ¶§	7, 1, 9	54	9·861	−·080	9·917	60·3	47·9	54·1	+1·8	75	27th	38	7th	55·1	52·2	51·9	57·8	53·6	1·8	3·6	2·4	·339	·375	·344	88	78	83
	p Woburn	9, −, 9	294	9·619	—	9·933	62·4	44·1	53·3	—	79	26th	35	7, 17	—	—	54·6	—	51·6	4·0	—	2·5	·329	—	·321	76	—	84
	p Bennington ...	9, 3, 9	411	—	—	—	63·5	44·2	53·9	+2·7	80	26th	34	7th	54·3	50·7	55·0	60·9	50·9	4·2	7·6	2·5	·328	·327	·318	75	61	83
	p Berkhamsted ...	9, −, 9	397	9·508	—	9·933	63·4	43·4	53·4	+2·3	80	26th	33	7th	55·1	—	54·7	—	50·4	4·3	—	2·3	·320	—	·314	74	—	84
4. MIDLAND COUNTIES.																												
East	*a* Garforth	9, −, 9	198	—	—	—	59·9	41·9	50·9	—	76	30th	32	3, 7, 20	49·7	46·9	53·5	—	49·1	3·8	—	2·3	·316	—	·298	76	—	85
	p Huddersfield ...	9, 3, 9	411	9·449	—	9·894	59·3	43·7	51·5	—	77	30th	34	7th	51·4	46·2	51·7	57·0	49·4	3·3	5·6	2·5	·306	·322	·298	79	69	83
	p Sheffield ... §	9, −, 9	450	9·422	—	9·903	59·9	45·1	52·5	+1·6	76	30th	35	7th	50·8	46·7	53·0	—	51·1	4·0	—	3·2	·306	—	·302	75	—	80
	a Worksop	9, −, 9	67	9·842	−·096	9·908	62·9	44·0	53·5	+2·4	78	26, 30	34	7th	52·5	49·5	55·1	60·6	—	4·5	6·9	—	·315	·331	—	72	63	—
	p Buxton	9, 3, 9	997	8·831	—	9·901	57·3	41·7	49·5	+1·5	74	26th	33	7th	49·3	45·5	51·6	55·5	48·9	3·8	5·1	2·8	·288	·307	·279	76	69	81
	p Belvoir Castle ...	9, −, 9	276	9·627	—	9·922	61·7	44·1	52·9	+1·9	79	26th	31	17, 20	49·7*	47·9	53·7	—	50·9	4·2	—	2·7	·303	—	·305	73	—	82
	a Coventry	9, −, −	309	9·579	—	9·905	62·8	44·7	53·8	+1·4	78	26, 30	35	7th	53·0	49·2	55·0	—	—	4·4	—	—	·316	—	—	73	—	—
	a Thrapston	9, 3, −	251	—	—	—	63·0	43·9	53·5	—	80	26th	33	7th	—	—	55·2	60·8	—	3·8	6·3	—	·333	·349	—	76	66	—
	a Nottingham ... §	7, 1, 9	85	9·810	−·099	9·901	62·3	44·0	53·2	+1·7	80	26th	33	17th	53·7	49·0	49·2	59·8	51·6	1·7	5·8	2·4	·308	·346	·320	89	67	83
	p Birmingham ¶§	9, −, 9	542	9·330	—	9·910	60·1	44·6	52·4	+1·7	78	26th	35	7th	48·5	46·6	51·7	—	52·1	3·7	—	4·0	·296	—	·295	77	—	75
	a Oxford ... ¶§	8, −, 8	212	—	—	—	62·6	45·9	54·3	+2·1	80	26th	36	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·688	−·075				53·6											3·8						76		
West	*a* Bath ... ¶§	7, −, 6	84	9·862	−·087	9·920	62·8	44·6	53·7	0·0	80	26th	33	7th	54·1	51·0	51·1	—	58·4	—	—	—	—	—	—	—	—	—
	p Shrewsbury ¶	9, −, 9	212	9·680	—	9·902	61·4	43·0	52·2	+0·4	77	26, 28	32	7, 16	—	—	54·2	—	50·0	4·1	—	2·5	·317	—	·302	75	—	83
	p Wistanstow ...	9, −, 9	484	9·370	—	9·887	60·8	42·9	51·9	—	77	26th	31	7th	—	—	53·8	—	48·7	3·3	—	2·1	·325	—	·293	78	—	85
	p Bromyard ...	9, −, 9	400	9·469	—	9·895	60·8	43·4	52·1	—	78	26th	32	7th	53·0	48·4	54·4	—	50·1	3·8	—	2·5	·329	—	·306	77	—	83
	p Cheltenham ...	9, −, 9	206	9·702	—	9·918	62·3	45·4	53·9	+2·3	80	26th	36	7th	—	—	55·2	—	50·9	4·1	—	3·0	·325	—	·298	75	—	80
5. ENGLAND, S.E.																												
	p Reading	9, −, 9	264	9·638	—	9·917	62·7	44·2	53·5	—	79	26th	33	7th	—	—	54·7	—	52·1	2·2	—	1·5	·366	—	·350	86	—	89
	p Salisbury(Wilton) ¶	9, −, 9	186	—	—	—	62·8	43·9	53·4	+0·8	79	26, 27	32	7th	55·7	—	54·9	—	50·6	3·3	—	1·7	·342	—	·326	79	—	88
	a Grayshott	9, 2, −	659	9·216	—	9·923	61·9	44·3	53·1	—	78	26th	33	7th	53·6	—	54·3	59·5	—	4·0	6·8	—	·315	·318	—	75	63	—
	a Midhurst	9, 2, −	493	9·387	—	9·916	61·4	45·6	53·5	—	81	25th	36	7th	—	—	54·6	58·8	—	4·3	6·2	—	·322	·333	—	74	67	—
	a Brighton	9, −, −	48	9·880	—	9·923	60·1	48·4	54·3	+1·3	71	13, 26	37	7th	—	52·4	55·3	—	—	3·7	—	—	·337	—	—	77	—	—
	a Portsmouth ...	9, −, −	18	9·922	—	9·935	62·5	48·0	55·3	+2·3	76	27th	35	7th	56·1	53·1	56·7	—	—	4·1	—	—	·346	—	—	75	—	—
	p Eastbourne §	9, −, 9	36	9·900	—	9·932	59·9	47·8	53·9	+1·3	72	26th	37	7th	54·9	52·1	55·6	—	52·9	3·3	—	2·0	·356	—	·350	80	—	86
	a Dover	7, −, 6	234	9·676	−·055	9·931	59·7	47·2	53·5	—	77	29th	36	7th	53·1	49·4	52·6	—	54·3	1·6	—	1·7	·353	—	·374	89	—	88
	a Dungeness... ¶	7, 1, 6	21	9·884	−·071	9·912	59·3	47·4	53·4	+1·7	76	26th	35	7th	—	—	52·5	57·3	54·8	2·2	4·2	3·1	·336	·351	·345	85	75	80
	p Hastings ... ¶	9, −, 9	174	9·754	—	9·934	60·1	47·7	53·9	+2·0	76	26th	38	7th	56·4	51·8	55·4	—	51·8	4·1	—	2·4	·329	—	·323	75	—	84
	p Southampton ¶§	9, −, 9	84	9·848	—	9·931	62·6	47·2	54·9	+1·2	78	27th	36	7th	—	—	55·7	—	53·3	3·9	—	2·7	·345	—	·339	77	—	83
	a Ventnor ... ¶§	9, 3, −	80	9·819	—	9·898	60·2	47·3	53·8	+0·7	72	27th	38	4th	—	—	54·9	57·9	—	3·1	4·5	—	·347	·353	—	80	73	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

* At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of MAY, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
5·48	—	34	—	7·2	7·4	7·7	3·25	—	0·75	6th	21	17	0	—	0	0	0	12	3	—	0	53	3	4	2	22	7	11	19	14	11	Castlebay.
4·46	−1·31	27	− 8	8·1	—	8·2	1·50	−0·42	0·29	9th	13	11	0	0	1	0	1	18	9	—	1	55	3	2	4	13	26	18	8	14	5	Deerness.
—	—	—	—	6·5	6·3	7·1	2·75	—	0·58	28th	16	13	0	—	0	0	1	2	7	—	10	31	2	6	8	21	18	12	14	8	4	Lerwick.
4·51	−1·72	27	−11	7·2	7·5	8·1	3·32	+0·87	0·68	17th	22	19	0	—	0	0	1	14	0	—	0	52	2	2	8	11	14	18	21	11	6	Stornoway.
—	—	—	—	7·9	7·9	7·0	1·70	−0·17	0·27	23rd	18	11	0	—	0	0	0	9	5	—	6	41	4	2	7	6	17	24	16	9	8	Wick.
4·49	−1·03	27	− 7	7·4	—	6·8	1·56	−0·52	0·44	17th	19	8	0	0	1	2	16	0	—	—	0	29	36	0	1	14	12	3	17	7	3	Strathpeffer.
—	—	—	—	8·3	—	7·2	5·37	+0·87	1·08	17th	23	19	1	0	3	1	4	22	0	—	2	54	1	15	6	29	0	3	0	39	0	Glencarron.
3·68	−0·71	23	− 4	7·5	—	6·8	2·57	+0·27	0·52	3rd	21	14	0	0	0	1	1	17	0	—	2	42	1	5	24	13	0	5	38	7	0	F. Augustus.
—	—	—	—	8·3	—	7·0	5·37	+1·61	1·08	20th	23	21	1	0	1	0	1	19	1	—	1	14	27	0	11	0	7	1	35	9	3	Ft. William.
—	—	—	—	8·0	—	7·9	2·06	—	0·72	8th	21	14	1	0	0	0	3	20	0	—	1	38	18	5	4	16	3	6	9	24	8	Kingussie.
—	—	—	—	7·3	—	8·2	2·07	+0·01	0·47	9th	18	14	0	0	0	0	2	15	0	—	3	11	24	0	0	41	3	0	0	24	1	Dunrobin.
4·93	—	30	—	7·0	6·6	7·1	1·17	−0·50	0·23	3, 4	17	7	0	—	1	1	0	7	0	—	5	20	19	1	6	18	8	6	13	15	7	Nairn.
5·50	—	34	—	7·0	—	6·8	2·71	+0·60	1·13	9th	16	11	0	0	0	2	1	11	2	—	1	29	0	0	8	3	25	17	27	3	10	Gordon C.
4·98	−1·12	30	− 7	7·5	5·7	5·8	3·10	+0·96	1·10	9th	15	10	0	0	0	1	2	12	7	—	0	20	9	3	2	12	28	17	10	7	5	Aberdeen.
—	—	—	—	6·4	—	—	3·58	—	1·00	8th	14	9	0	0	0	2	9	17	1	8	5	18	0	0	6	12	0	0	33	27	15	Balmoral.
—	—	—	—	5·9	—	—	4·11	+1·81	1·41	8th	15	14	3	0	0	2	1	9	2	12	2	18	0	0	6	6	30	3	42	0	6	Braemar.
—	—	—	—	8·0	—	8·2	3·55	+1·65	0·95	9th	15	12	0	0	0	1	1	17	2	—	3	15	0	0	5	9	36	6	27	4	6	Dundee.
—	—	—	—	8·2	—	7·5	2·66	+0·31	0·47	6th	17	13	0	0	0	4	0	17	0	—	2	36	0	1	0	42	6	0	8	33	3	Crieff.
—	—	—	—	7·3	—	6·9	1·31	−0·36	0·21	3, 9	14	10	0	—	0	0	1	12	0	—	0	15	7	1	11	19	11	5	16	20	3	Leith.
3·74	—	23	—	8·3	7·7	5·6	2·38	—	0·45	3rd	20	14	1	0	0	4	0	15	1	9	0	5	13	1	11	12	4	9	30	10	3	West Linton.
4·21	−1·56	26	−10	8·0	—	6·6	2·48	+0·11	0·56	8th	14	9	0	0	1	2	2	17	0	3	0	23	0	7	8	30	6	10	6	18	8	Marchmont.
4·42	—	28	—	7·2	—	6·8	2·82	+0·95	0·64	6th	16	12	0	0	3	4	0	12	4	—	0	21	17	9	6	9	15	7	11	15	4	Whitby.
4·72	—	30	—	7·2	—	6·4	3·09	+0·81	1·11	6th	19	10	1	0	0	3	0	13	6	2	0	11	1	6	3	34	2	0	12	33	2	Cockle Park.
—	—	—	—	7·9	—	7·8	3·18	+1·47	1·10	6th	16	11	0	—	0	1	0	18	5	—	0	14	3	8	7	18	11	11	16	16	3	Shields.
3·97	−1·51	25	−10	8·8	—	7·7	2·50	+0·50	0·70	8th	16	14	0	0	0	4	1	21	3	1	0	27	27	5	6	9	4	12	15	15	0	Durham.
—	—	—	—	8·0	—	7·3	1·92	+0·05	0·41	8th	16	10	0	0	0	5	2	18	5	1	0	20	12	7	12	0	15	15	20	6	6	Rounton.
4·37	—	28	—	7·7	—	7·8	2·74	+0·78	0·82	30th	14	10	0	0	0	4	0	12	3	—	0	57	0	7	15	3	23	1	24	2	18	Scarborough
4·98	−0·76	32	− 4	6·1	—	5·9	1·97	+0·06	0·56	8th	15	10	0	0	2	2	2	9	0	—	0	0	0	8	11	13	8	22	6	18	7	York.
5·32	—	34	—	6·6	7·2	7·0	1·40	−0·13	0·38	9th	11	9	0	—	0	2	0	8	3	—	0	53	1	7	13	15	15	13	7	16	6	Spurn Head.
—	—	—	—	5·6	—	4·0	1·87	+0·09	0·50	6th	10	8	—	—	—	—	6	7	—	—	0	11	2	3	10	11	18	6	16	20	7	Lincoln.
5·78	—	37	—	6·5	—	—	1·63	—	0·61	8th	12	8	0	0	0	0	7	15	0	—	0	63	0	12	9	15	9	24	9	12	3	Skegness.
3·57	—	23	—	6·7	—	6·3	2·30	+0·41	0·58	8th	15	10	0	0	1	2	5	13	0	1	1	2	10	3	20	3	22	3	24	3	5	Hull.
5·76	—	37	—	5·9	6·3	4·9	1·12	−0·52	0·24	9th	14	9	0	0	0	1	4	9	0	0	0	35	3	4	15	6	15	27	11	6	6	Lowestoft.
5·38	—	34	—	7·9	—	7·3	1·66	—	0·62	27th	15	11	0	0	0	2	0	16	0	—	0	27	1	0	6	3	21	24	14	21	3	Cromer.
6·27	−0·31	40	− 2	6·6	6·9	5·5	1·55	−0·37	0·52	8th	9	5	0	0	0	6	2	7	0	0	0	30	1	6	11	4	11	16	23	13	8	L. Mas'gh'm.
5·72	—	37	—	6·8	5·3	5·4	1·38	−0·40	0·35	6th	14	8	0	—	0	1	1	3	2	—	0	12	7	6	12	9	18	15	9	12	5	Yarmouth.
6·24	−0·79	40	− 5	6·4	—	5·7	1·49	−0·26	0·47	29th	11	8	0	0	0	3	4	11	0	—	0	0	1	6	13	12	14	14	13	15	5	Geldeston.
6·64	+0·12	43	+ 1	6·6	—	4·7	1·73	−0·11	0·65	3rd	11	8	0	0	1	5	2	9	1	4	0	6	17	13	2	0	21	7	21	3	9	Cambridge.
7·41	—	48	—	6·6	5·8	6·1	2·21	—	1·06	27th	10	8	0	—	0	2	1	7	0	0	0	16	2	6	8	10	15	20	13	17	2	Clacton.
6·46	—	42	—	8·1	—	5·5	1·90	—	0·88	3rd	13	7	0	0	1	2	0	12	1	—	0	21	9	3	12	1	7	9	29	14	9	Woburn.
6·44	—	41	—	6·8	6·9	4·5	1·52	−0·43	0·52	3rd	8	6	0	0	0	2	2	10	0	5	0	6	8	0	10	6	9	9	23	22	6	Bennington.
6·68	—	43	—	6·4	—	4·7	1·85	−0·16	0·68	3rd	12	8	0	0	2	3	5	8	0	8	0	0	27	4	8	6	9	16	9	11	3	Berkh'mst'd.
4·33	—	27	—	6·8	—	6·7	1·68	—	0·40	8th	15	9	0	0	0	0	1	12	0	8	0	0	3	8	12	19	9	17	12	10	3	Garforth.
4·31	—	27	—	6·6	7·1	6·6	2·56	—	0·68	6th	16	9	0	0	0	1	3	13	0	2	0	9	10	3	15	12	6	12	9	19	7	Huddersf'ld.
5·05	—	32	—	7·2	—	6·6	2·17	−0·14	0·48	8th	14	9	0	0	0	2	0	13	4	1	0	11	10	11	6	4	14	12	15	15	6	Sheffield.
4·86	−0·62	31	− 4	7·7	7·1	6·5	1·73	−0·31	0·62	6th	9	7	0	0	0	4	2	14	0	5	0	8	8	4	17	3	15	14	16	8	8	Worksop.
4·95	—	31	—	6·9	5·9	4·2	3·09	−0·18	0·77	3rd	20	13	0	0	0	1	7	10	0	1	0	0	5	0	12	5	15	3	32	10	11	Buxton.
6·46	—	41	—	6·2	—	4·8	1·72	−0·26	0·50	6th	13	9	0	0	1	6	5	9	4	3	0	14	30	9	6	0	4	12	18	11	3	Belvoir C.
5·07	—	33	—	6·7	—	—	2·33	+0·35	0·85	3rd	18	12	0	0	1	4	4	14	0	5	0	21	0	12	15	3	6	27	12	15	3	Coventry.
6·42	—	41	—	7·1	6·7	—	1·40	—	0·56	3rd	10	7	0	0	0	4	1	13	1	0	—	—	0	3	9	9	9	18	18	12	15	Thrapston.
5·43	—	35	—	7·0	6·9	6·0	2·05	+0·13	0·65	3rd	13	8	0	—	0	2	1	9	1	2	1	31	0	2	13	13	10	14	20	19	2	Nottingham.
4·91	—	31	—	6·7	—	5·2	2·26	+0·03	0·86	3rd	16	11	0	0	0	3	5	8	0	9	0	6	18	6	8	3	13	18	13	8	6	Birmingh'm.
5·93	−0·36	38	− 3	—	—	—	2·68	+0·86	0·42	1st	17	12	0	0	4	5	—	—	1	1	0	32	1	6	12	2	12	22	18	14	6	Oxford.
				6·4			2·70	+0·71																							
6·74	—	44	—	7·4	—	5·8	2·56	+0·54	0·71	4th	13	9	—	—	—	—	3	15	—	—	—	23	12	3	7	6	9	14	12	24	6	Bath.
—	—	—	—	6·5	—	5·4	1·92	—	0·54	3rd	18	13	0	0	1	3	4	8	0	1	0	11	9	0	8	0	12	9	30	7	18	Shrewsbury.
—	—	—	—	7·3	—	5·2	2·88	—	0·53	3rd	16	13	0	0	3	2	3	14	0	2	0	6	36	6	3	5	4	4	20	9	6	Wistanstow.
—	—	—	—	6·8	—	4·6	2·86	—	0·65	3rd	15	12	0	0	1	2	6	12	0	6	0	15	17	7	4	7	3	23	17	11	4	Bromyard.
5·73	—	37	—	7·0	—	4·7	1·86	−0·09	0·47	3rd	13	8	0	0	3	1	5	10	0	4	1	24	3	5	7	3	6	17	40	2	10	Cheltenham.
7·08	—	46	—	7·1	—	7·1	2·11	+0·50	0·54	29th	11	8	0	0	0	1	3	18	0	—	0	12	29	6	4	0	3	13	15	17	6	Reading.
—	—	—	—	6·1	—	4·4	2·78	+0·81	0·61	4th	16	8	0	0	0	0	5	7	0	1	0	30	0	8	9	1	3	12	23	27	10	Salisbury.
6·52	—	42	—	6·6	6·3	—	3·44	—	0·77	12th	14	8	0	0	0	2	2	10	0	4	1	21	1	8	7	3	21	8	16	11	18	Grayshott.
6·80	—	44	—	6·6	6·2	—	2·68	—	0·64	3rd	13	8	0	0	1	1	3	11	0	—	0	57	0	9	9	3	7	20	21	10	14	Midhurst.
7·49	+0·36	49	+ 3	6·3	—	—	1·61	+0·02	0·70	12th	9	7	0	0	1	3	3	8	1	—	0	26	3	0	12	15	9	12	12	24	6	Brighton.
7·77	—	51	—	4·6	—	—	2·45	+0·89	0·72	29th	9	9	0	0	0	1	10	7	0	1	0	69	0	6	15	0	6	18	9	12	27	Portsmouth.
7·93	+0·58	52	+ 4	5·3	—	4·2	0·99	−0·61	0·31	12th	12	6	0	0	0	1	10	9	0	—	0	0	3	3	15	1	8	4	30	11	18	Eastbourne.
7·36	—	48	—	5·4	—	4·1	0·99	—	0·27	9th	12	7	0	—	0	3	8	5	1	?	0	26	6	9	5	5	9	15	30	5	9	Dover.
—	—	—	—	6·7	6·0	6·1	0·69	−0·54	0·23	9th	7	5	0	—	0	3	0	5	4	—	1	34	2	1	15	5	6	19	34	8	3	Dungeness.
7·77	+0·19	51	+ 2	5·4	—	4·1	0·95	−0·65	0·23	8th	8	6	0	0	0	3	5	8	0	2	1	23	5	9	4	8	10	12	32	10	3	Hastings.
7·02	−0·04	46	0	5·9	—	2·5	3·24	+1·33	0·97	29th	12	10	0	0	1	3	8	5	1	1	0	9	0	1	12	0	18	3	30	0	29	S'mpton.
7·46	+0·10	49	+ 1	6·4	5·5	—	1·65	+0·07	0·38	4th	11	8	0	0	0	1	2	11	0	—	0	29	0	10	4	6	9	20	32	6	6	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min B.	Mean of A and B	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·855	—	9·908	64·2	47·4	55·8	+2·0	80	26, 27	38	7th	—	51·1	56·8	—	54·5	5·2	—	3·7	·337	—	·333	71	—	77
p Hampstead ...	9, –, 9	453	9·459	—	9·941	62·4	45·8	54·1	—	78	26, 27	35	7th	—	—	54·8	—	53·0	4·5	—	3·9	·311	—	·301	73	—	75
a Camden Square ...	9, –, 9	123	9·798	—	9·924	67·8	46·9	57·4	+3·1	84	26, 27	35	7th	54·7	49·1	57·5	—	54·7	5·3	—	3·8	·327	—	·326	70	—	76
a Westminster ...	9, 3, –	—	—	—	—	64·7	48·0	56·4	+3·0	80	26, 27	37	7th	—	—	57·3	62·4	—	3·4	5·8	—	·371	·384	—	79	68	—
a South Kensington*	9, 3, 6	70	9·840	—	9·918	64·5	49·1	56·8	—	81	26th	39	7th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·747	—	9·921	66·6	45·3	56·0	+3·0	84	27th	36	7th	—	51·4	57·2	62·6	52·7	5·1	8·1	3·0	·328	·329	·320	70	58	81
			9·744	–·067	9·918			54·8	+1·8																		
Kew ... ¶§	9, 3, 9	34	9·888	–·081	9·924	63·8	46·7	55·3	+2·7	80	26th	38	7th	54·5	50·5	55·9	61·2	54·1	4·3	6·9	3·5	·337	·311	·333	74	60	78
			9·885	–·083	9·922			55·3	+3·0																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	—	—	—	54·3	39·6	47·0	—	71	30th	29	16th	—	—	47·9	51·8	45·4	2·5	3·8	1·6	·276	·297	·273	83	76	88
p Poltalloch ... § ¶	9, –, 9	135	9·702	—	9·845	56·5	43·9	50·2	+0·1	65	30th	38	2, 19, 20	—	—	50·0	—	47·7	2·3	—	1·5	·302	—	·294	84	—	89
a Glasgow	7, 1, 9	355	9·478	—	9·863	55·6	42·0	48·8	–1·2	71	30th	31	2nd	—	—	45·7	52·8	47·2	1·1	—	—	·282	—	—	93	—	—
p Rothesay ... § ¶	9, –, 9	76	9·779	—	9·857	57·9	43·7	50·8	+0·8	68	30th	38	19, 20	—	48·0	49·6	—	47·3	3·1	—	2·3	·280	—	·271	81	—	84
a Colmonell ... § ¶	9, 3, –	150	9·705	—	9·870	58·1	42·9	50·5	+0·7	69	30th	35	16th	—	—	51·9	55·1	—	2·4	3·9	—	·324	·329	—	85	75	—
p Dumfries ... § ¶	9, –, 9	155	9·733	—	9·898	57·5	43·0	50·3	–0·7	73	30th	36	16, 19	51·7	49·0	51·0	—	48·1	3·4	—	1·9	·290	—	·289	78	—	86
p Cally ... § ¶	9, –, 9	120	—	—	—	57·4	41·9	49·7	–0·2	71	26th	33	2, 16	—	—	52·2	—	49·0	2·8	—	2·6	·318	—	·285	81	—	82
p Douglas ... ¶§	9, –, 9	284	9·573	—	9·876	54·2	44·5	49·4	–0·5	63	24th	37	2, 16	—	—	49·8	—	47·6	1·9	—	1·3	·314	—	·302	87	—	91
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·857	—	9·902	57·6	44·8	51·2	+0·7	74	30th	34	7, 16	53·3	50·4	53·0	54·9	50·0	3·3	4·2	2·1	·320	·326	·318	79	75	86
p Manchester (City)	9, –, 9	195	9·697	—	9·901	60·7	46·9	53·8	—	76	30th	38	7, 16	51·8	49·0	53·5	—	52·5	3·9	—	3·5	·315	—	·311	77	—	78
p ,, (WhitworthPk.)	9, –, 9	127	9·750	—	9·881	60·5	46·1	53·3	—	76	26, 30	35	7th	—	—	54·0	58·8	51·6	4·5	—	2·8	·299	—	·311	74	—	82
p Darwen	9, –, 9	730	9·118	—	9·901	57·2	42·7	50·0	—	73	30th	33	7th	51·6	47·0	51·0	—	48·5	3·1	—	2·3	·302	—	·290	81	—	84
p Egremont	9, –, 9	354	9·504	—	9·882	56·3	43·2	49·8	—	73	30th	35	7, 16	51·3	47·4	50·4	—	48·1	2·2	—	1·4	·313	—	·304	85	—	90
p Aspatria ... ¶§	9, –, 9	254	9·602	—	9·870	57·7	42·5	50·1	–0·3	76	30th	33	16th	50·8	47·4	51·5	—	47·6	2·7	—	1·7	·311	—	·293	82	—	88
p Newton Rigg ¶§	9, –, 9	559	9·270	—	9·870	58·9	41·6	50·3	+1·2	73	30th	30	16th	50·6	46·7	50·0	—	48·6	2·2	—	2·3	·304	—	·287	85	—	84
p Stonyhurst ¶§	9, –, 9	363	—	—	—	58·1	44·5	51·3	+1·0	74	30th	36	7, 16	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·811	—	9·884	57·2	43·6	50·4	–0·3	74	30th	33	16th	50·2	47·5	52·9	—	48·7	2·4	—	1·0	·342	—	·329	84	—	92
p Liverpool (Bid.) ¶	9, –, 9	202	9·678	—	9·890	57·4	45·3	51·4	–0·1	74	30th	36	7th	—	—	52·4	—	49·7	3·4	—	2·3	·306	—	·300	78	—	85
p Llandudno... ¶§	9, –, 9	32	9·826	—	9·854	57·7	45·3	51·5	–0·1	74	30th	38	7, 16	—	—	52·6	—	51·2	3·2	—	3·0	·313	—	·302	78	—	80
a Holyhead ... ¶	7, 1, 9	48	9·851	–·124	9·869	54·6	45·8	50·2	–0·8	62	13th	40	7th	—	—	48·6	52·1	49·3	1·0	1·9	1·4	·318	·339	·316	93	86	90
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	9·865	—	9·891	56·1	45·4	50·8	—	68	30th	36	17th	52·8	49·8	52·7	—	50·0	1·7	—	0·9	·351	—	·337	88	—	94
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·270	—	9·896	59·6	42·8	51·2	+0·7	74	26th	31	7th	50·7	47·6	51·8	—	—	2·4	—	—	·323	—	—	84	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·717	–·111	9·881	54·9	46·5	50·7	0·0	66	27th	42	4th	—	—	49·2	52·8	49·4	1·1	2·0	1·3	·322	·346	·320	93	87	91
a Portland Bill ¶	7, 1, 9	23	9·877	–·097	9·912	56·5	48·0	52·3	–1·1	65	14, 27	43	4, 16	—	—	51·0	54·4	51·4	1·6	2·1	1·6	·333	·364	·338	89	86	90
p Plymouth ... ¶§	9, 3, 9	116	9·780	—	9·901	58·7	48·0	53·4	+0·2	72	26th	37	2nd	55·2	—	54·3	56·8	52·1	2·8	3·9	1·8	·344	·353	·342	81	76	87
Falmouth ... ¶§	9, 3, 9	183	9·725	–·082	9·918	58·1	48·1	53·1	+1·0	73	27th	42	4th	—	—	53·9	56·2	51·3	3·2	4·1	1·8	·335	·343	·335	80	75	88
			9·720	–·081	9·919			52·7	+0·9																		
p Cardiff	9, –, 9	216	9·675	—	9·903	60·6	45·1	52·9	+0·1	78	26th	38	2nd	53·7	49·6	53·0	—	51·1	3·2	—	2·7	·317	—	·308	79	—	81
a Newquay ... §	7, –, 6	161	9·753	–·111	9·895	56·2	47·2	51·7	0·0	67	28th	41	1st	54·1	—	51·2	—	52·8	1·9	—	2·8	·328	—	·325	87	—	81
p Woolacombe ...	9, –, 9	120	9·785	—	9·908	58·4	47·6	53·0	–1·0	73	26th	43	2nd	—	—	53·3	—	51·1	2·7	—	2·1	·332	—	·323	82	—	85
a Princetown ...	9, 3, –	1360	8·416	—	—	55·5	43·9	49·7	—	73	26th	36	4th	—	—	50·2	53·1	—	2·7	4·1	—	·296	·298	—	82	73	—
p Sheepstor	9, 3, 9	730	9·127	—	9·908	58·4	42·7	50·6	—	76	26th	31	2nd	—	—	52·7	55·8	48·1	2·4	3·8	1·0	·342	·346	·314	84	77	92
p Teignmouth ...	9, 3, 9	20	9·897	—	9·914	60·5	47·5	54·0	—	77	27th	38	2nd	—	—	53·9	57·7	53·4	3·4	5·0	3·0	·332	·346	·332	79	72	80
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·556	–·150	9·810	53·6	44·8	49·2	–0·5	63	24th	38	7th	—	—	47·7	51·4	50·4	1·4	2·2	2·4	·297	·323	·305	90	85	84
West. *a* Blacksod Point ¶	7, 1, 9	41	9·768	–·174	9·811	53·5	45·0	49·3	–1·7	59	27th	40	4, 5, 6	—	—	48·5	51·7	49·2	1·6	2·2	1·5	·302	·327	·313	88	86	90
West. *p* Markree Castle ¶§	9, –, 9	127	9·702	—	9·833	56·7	43·1	49·9	–0·1	68	24th	34	5th	51·7	48·0	50·6	—	47·7	2·9	—	1·6	·296	—	·292	80	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	9·812	–·136	9·855	54·9	44·4	49·7	–0·5	68	24th	35	7th	—	—	47·3	52·5	47·8	1·5	2·9	1·6	·289	·319	·293	90	81	88
East. *p* Armagh ... ¶§	9, –, 9	202	9·623	—	9·835	57·7	43·1	50·4	0·0	69	24th	34	5th	51·7	48·5	52·1	—	47·9	4·0	—	2·5	·292	—	·281	75	—	83
East. *a* Belfast	9, –, 9	55	—	—	—	58·0	43·2	50·6	—	69	24th	33	7th	—	—	52·9	—	48·1	3·8	—	2·4	·306	—	·282	76	—	83
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	57·1	42·3	49·7	—	66	24th	33	5th	49·8	47·6	51·4	—	48·2	2·5	—	1·2	·317	—	·307	83	—	92
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	58·2	45·4	51·8	—	68	24th	36	7th	52·3	49·7	53·2	—	50·9	4·0	—	2·7	·306	—	·309	74	—	82
East. *p* ,, (Phœnix Pk.) §	9, –, 9	159	9·695	—	9·864	58·0	42·5	50·3	+0·8	66	24th	31	16th	—	—	52·4	—	48·2	3·6	—	1·8	·306	—	·299	77	—	87
East. *p* ,, (City)... ¶	9, –, 9	53	9·798	—	9·851	58·1	46·5	52·3	+0·1	67	24, 25	38	4, 7	—	—	52·3	—	50·7	3·9	—	2·7	·300	—	·306	76	—	82
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·640	–·168	9·832	58·2	43·5	50·9	–0·4	67	27th	34	5th	51·6	49·2	47·8	55·1	54·6	1·4	4·2	3·9	·298	·322	·322	90	74	76
West. Valencia ... ¶§	9, 3, 9	45	—	—	—	55·4	46·5	51·0	–1·2	64	26th	41	6th	—	—	51·7	53·8	49·9	2·4	3·1	1·8	·325	·336	·319	84	81	88
								51·0	–1·2																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·816	–·133	9·867	55·4	46·4	50·9	–1·5	63	13th	40	7th	—	—	49·1	53·5	53·0	1·3	2·2	2·3	·316	·348	·340	91	85	84
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·771	—	9·822	57·9	44·1	51·0	—	69	27th	36	7th	53·7	—	52·2	55·9	49·3	2·8	3·6	1·1	·318	·349	·323	81	78	92
11. ENGLISH CHANNEL.																											
a Scilly .. §§	7, 1, 9	152	9·727	–·106	9·891	55·5	46·8	51·2	–1·3	64	27th	42	4th	—	—	50·0	54·1	50·0	1·4	2·7	1·1	·324	·343	·332	90	81	92
a Jersey ... ¶§	7, 1, 9	36	9·912	–·061	9·950	60·1	49·0	54·6	+0·9	80	26th	43	4th	—	—	52·6	56·4	53·6	1·9	3·5	2·4	·345	·358	·344	87	78	83
p Guernsey (Brooklyn).	9, –, 9	311	9·608	—	9·940	58·8	47·9	53·4	+0·6	74	26th	42	4th	55·0	52·1	52·6	—	50·7	2·2	—	1·7	·337	—	·330	85	—	88
a Gibraltar ...	7, 1, 9	53	9·965	—	0·022	73·7	57·2	65·5	—	82	29th	52	15th	—	—	59·7	70·4	61·9	3·3	8·7	3·9	·412	·438	·428	80	59	77

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet given in 1912 is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of MAY, 1913.

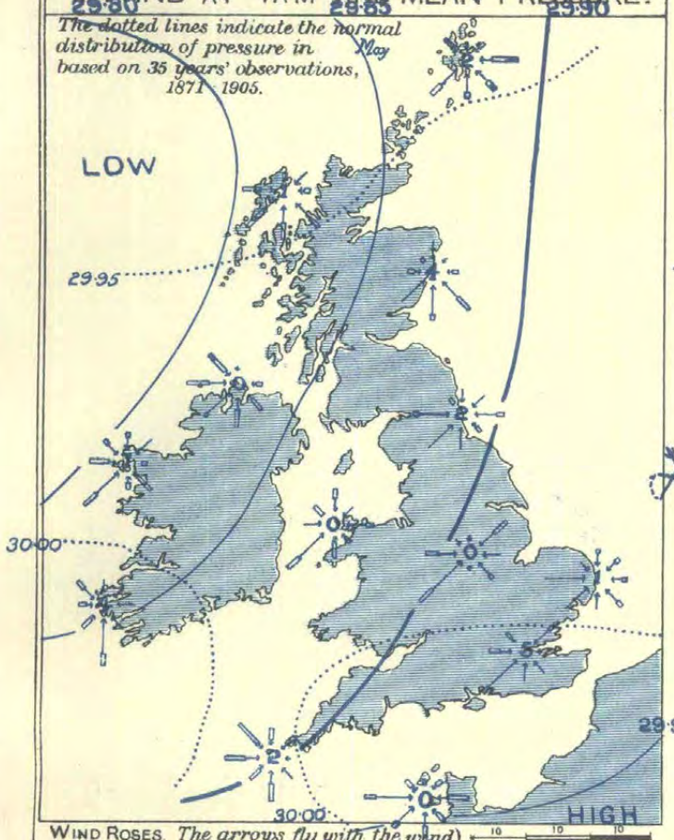
BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
6·35	—	41	—	7·4	—	4·7	1·49	—	0·45	29th	8	6	0	0	0	3	1	7	0	0	0	0	1	6	12	1	6	18	24	20	5	Tottenham.
6·77	—	44	—	7·2	—	4·7	1·78	—	0·58	29th	12	11	0	0	1	2	4	8	0	4	0	6	21	1	14	2	1	18	27	8	1	Hampstead.
6·10	—	39	—	6·5	—	—	1·72	−0·03	0·60	29th	11	8	0	0	0	1	6	11	0	0	—	—	12	15	0	6	0	21	24	9	6	Camden Sq.
6·49	+1·10	42	+ 7	—	—	—	1·31	−0·38	0·50	29th	11	6	0	—	0	1	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
6·30	—	41	—	6·9	—	5·5	1·42	—	0·62	29th	11	7	0	—	1	3	4	8	0	1	0	12	2	3	13	3	5	15	33	12	7	S.Kensingtn
6·52	+0·12	42	+ 1	7·1	7·1	4·2	1·16	−0·76	0·37	29th	13	5	0	0	0	2	2	11	0	5	0	5	8	5	12	3	7	10	27	15	6	Greenwich.
6·79	+0·31	44	+ 2	7·2	6·2	5·5	1·77	+0·04	0·67	29th	11	8	0	0	1	3	2	13	0	5	0	19	9	11	5	4	6	23	19	12	4	Kew.
4·07	—	25	—	8·6	8·1	7·2	4·14	—	0·62	14th	22	19	0	0	0	3	0	17	0	—	0	44	16	3	17	5	9	6	24	10	3	Eskdalemuir
—	—	—	—	8·1	—	6·6	4·88	+2·29	0·64	6th	24	22	0	0	1	1	1	16	0	—	1	29	20	3	1	1	21	12	14	15	6	Poltalloch.
?	?	?	?	8·8	7·8	7·0	3·38	+0·96	0·76	4th	22	16	0	0	1	4	0	15	0	?	0	17	4	0	5	34	5	6	17	18	4	Glasgow.
—	—	—	—	7·9	—	6·8	4·02	+1·29	0·63	5th	23	18	0	0	0	2	1	18	10	—	2	17	17	7	1	24	3	11	6	15	9	Rothesay.
—	—	—	—	6·8	—	—	3·98	+1·46	0·69	21st	19	16	0	0	0	0	2	12	0	1	0	21	0	0	3	3	24	6	21	24	12	Colmonell.
5·16	—	32	—	7·2	—	6·0	4·07	+1·66	0·94	13th	23	16	0	0	0	2	0	12	0	1	0	14	0	0	6	11	18	1	33	15	9	Dumfries.
—	—	—	—	—	—	—	5·01	+2·07	1·14	5th	20	16	0	0	0	2	—	—	0	—	1	17	0	5	6	6	21	9	18	4	24	Cally.
5·53	−1·76	35	−11	8·0	—	7·0	2·90	+0·58	0·43	13th	22	16	0	0	0	2	1	17	8	0	0	29	1	6	6	9	15	11	18	16	11	Douglas.
4·91	−1·96	31	−13	7·8	6·4	5·8	2·24	+0·14	0·66	3rd	19	11	0	0	2	3	1	11	0	4	0	53	1	4	5	7	17	10	15	17	17	Southport.
4·04	—	26	—	5·2	—	4·5	2·80	+0·48	0·64	3rd	20	14	0	0	1	1	3	0	0	0	0	11	1	7	6	14	9	7	14	21	14	Manchester.
4·04	—	26	—	6·9	6·2	5·0	2·61	—	0·55	3rd	18	15	0	0	0	1	7	11	0	—	0	28	15	2	8	11	10	20	9	14	4	Whitwth Pk.
4·10	—	26	—	8·5	—	7·5	4·59	—	1·12	23rd	22	16	0	0	3	3	0	17	0	2	0	29	0	2	7	8	12	19	5	34	6	Darwen
5·34	—	34	—	7·3	—	5·9	5·15	—	1·06	8th	20	15	0	0	0	3	4	15	3	3	1	12	9	9	1	2	22	24	12	2	12	Egremont.
5·51	—	35	—	7·0	—	5·6	2·58	+0·27	0·40	13th	18	15	0	0	0	2	2	13	0	3	0	18	8	9	7	15	6	6	23	10	9	Aspatria.
5·31	−1·08	33	− 7	7·7	—	5·3	1·43	−0·76	0·28	6th	21	11	0	0	2	3	2	11	0	3	2	26	15	3	3	6	15	21	17	13	0	N'wt'n Rigg.
4·31	−1·98	27	−13	—	—	—	4·05	+1·37	1·05	23rd	20	—	0	—	0	3	—	—	0	5	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
5·11	−1·44	32	− 9	8·3	—	6·8	2·31	+0·28	0·64	3rd	19	13	0	0	2	2	1	16	0	7	1	50	1	4	7	11	12	9	21	17	11	Blackpool.
4·95	—	31	—	6·9	—	6·1	2·40	+0·54	0·62	3rd	21	14	0	0	1	4	1	11	0	—	0	20	0	3	5	12	15	9	13	27	9	Liverpool.
4·93	−1·72	31	−11	7·1	—	6·1	2·11	+0·27	0·40	3rd	21	15	0	0	0	0	2	11	0	—	0	11	9	9	4	8	3	16	3	39	2	Llandudno.
5·69	—	36	—	7·5	6·6	5·8	2·44	+0·62	0·34	3, 5	20	12	0	—	1	2	1	11	8	—	2	39	0	13	8	7	5	23	24	6	7	Holyhead.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
6·06	—	39	—	7·5	—	5·4	2·38	—	0·50	13th	15	13	0	0	0	0	3	12	1	0	2	27	16	6	12	2	1	30	20	5	1	Dwyran.
5·64	—	36	—	7·5	—	—	3·25	—	0·54	7th	24	17	0	0	1	0	3	18	0	5	0	18	12	0	3	12	6	9	21	12	18	Llangamch.
5·38	−1·81	35	−11	6·5	6·0	6·5	3·43	+1·60	0·71	8th	18	15	0	—	0	1	1	9	6	—	3	49	1	10	7	1	8	18	22	15	11	Pembroke.
—	—	—	—	6·0	5·9	5·1	1·46	—	0·29	12th	12	9	0	—	0	3	1	4	7	—	1	44	2	4	12	7	7	8	26	16	11	Portl'nd Bill
5·97	−1·16	39	− 8	7·5	6·7	7·3	3·13	+1·28	0·73	7th	18	11	0	0	0	0	1	16	4	0	1	12	9	13	8	2	6	16	19	14	6	Plymouth.
6·84	−0·77	45	− 5	6·3	5·9	5·6	3·66	+1·50	0·87	7th	18	15	0	0	1	3	4	11	0	—	0	20	11	15	3	0	3	18	20	9	14	Falmouth.
6·60	—	43	—	—	—	—	2·84	+0·41	0·41	11th	17	15	0	0	0	1	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
6·66	−0·47	43	− 3	6·1	—	6·0	3·06	+1·37	0·78	7th	20	13	0	—	0	2	5	10	6	—	2	35	8	6	9	1	12	14	16	15	12	Newquay.
6·23	−0·67	40	− 5	5·0	—	5·7	2·51	+0·92	0·80	7th	18	14	0	0	1	0	5	4	4	—	0	21	12	5	7	14	12	4	15	15	9	Woolac'mbe.
—	—	—	—	7·5	7·3	—	6·96	—	2·07	7th	24	19	0	0	2	1	3	15	11	—	0	33	0	3	12	0	6	3	39	2	28	Princetown.
—	—	—	—	6·4	6·5	6·1	5·15	—	1·30	7th	24	20	1	0	1	6	4	10	11	—	4	40	7	7	7	7	7	15	18	13	12	Sheepstor.
6·29	—	41	—	6·0	6·2	5·3	3·42	—	0·80	11th	18	12	0	0	1	4	4	6	2	0	2	41	3	9	6	13	6	15	16	15	10	Teignmouth
—	—	—	—	7·1	6·0	6·5	1·99	−0·09	0·43	8th	25	15	0	—	0	1	0	5	0	—	4	43	0	11	1	9	7	17	14	18	16	Malin Head.
—	—	—	—	8·2	7·6	8·0	4·28	+1·59	0·75	30th	24	21	0	—	1	0	0	16	2	—	1	45	1	9	9	3	11	11	22	15	12	Blacksod Pt.
4·34	−1·76	27	−11	8·2	—	6·2	4·25	+1·74	0·64	8th	25	20	0	0	4	1	2	14	1	4	1	2	33	4	3	3	14	9	15	3	9	Markree Cas.
—	—	—	—	6·3	5·9	6·5	2·59	+0·38	0·36	6th	23	17	0	—	0	0	0	6	0	—	0	12	0	13	8	3	15	20	16	10	8	Donaghadee.
4·85	−1·18	31	− 7	8·4	—	6·1	3·79	+1·57	0·63	29th	21	18	0	0	0	0	1	13	0	4	0	5	29	4	2	4	13	13	17	5	6	Armagh.
—	—	—	—	—	—	—	3·72	+1·54	0·52	6th	23	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	6·6	—	5·0	4·26	—	0·70	7th	24	18	c	0	1	2	0	7	0	—	0	29	4	11	5	3	13	9	18	18	12	Newtown-forbes.
5·14	—	33	—	8·1	—	5·8	2·71	—	0·69	5th	13	10	0	0	0	0	1	10	0	1	0	2	9	6	4	20	10	3	3	29	9	Dublin T. C.
4·84	−2·00	31	−13	7·6	—	5·9	3·01	+1·02	0·77	5th	16	11	0	0	0	0	0	10	0	5	0	8	17	2	6	7	12	7	19	16	7	Phœnix Pk.
—	—	—	—	6·7	—	5·1	2·80	+0·83	0·67	5th	17	11	0	0	1	1	2	5	0	0	2	20	1	9	10	11	7	11	15	18	11	Dublin (City).
4·36	−1·67	28	−10	6·7	6·8	7·1	3·47	+1·28	0·88	8th	24	15	0	—	3	1	0	2	0	3	0	20	2	8	5	5	14	10	20	11	18	Birr Castle.
4·73	−2·11	30	−14	7·5	7·8	8·0	6·62	+3·66	1·24	29th	23	19	0	0	4	1	0	15	1	—	0	40	8	10	4	2	10	19	18	9	13	Valencia.
—	—	—	—	6·3	7·4	6·4	4·18	+1·66	0·72	8th	24	15	0	—	1	1	2	12	7	—	1	41	1	15	3	6	8	23	25	5	7	Roche's Pt.
5·06	—	32	—	7·9	7·5	7·1	3·48	—	0·61	2nd	18	16	0	0	1	0	0	14	0	4	1	36	7	6	8	1	11	18	18	12	12	Limerick.
6·02	−1·66	40	−10	7·3	6·5	7·3	2·63	+1·02	0·76	7th	18	10	0	—	1	0	0	6	9	—	2	48	3	8	11	2	7	18	12	15	17	Scilly.
5·93	−2·13	39	−14	6·9	6·2	6·5	1·92	+0·01	0·39	4th	16	13	0	—	0	1	1	12	3	—	1	37	0	3	6	9	12	12	16	29	6	Jersey.
6·41	−2·04	42	−14	6·8	—	5·4	1·83	−0·08	0·30	11th	17	12	0	0	0	1	3	9	11	0	2	32	15	0	7	2	12	6	15	25	11	Guernsey.
—	—	—	—	3·9	3·7	2·5	1·01	—	0·92	15th	3	2	0	0	0	1	12	1	0	0	0	21	3	0	0	27	8	0	3	40	12	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, MAY, 1913.

DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE.								Earth Temperature.		RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days.						BRIGHT SUNSHINE.			
			Means of		Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum.						Total Fall.	Difference from Average.	Most in a day		Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
			A Max.	B Min.			Max.	Day.	Min.	Day.	1 ft.	4 ft.			Amt.	Day.										
		Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
p Baltasound ...	$	31	51·4	43·2	47·3	—	57	31st	39	3, 19, 20	48·3	—	2·65	—	0·71	18th	19	0	1	1	6	—	5·83	—	34	—
a Fortrose		69	54·5	43·2	48·9	—	71	30, 31	36	19th	—	—	0·52	—	0·15	10th	16	0	0	0	0	—	5·40	—	33	—
1. SCOTLAND, E.																										
a Crathes	$ §	140	57·5	41·0	49·3	—	69	25th	32	20th	49·4	46·1	6·03	—	2·76	9th	16	0	0	1	1	7	4·93	—	30	—
p Stonehaven		86	54·6	42·3	48·5	—	67	26th	35	20th	—	—	2·69	—	0·80	9th	15	—	—	—	—	—	4·77	—	29	—
p Balruddery ...	$ §	276	57·0	40·9	49·0	—	68	16th	35	2, 13, 21	—	—	3·82	—	0·97	9th	11	0	0	0	0	—	4·80	—	30	—
a Carnoustie		39	55·3	42·2	48·8	—	67	25th	35	18th	—	—	3·52	—	1·21	8th	17	0	0	0	0	—	5·10	—	32	—
a St. Andrews		20	56·3	43·4	49·9	—	69	16th	35	16th	49·3	45·9	3·35	—	1·24	9th	17	0	0	2	0	4	4·85	—	30	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	56·6	42·9	49·8	+ 0·6	68	24th	30	16th	—	—	3·74	+1·58	1·62	6th	13	0	0	1	0	—	—	—	—	—
a Bellingham		848	56·4	40·6	48·5	—	70	30th	30	16th	—	—	2·79	—	0·67	6th	15	0	0	1	4	—	—	—	—	—
a Tynemouth		90	54·8	43·5	49·2	—	67	24th	34	16th	48·9	46·6	3·31	—	1·10	6th	15	0	1	2	4	1	3·90	—	25	—
a Chopwellwood		445	56·7	41·8	49·3	—	74	30th	29	16th	—	—	2·44	—	0·91	8th	15	0	0	2	2	9	4·07	—	26	—
a Ushaw		599	57·0	42·2	49·6	—	74	30th	33	16th	—	—	2·92	—	0·74	8th	17	0	0	2	7	—	—	—	—	—
a Ampleforth		349	58·9	44·0	51·5	—	70	30th	35	19, 20	—	—	2·05	—	0·55	8th	12	0	1	4	3	—	—	—	—	—
a West Witton		605	58·0	41·7	49·9	—	75	30th	34	3, 20	50·2	45·3	2·75	—	0·86	8th	16	0	2	3	6	3	—	—	—	—
a Fulbeck	¶	180	61·9	44·1	53·0	+ 1·2	78	27, 30	32	17th	—	—	1·92	+0·07	0·64	5th	11	0	1	0	0	8	—	—	—	—
a Rauceby	§	124	62·7	43·5	53·1	—	80	30th	32	17th	54·4	48·7	1·79	−0·15	0·65	6th	10	0	0	2	0	7	6·38	—	37	—
3. ENGLAND, E.																										
a Norwich		93	63·9	46·5	55·2	—	81	25,26,30	37	20th	54·9	—	1·16	—	0·24	29th	10	0	0	4	0	0	6·28	—	40	—
a Peterborough (Eye) ...		16	64·0	44·8	54·4	—	80	26th	34	17th	—	—	1·89	—	0·63	3rd	11	0	0	4	0	—	—	—	—	—
a Ridgewell		269	62·6	44·7	53·7	—	78	25th	35	20th	—	—	2·15	—	0·76	3rd	12	0	3	5	1	—	—	—	—	—
a Felixstowe		10	60·0	47·7	53·9	+ 1·7	74	27, 30	40	7, 20	—	—	2·89	—	1·19	27th	11	0	0	1	0	—	7·48	—	48	—
a Walton-on-Naze		68	59·4	48·0	53·7	—	71	28, 30	39	19th	—	—	1·91	—	0·62	27th	11	—	—	—	—	5	7·48	—	48	—
a Halstead		139	65·0	45·4	55·2	—	80	25, 29	35	20th	—	—	1·64	—	0·82	3rd	8	0	0	2	0	—	—	—	—	—
a Chelmsford		134	64·9	44·0	54·5	—	80	26, 29	34	7, 20	—	—	1·58	—	0·58	3rd	10	0	0	2	0	—	—	—	—	—
p Hemel Hempstead ...		535	61·5	43·0	52·3	—	77	26th	33	7th	—	—	1·93	—	0·71	3rd	14	0	0	1	0	13	—	—	—	—
a Rothamsted ...	¶§	424	62·8	43·8	53·3	+ 2·3	78	26th	33	7th	—	—	1·65	−0·36	0·65	3rd	14	0	0	2	0	—	6·68	+0·36	43	+2
a Shoeburyness		13	62·8	47·7	55·3	+ 2·7	78	27th	40	7, 19	—	—	1·30	+0·01	0·38	27th	9	0	0	0	0	—	—	—	—	—
a Southend		90	64·0	48·4	56·2	—	80	27th	38	7, 19	56·4	—	1·42	+0·04	0·69	27th	9	0	1	2	0	0	7·31	—	47	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	57·9	42·9	50·4	+ 1·5	74	30th	34	7th	49·1	47·2	2·15	+0·17	0·51	8th	13	0	0	1	0	0	4·52	—	29	—
a Bradford		439	58·4	44·2	51·3	—	76	30th	36	7th	49·9	45·8	2·59	—	0·60	6th	14	0	0	0	0	—	4·79	—	30	—
a Meltham		513	59·4	42·8	51·1	—	77	30th	32	7th	50·3	—	3·04	—	0·59	6th	17	0	0	1	0	4	—	—	—	—
a Cheadle	¶	646	59·1	43·4	51·3	+ 1·6	75	26, 30	30	15, 18	—	—	2·42	+0·21	0·58	3rd	13	—	—	—	—	2	—	—	—	—
a Wellington		207	62·8	41·5	52·2	—	80	26th	30	19th	—	—	1·72	—	0·61	3rd	12	0	0	2	0	—	—	—	—	—
a Bawtry	¶	65	62·8	—	—	—	78	26th	—	—	—	—	1·59	−0·31	0·62	6th	10	—	—	—	—	—	—	—	—	—
a Matlock		636	61·1	43·0	52·1	—	78	26th	33	7th	—	—	2·46	—	0·43	3rd	17	0	0	5	0	—	4·51	—	29	—
a Belper		222	62·3	42·6	52·5	—	78	26, 30	30	7th	—	—	1·91	—	0·44	3rd	12	0	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...		280	60·5	44·2	52·4	—	75	25, 30	35	17, 19	—	—	2·14	−0·20	0·44	3rd	14	0	0	2	0	—	—	—	—	—
a Mayfield (Staffs)		374	60·6	41·5	51·1	—	76	26th	29	7th	—	—	2·59	—	0·56	3rd	17	0	3	5	0	4	5·10	—	33	—
a Strelley		377	61·1	44·0	52·6	+ 1·7	75	25,26,30	33	7th	52·9	—	2·05	−0·01	0·72	3rd	14	0	2	4	1	—	5·16	−0·45	33	− 3
a Kingston-on-Soar... ...		125	62·8	42·6	52·7	—	78	26th	31	7th	54·0	—	2·15	—	0·98	3rd	9	0	0	0	1	—	—	—	—	—
a Sparkhill		425	62·4	42·8	52·6	—	80	26th	33	7th	—	—	2·05	—	0·69	3rd	15	0	1	3	0	9	—	—	—	—
p Rugby		379	62·9	42·1	52·5	+ 1·6	80	26th	31	17th	—	—	1·51	—	0·57	3rd	11	0	0	1	0	5	—	—	—	—
a Raunds	¶	204	64·5	44·0	54·3	+ 2·5	81	25th	33	7th	53·3	48·9	1·70	—	0·60	3rd	11	0	1	3	0	1	6·35	—	41	—
a Malvern		520	61·2	45·3	53·3	—	77	25, 26	38	7, 16, 19	—	—	3·10	—	0·80	3rd	16	—	—	—	—	—	5·88	—	38	—
a Ross...		214	63·1	44·9	54·0	—	81	26th	34	2nd	—	—	2·16	—	0·43	3rd	13	0	0	0	1	—	—	—	—	—
a Hereford	¶	291	61·8	43·4	52·6	+ 0·6	80	26th	33	2nd	—	—	2·24	+0·20	0·41	3rd	15	0	0	0	0	2	—	—	—	—
a Leamington		165	62·2	44·5	53·4	—	79	26th	33	7th	56·9	51·1	2·38	—	0·67	3rd	17	0	0	2	0	1	5·35	—	35	—
a Cirencester... ...	¶§	446	60·9	42·1	51·5	+ 0·8	78	26th	30	7th	51·2	48·8	2·42	+0·34	0·38	4th	16	—	—	—	—	1	6·96	+0·38	45	+ 3
a High Wycombe		249	63·4	44·4	53·9	—	81	26th	32	7th	—	—	2·11	—	0·64	3rd	14	0	1	4	1	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	62·5	43·4	53·0	—	79	26th	31	7th	—	—	2·88	—	0·75	3rd	13	0	0	0	0	1	—	—	—	—
a Wokingham		216	—	40·2	—	—	—	—	27	7th	—	—	1·75	—	0·61	3rd	9	0	0	0	0	—	—	—	—	—
a Marlborough ...	¶§	424	61·6	42·1	51·9	+ 1·0	78	26, 27	31	7th	—	49·7	2·56	+0·58	0·72	3rd	13	0	0	1	0	3	5·85	−0·15	38	− 1
a Bucklebury		409	61·5	44·1	52·8	—	77	26th	33	7th	—	—	2·36	—	0·62	3rd	12	0	0	1	0	10	—	—	—	—
a New Malden		39	65·2	45·3	55·3	—	83	26th	35	7th	54·7	49·6	1·83	—	0·72	29th	10	0	0	2	0	5	6·34	—	41	—
a Croydon (Addington) ...		472	62·0	46·2	54·1	—	78	26th	36	7th	—	—	1·15	—	0·40	29th	10	0	0	2	0	—	—	—	—	—
a Wallington		144	63·8	46·2	55·0	—	80	26, 27	35	7th	55·3	52·5	1·35	—	0·41	29th	10	0	0	4	0	1	—	—	—	—
a Woking		180	64·9	44·8	54·9	—	81	26, 27	32	7th	54·9	—	1·64	—	0·47	29th	11	—	—	—	—	1	—	—	—	—
a Margate	¶§	35	62·3	47·7	55·0	+ 2·6	80	29, 30	40	7, 20	53·2	50·4	1·71	+0·11	0·30	1st	12	0	0	2	0	0	6·24	−1·5	40	− 1
a Aldershot		231	62·3	44·7	53·5	—	79	27th	34	7th	—	—	1·90	—	0·51	29th	15	0	1	2	0	—	—	—	—	—
a Wisley	¶§	150	63·7	45·2	54·5	+ 2·0	80	26th	35	7th	54·9	50·8	1·68	—	0·61	29th	10	0	0	3	0	7	7·05	—	46	—
a Basingstoke		289	62·5	44·6	53·6	—	79	26th	32	7th	52·8	49·0	2·15	—	0·54	3rd	8	0	0	1	0	0	—	—	—	—
a Sevenoaks		509	63·2	45·5	54·4	—	81	26th	36	7th	54·9	49·3	1·39	—	0·46	29th	12	0	0	2	0	0	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		319	63·1	45·1	54·1	—	80	26th	36	7th	—	—	0·90	—	0·36	29th	9	0	1	4	0	2	—	—	—	—
p Folkestone... ...		121	59·7	48·2	54·0	—	76	26th	41	19, 23	—	49·7	1·01	−0·69	0·34	9th	11	0	0	2	2	—	7·29	—	48	—
v Bexhill		27	60·0	48·8	54·4	—	73	26th	38	7th	56·4	—	0·71	—	0·15	12th	9	0	0	1	2	0	7·56	—	49	—
a Worthing	§	36	61·5	47·2	54·4	+ 2·1	76	26, 27	34	7th	56·1	51·8	2·40	+0·89	0·77	29th	9	0	1	2	0	1	7·59	—	50	—
a Bognor		20	60·0	47·6	53·8	—	70	26th	37	7th	—	50·2	1·80	—	0·52	29th	8	0	0	2	0	—	7·81	—	51	—
a Selsey Bill		21	59·8	46·8	53·3	—	71	26th	38	2, 7	—	—	1·96	—	0·44	12th	11	0	0	1	3	0	7·95	—	52	—
a Totland Bay		140	59·6	47·2	53·4	+ 1·7	76	26th	39	4, 7	—	—	2·81	+1·12	0·95	29th	11	0	0	2	3	0	7·71	—	50	—
a Sandown		20	62·2	47·7	55·0	—	78	27th	39	4, 7	—	—	2·55	—	0·72	29th	10	0	0	1	0	—	7·74	—	51	—
p Bournemouth		145	62·1	46·5	54·3	—	77	27th	37	7th	53·9	51·7	2·34	—	0·45	12th	14	—	—	—	—	—	7·57	—	49	—

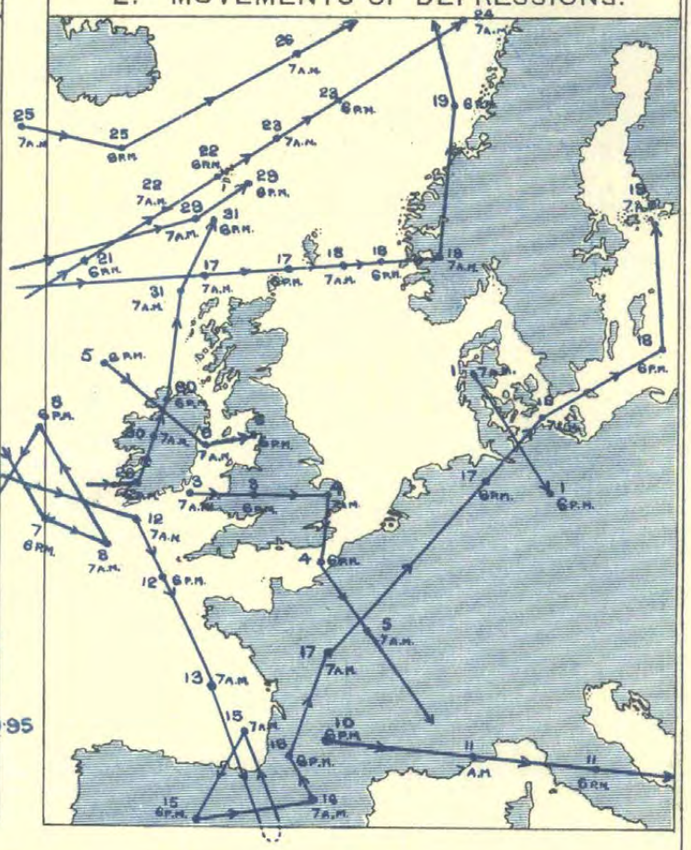
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in May based on 35 years' observations, 1871–1905.



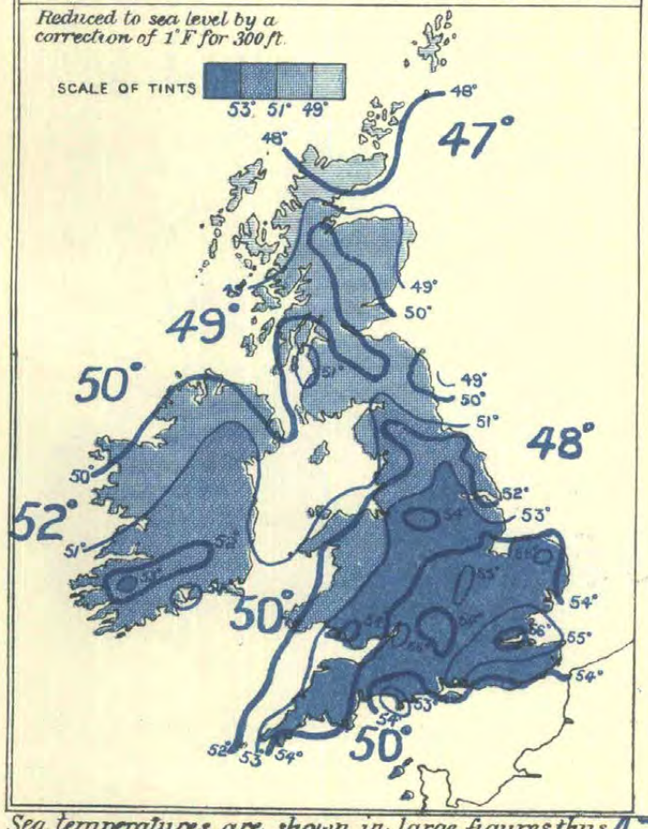
WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG ← 30 Obsns = 1 Inch →

2. MOVEMENTS OF DEPRESSIONS.



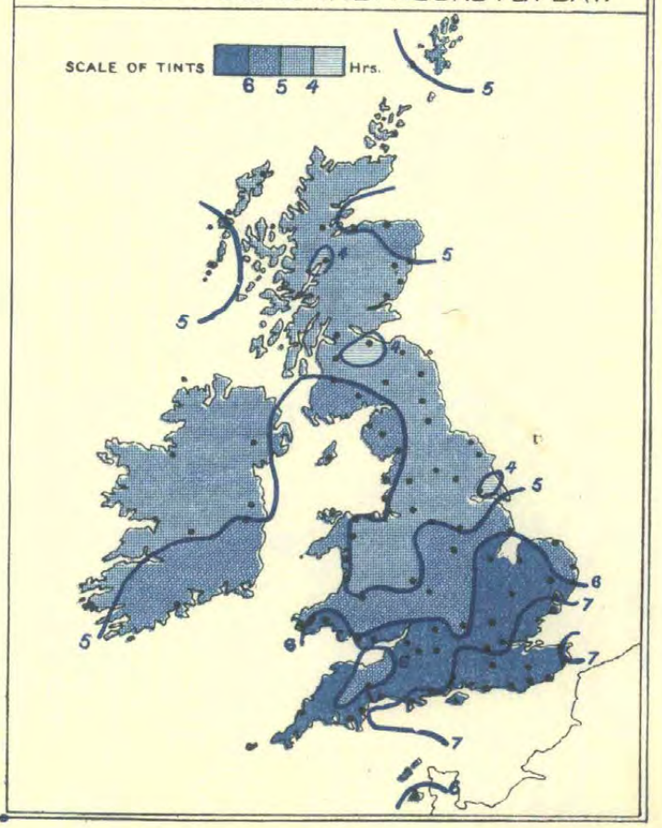
3. DISTRIBUTION OF MEAN TEMPERATURE.

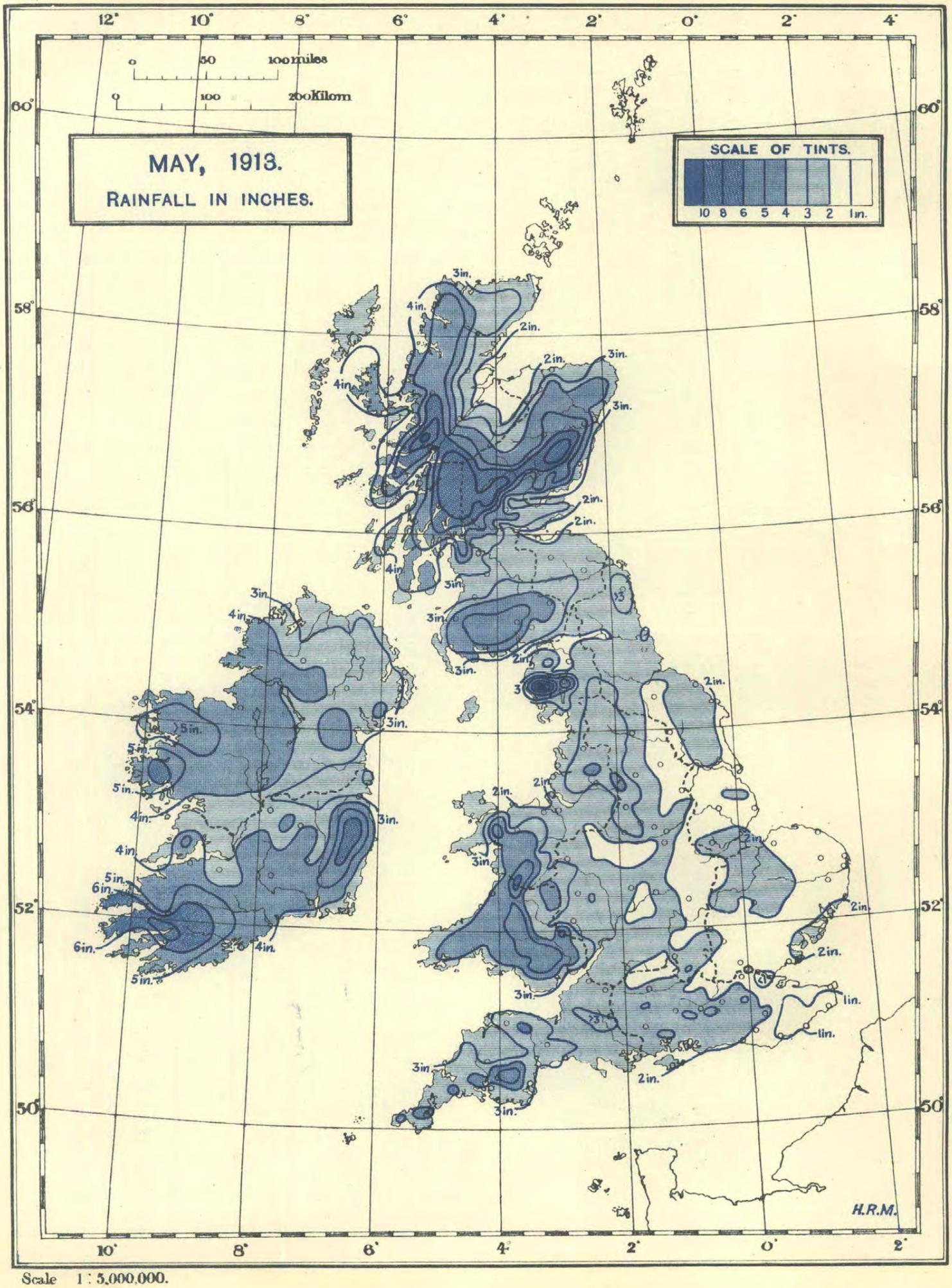
Reduced to sea level by a correction of 1°F for 300 ft.



Sea temperatures are shown in large figures thus 47°

4. BRIGHT SUNSHINE. HOURS PER DAY.





Scale 1 : 5,000,000.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, MAY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	64·7	45·2	55·0	—	81	26th	34	7th	—	50·2	1·59	—	0·49	29th	10	0	1	2	0	0	6·37	—	41	—
a Golders Green	279	63·7	45·7	54·7	—	81	26th	35	19th	—	—	1·91	—	0·68	29th	13	0	0	2	0	—	—	—	—	—
p Hampstead (Redington Rd.)	375	63·9	45·7	54·8	—	81	26th	36	19th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon	51	66·3	46·4	56·4	—	84	27th	34	7th	—	—	1·37	—	0·44	29th	11	0	0	3	0	1	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	55·0	43·4	49·2	—	69	30th	36	2nd	—	—	3·67	—	0·72	20th	25	0	1	2	0	0	4·24	—	26	—
a Ardnadam	64	57·0	42·6	49·8	—	65	13, 30	37	2, 20	—	—	5·63	—	0·76	5th	23	0	1	3	1	1	—	—	—	—
a Thorntonhall (Lanarkshire)	440	55·7	41·0	48·4	—	70	30th	33	2, 20	—	—	2·38	—	0·62	8th	21	0	3	2	0	1	3·98	—	25	—
a Kilmarnock ¶	90	57·7	43·1	50·4	+ 0·2	70	30th	35	2, 16	—	—	2·81	—	0·46	5th	19	0	0	0	0	—	5·09	—	32	—
p Ruthwell S	67	58·8	43·1	51·0	—	75	30th	34	16th	—	—	3·52	—	0·66	3, 13	17	0	0	7	0	—	5·07	—	32	—
7. ENGLAND, N.W.																									
a Scaleby	111	59·5	42·9	51·2	—	77	30th	32	16th	—	—	1·88	—	0·28	3rd	21	0	0	3	0	—	—	—	—	—
a Seathwaite	422	57·5	43·1	50·3	—	74	30th	34	2, 16	—	—	7·18	—	1·01	3rd	21	0	2	3	0	—	—	—	—	—
a Carnforth	174	58·3	43·5	50·9	—	76	30th	32	16th	—	—	2·17	—	0·57	3rd	17	0	1	2	0	3	5·08	—	32	—
a Lancaster	311	58·5	44·9	51·7	—	76	30th	35	16th	52·3	51·9	2·59	—	0·72	3rd	17	0	0	1	0	9	4·29	—	27	—
a Hutton	81	58·4	42·9	50·7	—	74	30th	32	2nd	50·7	47·5	2·87	—	0·81	3rd	16	0	0	2	2	3	4·88	—	31	—
a Burnley	459	58·4	42·5	50·5	—	75	30th	32	2, 7	50·2	46·5	3·62	—	0·97	23rd	17	—	—	—	—	5	4·65	—	30	—
a Leyland	124	58·8	43·8	51·3	—	74	30th	34	7, 16	—	—	3·31	—	0·81	3rd	17	0	1	3	0	3	4·39	—	28	—
a Bolton	341	59·2	45·1	52·2	—	75	30th	35	7th	50·1	47·2	3·40	—	0·64	6th	22	1	1	2	0	2	3·18	—	20	—
a Blundellsands	34	58·2	45·6	51·9	—	75	30th	35	16th	—	—	2·44	—	0·59	3rd	22	0	0	3	0	—	—	—	—	—
a Hoylake §	30	59·8	45·1	52·5	—	74	30th	34	7th	—	—	3·00	—	0·73	3, 4	18	0	0	1	0	0	4·59	—	29	—
a Rhyl	30	58·1	44·5	51·3	—	74	30th	35	16th	—	—	1·83	+0·21	0·34	3rd	19	0	0	3	0	0	5·41	—	34	—
a Colwyn Bay	82	58·2	45·7	52·0	—	75	30th	37	7th	—	—	1·68	—	0·42	3rd	13	0	0	0	1	—	2·75	—	32	—
a Llanberis (Pen-y-Gwryd)	913	55·3	41·0	48·2	—	66	28th	34	7th	—	—	7·23	—	1·88	3rd	21	0	0	0	5	—	—	—	—	—
a Macclesfield	500	60·1	43·5	51·8	—	76	30th	33	16th	—	—	2·97	—	0·76	3rd	18	0	1	3	0	—	—	—	—	—
a Northwich	117	62·5	44·7	53·6	—	76	30th	33	7th	—	—	2·24	—	0·63	3rd	18	0	2	3	0	—	—	—	—	—
a Hawarden Bridge ¶	22	59·4	45·2	52·3	+ 0·2	76	30th	35	7th	—	—	2·37	+0·86	0·62	3rd	18	—	—	—	—	—	—	—	—	—
a Ruthin	449	57·6	44·3	51·0	—	72	30th	34	16th	—	—	3·03	—	0·84	3rd	18	0	3	2	0	—	—	—	—	—
a St. Asaph	479	57·2	44·5	50·9	—	72	30th	35	16th	—	—	2·73	—	0·68	3rd	21	0	2	1	0	5	—	—	—	—
a Welshpool	255	61·6	42·6	52·1	—	77	26th	29	7th	—	—	2·90	—	0·56	31st	19	0	2	2	0	—	—	—	—	—
p Aberdovey §	22	57·8	47·2	52·5	—	72	30th	41	16th	—	—	3·05	—	0·45	3rd	22	0	1	0	0	—	5·28	—	34	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	56·7	46·9	51·8	—	72	30th	39	7th	—	—	3·70	—	0·49	31st	22	0	1	0	0	—	5·04	—	32	—
a Gwernyfed	374	61·1	41·9	51·5	—	77	26th	30	7th	—	—	2·07	—	0·38	8th	19	0	0	3	0	—	—	—	—	—
a Haverfordwest	93	56·4	45·0	50·7	—	69	26, 27	37	2nd	—	—	4·06	—	1·20	7th	18	0	0	1	6	—	6·18	—	40	—
a Swansea	24	60·4	47·5	54·0	—	76	26th	40	2, 7	56·3	—	3·53	—	0·70	7th	20	0	0	0	0	4	6·04	—	39	—
a Clifton ¶	229	62·3	46·9	54·6	+ 1·2	79	26th	40	2, 7, 16	—	—	2·49	+0·35	0·55	3rd	16	—	—	—	—	0	6·75	—	44	—
a Weston-Super-Mare	29	61·1	46·1	53·6	—	80	26th	39	7th	—	—	1·85	—	0·30	5, 21	15	0	1	2	0	0	5·73	—	37	—
a Minehead	104	61·1	45·4	53·3	—	78	28th	36	2nd	—	—	2·34	—	0·40	3rd	17	0	0	0	2	—	5·41	—	35	—
a Ilfracombe	24	58·4	48·0	53·2	—	71	28th	43	2, 4, 7	54·9	52·1	2·60	—	0·67	7th	18	0	0	0	4	0	6·41	—	42	—
a Arlington ¶	613	58·8	44·1	51·5	+ 0·9	76	26th	37	2nd	—	—	3·22	+0·44	0·66	3rd	16	0	0	0	0	—	—	—	—	—
a Cullompton ¶§	202	62·8	44·0	53·4	+ 0·9	81	26th	34	2nd	54·5	—	3·65	+1·60	0·99	7th	20	0	0	2	1	0	5·70	−0·78	37	− 5
a Rousdon	515	57·7	44·5	51·1	+ 0·8	70	26, 27	36	2nd	54·7	52·2	2·85	+0·95	0·50	7th	17	0	0	1	6	0	6·21	—	40	—
a Sidmouth	147	59·6	46·1	52·9	—	71	27th	36	2nd	—	—	3·52	—	0·83	7th	20	0	0	2	4	1	—	—	—	—
a Killerton	160	62·3	44·5	53·4	—	80	26, 27	34	2nd	—	—	3·66	—	0·82	9th	16	0	2	1	2	1	—	—	—	—
a Shaftesbury ¶	722	59·5	44·7	52·1	+ 1·6	76	26th	36	7th	52·7	49·5	2·45	+0·35	0·48	4th	13	—	—	—	—	—	—	—	—	—
a Dorchester	314	60·1	45·2	52·7	—	78	26th	36	2nd	—	—	2·47	—	0·44	12th	14	0	0	1	2	—	7·19	—	47	—
a Weymouth	21	60·9	47·5	54·2	—	73	27th	40	2nd	—	—	2·06	—	0·41	14th	15	0	0	3	0	—	7·23	—	47	—
a Torquay	12	61·2	48·2	54·7	—	77	27th	40	2nd	—	—	2·59	—	0·69	11th	15	0	0	0	1	0	7·05	−0·31	46	− 2
p Paignton	11	60·4	46·7	53·6	—	77	27th	37	2nd	—	—	2·94	—	0·69	12th	17	0	0	1	2	0	6·57	—	45	—
a Salcombe	39	60·3	47·2	53·8	—	71	26th	37	2nd	—	—	2·47	—	0·50	11th	15	0	0	0	7	—	6·87	—	45	—
a Tavistock	374	59·2	45·6	52·4	—	77	26th	34	2nd	—	—	4·42	—	1·13	7th	23	0	4	6	3	3	—	—	—	—
a Ashburton	583	60·4	46·4	53·4	—	76	27th	39	2, 4	—	—	4·12	+1·58	1·16	7th	20	0	0	1	2	—	—	—	—	—
a Fowey	51	60·1	48·0	54·3	—	75	27th	41	2nd	—	—	3·58	—	0·73	8th	18	0	0	2	3	—	6·18	—	40	—
a Redruth	397	57·7	46·4	52·1	—	72	26th	40	4th	—	—	4·40	—	1·22	7th	21	0	4	1	4	—	—	—	—	—
a Penzance	54	59·2	48·9	54·1	—	75	27th	43	2nd	—	—	3·71	—	0·74	7th	20	0	0	0	2	—	6·27	—	41	—
9. IRELAND, N.																									
p Dunfanaghy	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Lisburn	207	60·8	42·0	51·4	—	72	24th	32	7th	—	—	3·85	—	0·58	6th	21	0	1	3	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	58·3	44·5	51·4	+ 1·3	69	24th	33	5th	—	—	2·75	+0·74	0·65	5th	14	0	2	2	0	7	—	—	—	—
a Kingstown	42	57·6	46·6	52·1	—	68	25, 26	38	7th	—	—	2·51	—	0·65	5th	13	—	—	—	—	—	5·06	—	32	—
p Clongowes Wood Col.	245	58·1	43·0	50·6	—	66	26th	32	5, 18	—	—	3·02	—	0·58	5th	22	0	2	0	0	5	5·59	—	36	—
a Mountmellick	239	57·9	44·0	51·0	—	67	16, 26, 27	34	5, 7	—	—	3·77	—	0·50	7th	23	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	55·6	43·7	49·7	—	67	24th	36	7th	—	—	4·70	—	1·15	5th	16	0	0	0	0	—	—	—	—	—
a Kilkenny ¶	195	58·3	44·8	51·6	0·0	68	26, 27	33	5th	—	—	3·65	+1·59	0·59	7th	21	0	3	1	0	—	—	—	—	—
a Cahir ¶	199	59·4	44·4	51·9	+ 0·3	70	26, 27	34	5, 7	—	—	3·82	—	0·75	8th	21	0	1	1	1	—	—	—	—	—
a Wexford	99	57·2	45·3	51·3	—	63	13, 27	37	7th	—	—	3·70	—	0·68	7th	16	0	0	1	4	—	—	—	—	—
a Waterford ¶	100	57·8	45·3	51·6	+ 0·1	70	26th	36	5, 7	—	—	4·47	+2·37	0·95	8th	14	0	2	2	0	—	—	—	—	—
p Waterford Trg. Coll.	20	58·2	44·7	51·5	—	72	26th	35	7th	—	—	4·39	—	0·89	8th	16	0	1	1	0	—	—	—	—	—
a Foynes ¶	108	57·2	44·3	50·8	− 0·7	70	27th	36	7th	—	—	4·43	+2·20	0·64	3rd	24	0	0	1	0	—	—	—	—	—
a Killarney ¶	174	59·2	45·9	52·6	+ 0·5	73	27th	38	7th	—	—	4·91	+1·95	0·98	7th	22	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	56·4	45·0	50·7	—	66	13th	36	7th	—	—	4·24	—	0·88	8th	18	0	0	1	3	—	5·51	—	36	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	59·7	48·0	53·9	+ 1·1	78	26th	43	4th	—	—	2·12	+0·21	0·33	3rd	19	0	0	1	0	—	6·54	−1·78	43	−12

DISTRICT VALUES—MAY, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	72	29	54·1	42·6	48·0	+0·2	49·4	−0·7	—	—	3·23	+0·49	20	4·29	−1·15	26	− 7	7·6	7·3	7·5	30·45	14th	29·19	18th
Eastern.																								
1. SCOTLAND, EAST ...	74	27	56·0	41·1	48·2	−0·2	49·3	−0·2	45·8	+0·1	2·42	+0·26	16	4·77	−1·19	29	− 8	7·4	6·7	6·8	30·43	14th	29·37	31st
2. ENGLAND, N.E. ...	80	29	58·5	44·0	50·9	+1·6	51·3	+0·5	47·4	+0·6	2·36	+0·56	14	5·07	−1·21	32	− 8	7·1	—	6·7	30·40	14, 15	29·41	4th
3. ENGLAND, EAST ...	81	33	62·0	46·3	53·8	+2·6	55·2	+0·8	51·4	+0·5	1·65	−0·22	12	6·34	−0·31	41	− 2	7·0	6·2	5·4	30·31	21, 24	29·32	4th
4. MIDLAND COUNTIES	81	29	61·3	43·8	52·1	+1·0	51·8	+2·5	48·1	+0·3	2·18	+0·11	14	5·55	−0·44	36	− 2	6·9	6·7	5·6	30·32	24th	29·39	4th
5. ENGLAND, S.E. ...	84	27	61·7	46·4	53·7	+1·3	54·6	+0·7	50·8	+0·8	1·78	−0·02	11	7·05	+0·31	46	+ 2	6·1	6·0	4·8	30·33	24, 25	29·37	4th
Western.																								
6. SCOTLAND, WEST ...	75	29	56·9	43·1	49·6	−0·3	51·7	—	48·5	+0·7	3·88	+1·01	22	5·53	−0·80	35	− 5	7·9	—	6·8	30·39	14, 15	29·44	30th
7. ENGLAND, N.W. ...	77	29	57·9	44·4	50·8	+0·1	51·3	−0·2	48·2	0·0	2·48	+0·25	20	5·09	−1·34	32	− 9	7·3	6·4	5·8	30·29	25th	29·21	8th
8. ENGLAND, S.W. ...	81	30	59·2	45·8	52·1	+0·4	54·1	−0·3	50·2	+0·3	2·96	+0·78	17	5·89	−0·83	38	− 6	6·5	6·4	6·0	30·37	24th	29·13	8th
9. IRELAND, NORTH ...	72	32	55·8	44·0	49·5	−0·8	51·1	−1·2	48·0	−0·8	3·40	+0·96	24	4·60	−1·47	29	− 9	7·4	6·6	6·5	30·45	14th	28·86	8th
10. IRELAND, SOUTH ...	73	31	57·7	45·3	51·1	−0·7	53·5	−0·5	49·5	−0·3	4·26	+1·76	21	4·86	−1·65	31	−11	7·3	7·4	6·5	30·37	14th	28·90	8th
11. ENGLISH CHANNEL ...	80	42	58·4	47·9	52·8	−0·3	55·0	−0·1	52·1	+0·6	2·22	+0·30	18	6·16	−1·86	41	−12	7·0	6·4	6·4	30·39	24th	29·05	8th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Ramsgate ...	7·04	—	46	—
Broadstairs ...	7·21	—	47	—
Littlestone§ ...	7·54	—	49	—
Hove	7·12	—	46	—
Westbourne ...	7·98	—	52	—
LONDON.	hr.		%	
Bunhill Row ...	5·94	+0·29	39	+ 2
Plumstead ...	5·12	—	33	—
8. ENGLAND, S.W.				
Tenby	6·28	−0·95	41	− 6
Port Talbot ...	5·65	—	37	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	1·56	—	0·30	9th	11
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	3·21	—	0·61	7th	15
Forest of Dean (900 ft.)	3·68	—	0·65	12th	16

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905 ; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, June 28, 1913.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. VI. JUNE, 1913. [*Price 6d.*

A VARIABLE MONTH: DRY IN ENGLAND.

Pressure, Winds and Weather.—During the month now under review three separate and fairly well-defined types of atmospheric pressure distribution determined the character of the weather over the British Isles. Through the first four days the eastern and southern districts were mainly under the influence of anticyclonic systems which occupied the middle belt of the Atlantic and the greater portion of the European Continent, while the western and northern districts were affected by a succession of depressions coming from the vicinity of Hudson Bay and Newfoundland, and crossing the upper region of the Atlantic on north-easterly paths towards the Faröe and the northern extremity of Scandinavia. These disturbances, however, were of comparatively little intensity, there being very few barometer readings below 29·5 in. far out on the ocean, while over the south-east quarter of England there was no record as high as 30·2 in. On the 5th the distribution of pressure underwent some modification, small in itself, but sufficient to alter to a marked extent the conditions over this country. The anticyclones still held on the Atlantic and eastward across the Continent, but an area of relatively high pressure developed over the Greenland and Arctic Sea region. This change served to alter the paths of advance of the disturbances on the upper Atlantic, which now came more directly towards our coasts, and at the same time were deeper than their predecessors. In one of these, which skirted the Hebrides on the 7th, the barometer fell to 29·15 in. at Stornoway, and to 29·06 in. at the Faröe. The centre of a depression which appeared on the 60th parallel, in about 35° W., on the 8th maintained a steady course due East, deepening as it advanced, the barometer descending to 29 in at Lerwick on the morning of the 10th, and slightly below 29 in. over Southern Norway in the evening; the centre subsequently passed along the Gulf of Finland into Russia. This was the deepest disturbance of the month. Immediately after its passage past Shetland there was a general rise of the barometer, and from the 11th until the end of the month the weather was almost entirely of an anticyclonic character, interrupted temporarily by a couple of shallow depressions which moved eastward across Southern Scotland in the nights of the 18th and 23rd respectively. There were a few occasions during this period of three weeks when the barometer mounted to about 30·5 in. out at the Azores, but the maximum pressure was attained on the 28th, when the central space of the system arrived over and off our south-western coasts, the barometer rising to 30·52 in. at Scilly and Roche's Point, 30·54 in. at Valencia, and slightly higher on vessels a little distance out at sea.

In the extreme north of Scotland the mean pressure for the whole month was a trifle below the normal, by 0·025 in. at Wick, but over the rest of the Kingdom it showed an excess, increasing southward to as much as 0·12 in. at Scilly, and 0·14 in. at Jersey. Compared with the corresponding month of 1912 the results are much higher, by 0·31 in. on the south-western coasts. The figures indicate an area of minimum pressure to the southward of Iceland, and one of maximum pressure extending from France westward across the Azores. Off the south coast of Iceland the barometer averaged 29·83 in., and over the British Isles the values ranged from 29·93 in. at Lerwick to 30·17 in. at Jersey. On the Brittany coast the value was 30·19 in., and at the Azores 30·35 in. The mean pressure gradient, which was of a strongly marked Westerly type, was much steeper than usual, amounting to 0·24 in. between Lerwick and Jersey, against the normal for the month, 0·09 in.

Generally the conditions which obtained in the opening days were of a quiet character, but on the 2nd the approach of one of the Atlantic disturbances towards our coasts brought about a considerable increase in the South-Westerly wind in the extreme west and north, to a high wind (force 7) at Glasgow, a gale (force 8) at Blacksod and Nairn, and a strong gale (force 9) at Malin Head. The rainfall, however, was practically confined to a few of the more mountainous districts, just over an inch on the slopes of Snowdon, and nearly an inch in the west of Scotland, at Fort William, Cruachan and Gruline.

The roughest spell of the month was from the 5th to the 10th. A shallow depression moving northward outside the western coasts on the 5th, developed irregular secondaries over Britain on that and the following day. With the exception of a high wind locally in the south-west and west, a gale at Malin Head and on the Bristol Channel, and a strong gale at Lundy, there was not much wind, but on both days thunderstorms, apparently of no great severity, visited various parts of England and Scotland. The only heavy rains were on the highlands of the west, from 1 in. to 1·5 in. in Snowdonia, and over an inch on Dartmoor (Princetown) on the 5th, and still heavier falls next day, 1·5 in. to 2·2 in. about Snowdon, and 1·3 in. at Seathwaite. Much more wind was produced by the depression which passed round the north of Scotland on the 7th and 8th, its influence being extended by the formation of secondaries on its southern border. A South-Westerly to Westerly gale was felt as far south as Pembroke and Dungeness on the 7th, gusts at the rate of 48 miles per hour being registered at Pendennis Castle, and of 54 miles at Aberdeen. Next day the wind reached the force of a strong gale from West at Castlebay, and from North-West at Malin Head. Heavy rain was measured only at a few stations in western Scotland, on the 7th, 1·2 in. at Glencarron; and on the 8th 1·2 in. at Fort William, 1·3 in. at Cruachan, and 1·6 in. at Glencarron.

The culmination of the rough weather was reached in the unusually severe summer gale of the 9th and 10th, during the passage of the deepest cyclonic system of the month along the 60th parallel. A South-Westerly to Westerly or North-Westerly gale blew in many localities, a strong gale at Malin Head, Blacksod, Holyhead, and Caldy, and gusts of 54 miles an hour at Quilty, and 58 miles at Pendennis on the 9th; and on the 10th a strong gale at Caldy, Lundy, the Owers, Dungeness, Flamborough Head, and the Farne Islands, a whole gale (force 10) at the Scarweather, off Swansea Bay, while gust velocities of 60 miles an hour were registered at Shields, 63 miles at Southport, and 64 miles at Aberdeen. A great rainstorm occurred in the mountainous regions on the 9th; the greatest falls reported were 1·5 in. at Mount Callan, in Ireland; 1·8 in. at Fort William, and 1·9 in. at Inverary, in Western Scotland; 4·2 in. at Seathwaite, in north-western England; and 2·1 in. at Gogerddan and in Snowdonia, 3·9 in. at Intake, 4·4 in. at Llanberis (Penygwryd), and 4·6 in. at Copper Mill, in Wales. On the other hand, the lowland regions had little or none, and on the 10th there was no considerable fall at any of the mountain stations.

Through the remaining three weeks anticyclonic conditions ruled, the weather generally being very dry, numerous stations reporting only one, two or three trifling showers after the 8th, 9th or 10th, Golders Green one shower of 0·01 in. in 22 days; Lerwick was rainless through 15 consecutive days, the 13th to the 27th. There were local exceptions, various districts being visited by thunderstorms. Some of the storms were severe, and attended by hail. The heaviest was experienced in some of the eastern counties of England on the 17th, when several places received over an inch of rain, Brampton Grange 2·1 in. in an hour and a quarter, and Great Paxton 2·9 in., of which 2·8 in. fell in an hour and a quarter. The shallow depression of the 18th gave Armagh 1·9 in. of rain, and next day Hafod Fawr, Festiniog had 4·3 in. in 8 hours. The depression of the 23rd gave Seathwaite 1·4 in. on that day, and 1·3 in. on the next; otherwise there was very little rain or wind.

Over the eastern half of the kingdom the mean temperature for the month was rather above the normal, while the western districts returned a deficiency, about 2° in Ireland. As a general rule the days were very cool, maxima below 55° being registered on various dates in several localities, 49° at Fort William on the 8th, and at Eskdalemuir on the 9th; 48° at Glencarron on the 8th; and 47° at Lerwick on the 12th. There were, however, a couple of sudden incursions of heat. On the 16th-17th the thermometer passed 80° in many places, and reached 87° at Wimbledon and Greenwich, and 88° at Wantage. The 29th was nearly as warm, 82° at Southampton, and 83° at Ross and Wilton (Salisbury). The nights were milder, relatively, than the afternoons, minima below 50° being uncommon, though there were a few below 40°, as low as 34° at Llangammarch Wells on the morning of the 2nd, and 33° at Matfield on the 1st, Eskdalemuir on the 2nd, Castle Forbes on the 12th, and Wick on the 13th. The night of the 16th had local minima as high as 60° to 63°.

A slight auroral arch from north-east to north-west, and reaching to about 45° at the centre, was observed at Southampton between 8·20 and 9 p.m. on the 3rd.

The temperature of the coastal sea water was appreciably warmer than during May, by as much as 6° or 7° in places, but the water was colder than the air on shore on the east coast of Britain and in the Western Channels, by from 5° to 7° between the Tay and the Tees. Off the north-west of Ireland the water was slightly warmer than the air.

Fog was of frequent occurrence on the western coasts; on the eastern coasts, mainly the northern half, round the 5th, and again from the 16th to the 25th. There were occasional reports of fog on the south coast from the 12th to the 26th.

Rainfall.—There was an excess of precipitation in the more mountainous districts, while the lowlands returned a considerable deficiency. Glencarron had 215 per cent. of the normal, Fort Augustus 187, Bendamph 183, Gogerddan 180, and Fort William 177 per cent., but many neighbourhoods had less than 30 per cent., Oxford, Portsmouth and Southend 23, Marlborough 22, Ventnor and Westminster 21, Kew Observatory 19, and Shoeburyness 9 per cent. Over a great portion of southern England the total was less than ½ in., as small as 0·17 in. at Shoeburyness, and 0·13 in. at Eltham. Glencarron measured rain on 24 days, but few other places on as many as 20 days, while a large number returned less than 10 days, as few as five at several, and only four at Wantage.

Bright Sunshine.—The duration of sunshine varied from 107 per cent. of the normal at Rothamsted and Worksop, 106 at Oxford, and 105 at Eastbourne to 73 at Markree Castle, 68 at Stornoway, and 58 per cent. at Stonyhurst. The daily values ranged from 3·6 hours at Castlebay, and 3·8 at Stonyhurst to 8·1 at Cardiff and Exmouth, and 8·2 hours at Clifton.

(31026—24.) Wt. 196—786. 1475. 7/13. D & S G. 30 Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands *a* Castlebay		7, 1, 9	48	9·896	+·007	9·961	55·3	48·2	51·8	−1·8	66	17th	41	13th	—	—	51·2	53·6	51·9	1·4	2·6	1·9	·340	·339	·336	91	82	87
Islands *p* Deerness	§	9, −, 9	163	9·747	—	9·922	56·3	46·9	51·6	+0·3	64	24th	39	13th	—	—	51·0	—	49·5	2·0	—	1·4	·328	—	·321	87	—	90
Islands *a* Lerwick	¶§	7, 1, 9	59	9·865	−·016	9·930	53·7	46·5	50·1	+0·4	62	20th	38	13th	—	—	49·3	52·4	49·8	1·9	3·1	2·0	·304	·314	·307	87	80	87
Islands *a* Stornoway	¶§	7, 1, 9	52	9·890	−·002	9·939	58·1	47·9	53·0	+0·6	66	15, 18	37	13th	—	—	51·5	56·1	50·9	1·5	3·3	1·4	·341	·359	·338	89	79	91
Mainland *a* Wick	¶	7, 1, 9	94	9·826	−·025	9·935	55·7	46·0	50·9	−1·3	64	16th	33	13th	—	—	50·0	53·2	50·2	1·1	1·9	0·7	·332	·352	·346	92	87	96
Mainland *p* Strathpeffer	¶§	9, −, 9	210	9·708	—	9·930	63·5	48·0	55·8	+1·7	76	15th	41	2, 9, 10	—	—	57·0	—	53·6	4·0	—	2·6	·351	—	·339	75	—	82
Mainland *a* Glencarron	§ ¶§	9, −, 9	504	9·401	—	9·942	59·0	47·6	53·3	−0·5	72	16th	40	10th	—	—	52·7	—	51·4	2·4	—	2·0	·334	—	·328	84	—	87
Mainland *p* Ft. Augustus	§ ¶§	9, −, 9	73	9·874	—	9·950	60·9	47·6	54·3	−0·6	74	15, 16	41	12th	—	—	53·9	—	53·6	1·7	—	1·5	·367	—	·369	88	—	90
Mainland *p* Ft. William	§ ¶	9, −, 9	38	9·924	—	9·961	62·8	48·3	55·6	+0·3	75	16th	39	13th	—	—	55·9	—	53·4	3·4	—	2·7	·356	—	·338	80	—	83
Mainland *p* Kingussie	§	9, −, 9	828	9·065	—	9·945	61·2	45·5	53·4	—	75	18th	39	4, 12	—	—	55·1	—	52·4	4·8	—	3·2	·308	—	·311	71	—	79
Mainland *p* Dunrobin	§	9, −, 9	16	9·922	—	9·936	59·3	47·4	53·4	+0·2	65	5, 16, 17	38	13th	55·3	—	53·4	—	52·7	3·0	—	2·7	·327	—	·326	80	—	82
1. SCOTLAND, E.																											
a Nairn	¶§	7, 1, 6	82	9·845	−·021	9·938	61·4	45·9	53·7	−1·0	72	16th	41	6, 12, 24	—	—	52·8	58·6	56·6	2·5	5·2	3·7	·333	·345	·355	83	70	77
p Gordon Castle	§ ¶§	9, −, 9	107	9·840	—	9·954	64·2	46·7	55·5	+0·6	78	4th	41	12th	—	—	57·1	—	52·8	3·4	—	2·2	·368	—	·341	79	—	85
Aberdeen	¶§	9, 3, 9	90	9·872	−·017	9·968	60·4	48·3	54·4	+0·5	68	28th	42	13th	—	50·1	54·6	57·9	52·9	4·5	5·6	3·5	·314	·331	·313	74	69	78
				9·866	−·019	9·966			54·9	+2·2																		
a Balmoral	§ ¶	9, 3, −	927	8·945	—	9·939	64·8	44·1	54·5	—	76	16th	36	4th	—	—	52·8	62·7	—	2·1	—	—	·343	—	—	86	—	—
p Braemar	§	9, −, 9	1114	8·780	—	9·959	61·6	43·9	52·8	+0·1	74	18th	34	12th	—	—	54·6	—	50·9	4·1	—	2·0	·317	—	·323	75	—	87
p Dundee	§	9, −, 9	164	9·810	—	9·983	63·5	47·6	55·6	0·0	73	29th	40	12th	—	—	56·7	—	52·5	2·7	—	2·3	·381	—	·333	83	—	84
p Crieff	§ ¶	9, −, 9	436	9·515	—	9·990	63·9	46·6	55·3	−0·9	76	16, 29	38	13th	—	—	56·3	—	53·0	4·4	—	2·7	·334	—	·330	73	—	82
a Leith	¶	7, −, 6	37	9·933	·000	9·977	62·3	48·8	55·6	−0·3	73	29th	42	13th	—	—	53·4	—	57·5	3·2	—	4·9	·322	—	·336	79	—	71
p West Linton	S ¶	9, 3, 9	805	9·130	—	9·993	61·4	44·5	53·0	−0·5	72	16th	35	2nd	—	—	54·9	58·1	50·3	3·3	4·5	1·5	·342	·356	·326	79	73	90
p Marchmont	§ ¶§	9, −, 9	500	9·468	—	0·004	63·1	46·7	54·9	+0·9	72	16th	38	12th	55·6	—	56·9	—	53·2	5·0	—	3·4	·326	—	·315	70	—	78
2. ENGLAND, N.E.																											
p Whitby		9, −, 9	158	9·850	—	0·014	66·5	48·5	57·5	+2·5	77	22nd	42	2nd	—	—	60·8	—	53·4	5·7	—	2·4	·368	—	·346	70	—	84
p Cockle Park	§	9, −, 9	331	9·655	—	0·010	62·2	46·6	54·4	—	68	2, 18	39	2nd	55·7	51·8	56·4	—	51·1	4·1	—	2·0	·346	—	·326	76	—	86
North *a* Shields	¶§	7, −, 6	117	9·889	+·035	0·016	62·6	48·2	55·4	+0·8	69	22nd	42	2, 12	—	—	53·1	—	58·0	2·7	—	4·9	·331	—	·345	81	—	72
North *p* Durham	¶§	9, −, 9	352	9·644	—	0·019	63·7	47·2	55·5	−0·2	73	18th	37	2nd	—	—	57·9	—	52·5	4·1	—	2·2	·366	—	·341	76	—	86
North *p* Rounton	¶	9, −, 9	245	9·749	—	0·008	64·9	47·7	56·3	+1·6	78	16th	39	2, 12	58·1	—	57·6	—	53·4	4·8	—	2·8	·341	—	·332	72	—	82
North *p* Scarborough	¶§	9, −, 9	127	9·904	—	0·027	62·6	50·0	56·3	+0·7	70	2nd	45	1, 12	—	53·6*	57·7	—	55·2	4·0	—	3·4	·365	—	·344	76	—	79
North *p* York	¶§	9, −, 9	53	9·996	—	0·047	66·9	50·1	58·5	+1·0	79	17th	43	2nd	57·1	53·2	59·4	—	55·6	4·9	—	3·3	·363	—	·352	72	—	79
South *a* Spurn Head	¶	7, 1, 6	28	0·003	+·052	0·037	62·0	50·2	56·1	+0·1	69	2nd	46	1, 9	—	—	55·1	60·1	57·8	2·3	4·4	3·3	·369	·386	·383	85	75	80
South *a* Lincoln		9, −, −	42	0·021	—	0·057	68·1	49·9	59·0	+0·1	81	17th	44	9th	59·9	54·3	60·1	—	—	5·0	—	—	·375	—	—	72	—	—
South *a* Skegness	§	9, −, −	16	0·036	—	0·045	63·7	48·0	55·9	—	70	3, 18	41	1, 9	—	—	58·1	—	—	3·9	—	—	·371	—	—	76	—	—
South *p* Hull		9, −, 9	12	0·048	—	0·055	66·1	49·1	57·6	+0·7	77	18th	41	21st	58·1	52·1	59·4	—	56·0	4·6	—	3·1	·371	—	·363	73	—	80
3. ENGLAND, E.																											
North *p* Lowestoft		9, 3, 9	77	9·999	—	0·081	62·7	50·5	56·6	+0·2	69	17,18,19	45	8, 9	60·4	56·3	59·1	60·4	55·2	3·7	4·5	1·8	·392	·395	·382	78	75	87
North *p* Cromer	¶§	9, −, 9	139	9·918	—	0·063	65·3	49·8	57·6	—	77	17th	43	8th	—	—	57·9	—	54·9	2·9	—	1·5	·394	—	·388	82	—	91
North *p* Lit. Massingham		9, 3, 9	280	—	—	—	68·0	48·2	58·1	+0·3	84	16th	42	9, 16	—	—	59·3	64·2	54·3	4·4	7·1	2·4	·374	·377	·354	74	62	83
North *a* Yarmouth	¶	7, 1, 9	27	0·048	+·088	0·075	63·3	51·2	57·3	+0·7	75	18th	44	9th	61·2	56·8	55·4	60·5	56·5	2·5	4·3	2·6	·368	·395	·381	84	75	83
North *p* Geldeston	¶§	9, −, 9	47	0·034	—	0·079	66·1	48·0	57·1	−0·2	78	17, 18	38	14th	—	—	59·9	—	55·1	4·9	—	2·5	·370	—	·364	71	—	84
South *p* Cambridge	¶§	9, −, 9	43	0·030	—	0·071	68·8	48·8	58·8	0·0	84	17th	39	1st	60·6	56·6	60·3	—	56·7	5·2	—	3·4	·373	—	·365	71	—	79
South *a* Clacton	¶§	7, 1, 9	54	0·025	+·083	0·082	65·0	52·0	58·5	−0·4	73	17th	45	9th	59·6	57·0	57·0	62·2	58·0	3·1	5·3	3·5	·374	·394	·380	80	71	79
South *p* Woburn		9, −, 9	294	9·795	—	0·109	66·7	47·5	57·1	—	81	16th	38	1st	—	—	59·6	—	56·0	4·5	—	3·2	·379	—	·361	74	—	80
South *p* Bennington		9, 3, 9	411	—	—	—	68·4	48·4	58·4	+0·6	82	17th	41	1st	60·6	56·8	59·7	65·2	55·3	5·2	8·5	3·4	·365	·362	·339	71	58	79
South *p* Berkhamsted		9, −, 9	397	9·683	—	0·106	68·0	47·8	57·9	+0·2	83	16th	39	1st	60·3	—	59·9	—	55·4	5·7	—	3·4	·355	—	·349	69	—	79
4. MIDLAND COUNTIES.																											
a Garforth		9, −, 9	198	—	—	—	66·2	46·4	56·3	—	78	17th	34	2nd	55·2	51·0	58·8	—	54·8	5·1	—	3·2	·353	—	·348	71	—	80
p Huddersfield		9, 3, 9	411	9·604	—	0·046	64·3	48·8	56·6	—	75	16th	42	2nd	57·7	51·3	56·9	61·7	54·6	4·5	6·6	3·1	·343	·360	·348	73	65	81
p Sheffield	§	9, −, 9	450	9·568	—	0·046	64·8	49·7	57·3	—	76	16th	43	1st	57·0	51·8	58·1	—	55·8	5·4	—	3·6	·337	—	·349	70	—	78
a Worksop		9, −, 9	67	9·988	+·045	0·055	68·6	48·1	58·4	+0·8	80	16th	40	1st	57·8	54·2	60·1	65·6	—	5·6	8·5	—	·356	·363	—	69	57	—
East *p* Buxton		9, 3, 9	997	8·997	—	0·066	61·8	45·9	53·9	+0·7	74	16th	40	1st	56·2	50·2	55·2	59·7	52·8	3·7	5·4	3·4	·335	·355	·311	77	69	77
East *p* Belvoir Castle		9, −, 9	276	9·784	—	0·078	66·7	48·6	57·7	−0·2	80	16th	42	9th	60·0	53·3	58·5	—	55·6	4·8	—	3·5	·354	—	·347	72	—	78
East *a* Coventry		9, −, −	309	9·747	—	0·072	67·9	50·0	59·0	+0·2	80	16th	42	1st	59·2	53·7	60·7	—	—	5·8	—	—	·360	—	—	68	—	—
East *a* Thrapston		9, 3, −	251	—	—	—	67·7	47·6	57·7	—	82	16th	39	1st	—	—	60·0	65·4	—	4·8	8·1	—	·374	·370	—	72	59	—
East *a* Nottingham	¶§	7, 1, 9	85	9·966	+·051	0·057	67·7	48·2	58·0	−0·3	82	16th	41	1st	59·9	55·1	54·6	64·7	56·7	2·6	7·7	3·7	·353	·369	·355	83	60	77
East *p* Birmingham	¶§	9, −, 9	542	9·504	—	0·082	65·2	49·6	57·4	0·0	78	16th	43	1, 9	53·9	50·1	55·9	—	57·7	4·3	—	5·4	·332	—	·336	75	—	70
East *a* Oxford	¶§	8, −, 8	212	—	—	—	67·9	50·0	59·0	+0·4	83	16th	42	1st	—	—	—	—	—	—	—	—	—	—	—	—	—	—
West *a* Bath	¶§	7, −, 6	84	0·015	+·094	0·109	67·6	49·0	58·3	−1·4	82	16th	40	1st	59·5	55·9	56·6	—	63·6	—	—	—	—	—	—	—	—	—
West *p* Shrewsbury	¶	9, −, 9	212	9·848	—	0·073	67·1	48·2	57·7	−0·8	78	16th	38	1st	—	—	58·8	—	55·4	5·0	—	3·1	·354	—	·356	71	—	80
West *p* Wistanstow		9, −, 9	484	9·549	—	0·066	66·6	47·9	57·3	—	78	16th	36	1, 2	—	—	59·1	—	53·7	4·4	—	1·8	·371	—	·362	74	—	88
West *p* Bromyard		9, −, 9	400	9·649	—	0·074	66·9	48·7	57·8	—	78	16, 29	36	1st	59·9	54·1	60·2	—	55·8	5·0	—	3·1	·376	—	·363	72	—	81
West *p* Cheltenham		9, −, 9	206	9·882	—	0·098	67·5	50·5	59·0	+0·8	81	16th	44	9th	—	—	60·3	—	57·4	5·1	—	3·6	·371	—	·368	71	—	78
5. ENGLAND, S.E.																											
p Reading		9, −, 9	264	9·813	—	0·092	68·0	48·5	58·3	—	82	16th	41	1st	—	—	59·2	—	57·2	2·7	—	2·1	·420	—	·406	84	—	87
p Salisbury(Wilton)	¶	9, −, 9	186	—	—	—	67·4	47·2	57·3	−1·7	83	16, 29	39	9th	61·7	—	60·2	—	54·8	4·1	—	2·5	·396	—	·359	76	—	84
a Grayshott		9, 2, −	659	9·403	—	0·108	65·7	48·2	57·0	—	80	16th	40	9th	58·8	—	58·4	63·8	—	4·6	7·1	—	·357	·371	—	73	63	—
a Midhurst		9, 2, −	493	9·576	—	0·105	65·1	—	—	—	80	16th	—	—	—	—	58·8	63·0	—	3·7	4·0	—	·390	·453	—	78	78	—
a Brighton		9, −, −	48	—	—	—	64·4	52·7	58·6	−0·5	80	29th	40	9th	—	57·4	—	—	—	—	—	—	—	—	—	—	—	—
a Portsmouth		9, −, −	18	0·106	—	0·120	65·7	51·9	58·8	−0·2	81	29th	47	1, 9	61·0	57·7	59·8	—	—	4·9	—	—	·369	—	—	72	—	—
p Eastbourne	§	9, −, 9	36	0·088	—	0·121	63·7	51·4	57·6	−0·8	78	29th	46	1, 9	59·9	56·8	59·6	—	56·8	3·9	—	2·8	·394	—	·383	77	—	83
a Dover		7, −, 6	234	9·849	+·096	0·104	63·9	49·7	56·8	—	78	16th	42	9th	57·2	52·9	57·3	—	58·5	2·5	—	2·8	·396	—	·406	84	—	82
a Dungeness	¶	7, 1, 6	21	0·064	+·100	0·092	63·6	51·2	57·4	−0·3	71	16th	41	9th	—	—	57·3	60·7	58·9	3·3	4·2	3·2	·374	·401	·374	79	76	80
p Hastings	¶	9, −, 9	174	9·935	—	0·117	64·6	51·3	58·0	+0·2	79	16th	44	9th	61·4	57·0	60·1	—	55·8	4·4	—	2·5	·386	—	·375	75	—	84
p Southampton	¶§	9, −, 9	84	0·041	—	0·126	66·3	51·0	58·7	−1·0	82	29th	44	9th	—	—	59·5	—	57·5	4·7	—	3·9	·374	—	·368	74	—	77
a Ventnor	¶§	9, 3, −	80	—	—	—	63·9	51·8	57·9	−0·7	74	16, 29	47	1, 9	—	—	59·3	61·4	—	4·0	4·9	—	·385	·393	—	76	73	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea."

*At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of JUNE, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER, No. of Days of										WIND.									STATIONS.
				Mean Amount.					Most in a day.												No. of Observations reduced to a total of 90 for the month.									
																					Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
3·60	—	21	—	8·9	7·7	7·3	2·59	—	0·41	9th	20	14	0	—	0	1	0	18	5	—	2	23	2	0	5	8	11	8	9	27	20	Castlebay.
5·08	−0·05	28	0	7·8	—	7·6	2·69	+0·84	0·76	9th	13	13	0	0	0	1	0	14	8	—	0	32	8	9	3	9	15	13	5	13	15	Deerness.
—	—	—	—	7·8	6·9	7·9	1·66	—	0·45	8th	12	*10*	0	—	—	0	0	16	8	—	0	29	2	12	9	9	18	17	7	8	8	Lerwick.
4·20	−1·97	24	−11	8·3	7·4	8·8	3·58	+1·14	0·61	7th	19	15	0	—	0	1	0	17	3	—	2	37	1	3	17	4	2	11	25	11	16	Stornoway.
—	—	—	—	7·5	7·1	7·7	2·04	+0·23	0·37	4th	16	12	0	—	0	0	0	10	**9**	—	1	36	4	5	10	7	5	14	14	8	23	Wick.
4·99	−0·38	28	− 3	7·5	—	6·7	3·14	+1·06	0·59	18th	15	13	0	0	0	1	0	*9*	2	—	0	20	33	5	1	5	3	9	10	12	12	Strathpeffer.
—	—	—	—	8·5	—	8·1	8·68	+4·64	1·63	8th	24	**18**	0	0	0	1	1	**21**	4	—	2	39	0	9	0	20	0	0	0	61	0	Glencarron.
3·90	−0·60	22	− 4	7·2	—	6·8	3·72	+1·73	0·99	9th	18	13	0	0	1	3	1	11	0	—	2	24	4	4	24	3	2	3	48	2	0	F. Augustus.
—	—	—	—	8·1	—	7·9	6·73	+2·93	1·82	9th	19	13	1	0	0	0	0	18	4	—	0	15	31	0	3	2	2	0	45	6	1	Ft. William.
—	—	—	—	8·4	—	7·1	2·02	—	0·48	7th	19	14	0	0	0	1	0	16	0	—	2	24	8	1	1	10	2	3	26	29	10	Kingussie.
—	—	—	—	6·0	—	8·8	3·20	+1·12	0·45	18th	16	14	0	0	0	3	2	12	0	—	1	15	33	2	2	22	0	0	6	24	1	Dunrobin.
5·47	—	31	—	7·0	6·3	7·0	2·86	+1·00	0·80	18th	18	13	0	—	1	2	1	6	0	—	3	10	25	4	12	8	1	2	13	14	11	Nairn.
6·37	—	36	—	7·5	—	7·0	2·37	+0·20	0·69	6th	15	12	0	0	0	3	0	14	0	—	2	16	0	8	6	1	9	11	29	2	24	Gordon C.
6·44	+0·21	37	+ 1	6·4	6·6	6·2	1·36	−0·49	0·47	4th	12	7	0	0	0	*1*	2	12	7	—	0	19	16	6	2	5	10	20	13	6	12	Aberdeen.
—	—	—	—	6·0	—	—	1·79	—	0·41	19th	13	11	0	0	0	*1*	**6**	11	0	0	3	12	0	5	3	3	0	0	15	39	24	Balmoral.
—	—	—	—	6·3	—	—	1·61	−0·77	0·25	4th	14	13	0	0	0	2	0	8	0	3	2	12	0	3	9	6	0	21	39	6	6	Braemar.
—	—	—	—	7·0	—	7·8	1·27	−0·81	0·31	4th	12	8	0	0	0	3	0	12	0	—	3	17	0	0	8	10	19	5	25	9	14	Dundee.
—	—	—	—	6·7	—	6·7	2·35	−0·55	0·40	23rd	16	11	0	0	0	*1*	0	11	0	—	4	27	0	3	2	15	0	7	9	54	0	Crieff.
—	—	—	—	6·1	—	6·7	1·14	−0·78	0·20	5th	13	12	0	—	0	2	0	*5*	1	—	0	20	16	5	9	6	3	5	12	27	7	Leith.
4·07	—	24	—	7·7	7·9	6·3	2·70	—	0·67	5th	18	**14**	0	0	0	3	0	**15**	0	2	0	2	27	0	5	2	5	9	11	24	7	West Linton.
6·43	+0·26	38	+ 2	5·8	—	6·2	2·80	+0·36	0·96	19th	10	9	0	0	0	4	3	10	0	0	**14**	2	0	3	9	23	5	1	15	30	4	Marchmont.
6·84	—	40	—	6·5	—	5·8	1·42	−0·54	0·47	24th	13	10	0	0	0	3	2	10	0	—	0	17	38	6	1	1	4	5	14	15	6	Whitby.
6·66	—	39	—	6·6	—	5·1	1·62	−0·64	0·39	18th	14	10	0	0	1	**4**	0	4	0	0	4	21	3	3	4	6	11	4	3	38	18	Cockle Park.
—	—	—	—	7·8	—	7·5	1·38	−0·46	0·35	22nd	15	**12**	0	—	0	2	0	**17**	1	0	0	15	3	9	3	10	5	12	25	18	5	Shields.
5·94	+0·24	35	+ 1	6·8	—	7·7	1·00	−0·96	0·27	23rd	13	9	0	0	0	2	1	13	0	0	1	18	24	1	3	4	0	15	12	23	8	Durham.
—	—	—	—	7·0	—	7·8	1·00	−1·19	0·18	24th	14	9	0	0	0	**4**	2	14	2	0	1	14	15	9	4	2	9	9	14	12	16	Rounton.
7·13	—	42	—	6·2	—	6·2	0·91	−1·05	0·33	24th	8	4	0	0	0	0	0	*3*	0	—	1	35	0	4	8	1	14	0	26	4	33	Scarborough
5·91	+0·04	35	0	6·3	—	6·0	1·48	−0·63	0·39	17th	16	7	0	0	0	2	4	9	2	—	0	3	3	1	3	9	7	17	9	29	12	York.
7·24	—	43	—	5·8	6·2	6·0	0·57	−0·94	0·13	8th	13	6	0	—	0	3	0	6	**3**	—	2	51	0	9	4	13	11	11	9	25	8	Spurn Head.
—	—	—	—	6·3	—	4·9	0·66	−1·41	0·13	24th	13	*5*	—	—	—	—	**5**	9	—	—	0	18	4	0	2	18	6	3	15	31	11	Lincoln.
7·89	—	47	—	6·9	—	—	0·92	—	0·18	8, 17	12	9	0	0	0	1	3	12	0	—	0	57	0	12	6	6	3	18	30	9	6	Skegness.
4·06	—	24	—	5·8	—	6·2	0·84	−1·14	0·25	24th	11	*5*	0	0	0	1	2	7	0	0	1	5	4	5	10	3	12	9	22	20	5	Hull.
6·87	—	42	—	6·1	5·1	4·6	0·93	−0·83	0·42	9th	10	6	0	0	0	2	**4**	7	0	0	1	35	2	8	12	9	6	15	13	18	7	Lowestoft.
6·78	—	41	—	7·9	—	6·7	0·68	—	0·15	24th	12	6	0	0	0	0	0	11	0	—	0	41	1	7	1	9	14	12	14	21	11	Cromer.
6·39	−0·15	39	− 1	6·9	6·9	6·1	0·85	−1·40	0·17	8th	12	7	0	0	0	**3**	1	8	0	—	2	32	0	6	10	6	13	6	18	21	10	L. Mas'gh'm.
6·89	—	42	—	5·9	5·5	6·1	0·90	−1·00	0·16	8, 9	9	**8**	0	0	—	0	0	2	7	1	0	8	3	8	5	12	8	11	10	24	9	Yarmouth.
6·41	−0·56	39	− 3	7·4	—	5·3	0·81	−1·03	0·28	9th	11	*5*	0	0	0	1	**4**	**12**	0	—	0	2	3	6	3	15	9	7	18	21	8	Geldeston.
6·87	+0·24	42	+ 2	7·7	—	5·9	1·78	−0·46	1·18	17th	7	6	0	0	0	2	2	**12**	0	0	0	3	8	12	0	1	9	18	25	14	3	Cambridge.
7·11	—	44	—	6·4	7·0	5·8	0·86	—	0·28	25th	9	6	0	—	0	**3**	1	*6*	0	0	0	26	1	5	6	12	9	8	18	23	8	Clacton.
6·16	—	38	—	7·4	—	6·2	1·17	—	0·62	17th	8	8	0	0	0	1	2	11	0	—	0	23	7	3	8	7	6	5	19	21	14	Woburn.
6·56	—	40	—	7·5	7·0	5·8	1·52	−0·51	0·87	17th	11	7	0	0	0	1	2	10	0	0	0	3	8	0	0	8	9	3	22	36	4	Bennington.
6·76	—	41	—	6·4	—	5·7	0·72	−1·53	0·23	8th	10	4	0	0	1	1	2	8	0	0	0	2	28	2	0	3	3	6	21	25	2	Berkh'mst'd.
5·96	—	36	—	6·5	—	6·7	1·00	—	0·36	17th	15	8	0	0	0	1	2	11	0	4	0	6	1	3	8	15	4	20	8	24	7	Garforth.
5·36	—	32	—	6·5	6·5	5·9	1·89	—	0·53	17th	12	8	0	0	0	1	1	8	0	0	1	22	11	1	5	8	3	6	11	31	14	Huddersf'ld.
6·74	—	40	—	6·5	—	5·9	0·82	−1·72	0·28	7th	10	6	0	0	0	1	0	*5*	0	0	0	20	12	3	3	1	7	17	17	23	7	Sheffield.
5·86	+0·36	35	+ 2	7·2	7·2	6·2	0·60	−1·47	0·20	5th	13	*4*	0	0	0	1	2	**12**	0	0	0	11	10	6	4	4	11	6	22	17	10	Worksop.
5·68	—	34	—	7·1	5·4	5·4	3·24	−0·18	0·95	9th	20	**14**	0	0	0	0	2	7	0	0	0	2	8	0	0	3	9	4	19	24	23	Buxton.
5·90	—	36	—	6·9	—	5·3	1·52	−0·48	0·89	17th	10	5	0	0	1	2	1	8	5	0	0	17	30	3	1	3	3	14	15	14	7	Belvoir C.
6·78	—	41	—	6·4	—	—	0·81	−1·34	0·25	9th	12	6	0	0	0	**6**	1	11	0	0	0	33	0	0	3	9	3	18	24	18	15	Coventry.
6·66	—	40	—	7·1	7·2	—	0·41	—	0·12	8th	7	*4*	0	0	0	2	1	11	0	0	—	—	1	1	2	18	3	8	12	15	30	Thrapston.
6·14	—	37	—	6·7	7·1	5·9	0·84	−1·33	0·38	9th	11	6	0	—	0	1	1	10	0	0	2	28	0	1	3	15	10	6	17	32	6	Nottingham.
5·75	—	35	—	6·6	—	5·2	1·42	−1·05	0·37	9th	9	7	0	0	0	1	4	7	0	1	0	5	22	3	0	2	4	14	16	21	8	Birmingh'm.
6·80	+0·37	42	+ 3	—	—	—	0·53	−1·75	0·14	8th	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Oxford.
7·31	—	45	—	7·2	—	5·4	0·66	−1·66	0·20	5th	9	6	—	—	—	—	2	10	—	—	—	24	7	6	2	4	6	11	6	45	3	Bath.
—	—	—	—	7·0	—	6·9	0·83	—	0·21	8th	6	6	0	0	0	0	1	9	0	0	0	9	4	3	5	0	1	12	27	14	24	Shrewsbury.
—	—	—	—	7·4	—	6·7	1·27	—	0·38	5th	7	7	0	0	0	0	0	14	0	0	0	2	51	2	1	3	2	1	21	5	4	Wistanstow.
—	—	—	—	6·9	—	5·2	1·04	—	0·31	5th	10	5	0	0	0	0	4	6	0	0	0	9	17	1	1	1	4	23	18	17	8	Bromyard.
6·66	—	41	—	7·5	—	5·6	0·92	−1·32	0·40	19th	10	6	0	0	0	0	3	13	0	0	2	24	10	0	0	1	2	6	50	9	12	Cheltenham.
8·02	—	49	—	6·4	—	9·0	0·64	−1·28	0·25	5th	7	6	0	0	0	0	0	**16**	0	—	0	9	24	6	3	0	1	6	21	14	15	Reading.
—	—	—	—	6·4	—	4·3	0·47	−1·80	0·13	6th	8	5	0	0	0	1	1	5	0	0	0	24	0	1	4	1	12	8	24	23	17	Salisbury.
7·06	—	43	—	6·1	6·6	—	0·47	—	0·14	5th	9	4	0	0	0	1	2	10	0	0	0	21	0	8	3	7	8	9	13	24	18	Grayshott.
6·44	—	40	—	5·1	5·5	—	0·65	—	0·19	1st	9	4	0	0	0	0	4	7	0	—	0	21	3	0	6	3	10	2	34	8	24	Midhurst.
7·24	−0·19	45	− 1	—	—	—	0·64	−1·32	0·19	5th	10	5	—	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—	—	Brighton.
7·29	—	45	—	5·6	—	—	0·43	−1·48	0·08	5, 6	8	**7**	0	0	0	0	7	9	0	0	0	63	0	6	0	0	18	3	6	21	36	Portsmouth.
7·75	+0·35	48	+ 2	5·7	—	4·4	0·68	−1·28	0·35	5th	8	*3*	0	0	0	0	**8**	8	0	—	0	0	3	6	12	5	6	1	21	18	18	Eastbourne.
7·12	—	44	—	5·7	—	5·4	1·07	—	0·49	20th	8	5	0	—	1	3	4	8	0	—	0	36	2	4	15	4	4	8	31	4	18	Dover.
—	—	—	—	6·2	6·6	6·3	0·65	−0·88	0·40	25th	5	*3*	0	—	0	2	*1*	*4*	0	—	2	42	2	5	6	10	4	6	41	10	6	Dungeness.
6·99	−0·64	43	− 4	5·6	—	4·4	1·04	−0·85	0·77	20th	7	5	0	0	0	1	5	*4*	0	0	1	23	0	5	6	10	6	3	30	23	7	Hastings.
6·86	−0·21	42	− 1	6·4	—	3·6	0·71	−1·28	0·23	19th	11	6	0	0	0	2	5	5	1	0	0	5	0	0	3	1	15	1	38	3	29	S'mpton.
6·94	+0·41	43	+ 3	5·5	5·7	—	0·39	−1·51	0·16	16th	8	*3*	0	0	0	1	6	10	0	—	0	29	0	4	1	11	9	3	35	21	6	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	0·032	—	0·086	68·7	51·6	60·2	+0·9	83	17th	44	1st	—	57·3	61·7	—	58·3	6·1	—	4·2	·364	—	·371	68	—	75
p Hampstead ...	9, –, 9	453	9·633	—	0·113	67·2	50·2	58·7	—	82	17th	42	9th	—	—	59·6	—	56·8	5·3	—	4·2	·356	—	·345	70	—	75
a Camden Square ...	9, –, 9	123	9·975	—	0·100	72·3	51·2	61·8	+0·9	85	16, 17	44	1, 9	61·4	55·2	62·4	—	58·6	6·3	—	4·5	·371	—	·362	67	—	74
a Westminster ...	9, 3, –	—	—	—	—	68·5	52·1	60·3	+0·4	82	17th	45	9th	—	—	61·3	66·3	—	4·3	7·1	—	·407	·409	—	75	64	—
a South Kensington*	9, 3, 6	70	0·017	—	0·095	68·5	53·7	61·1	—	82	16, 17	48	9th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·920	—	0·091	71·4	49·2	60·3	+1·1	87	17th	42	1st	—	58·1	61·4	67·4	56·7	5·8	9·1	3·8	·369	·376	·353	68	56	77
			9·918		0·090																						
Kew ... ¶§	9, 3, 9	34	0·063	+·087	0·098	68·6	51·3	60·0	+0·8	83	16th	44	1st	59·6	55·2	60·6	66·8	58·8	5·5	8·7	4·6	·370	·381	·366	70	58	73
			0·059	+·084	0·095			59·7	+0·9																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	—	—	—	60·2	44·4	52·3	—	73	16th	33	2nd	—	—	53·9	58·3	51·2	3·5	5·5	2·6	·328	·340	·315	78	70	83
p Poltalloch ... § ¶	9, –, 9	135	9·841	—	9·985	60·7	49·1	54·9	–1·1	73	16th	42	13th	—	—	54·9	—	53·4	2·5	—	1·8	·361	—	·358	84	—	88
a Glasgow	7, 1, 9	355	9·611	—	9·995	60·6	48·0	54·3	–1·5	71	16th	42	4th	—	—	51·4	57·9	52·9	1·8	4·7	2·3	·333	·348	·339	88	72	85
p Rothesay ... § ¶	9, –, 9	76	9·912	—	9·991	62·8	48·5	55·7	–0·2	76	16th	43	12, 13	—	51·9	55·7	—	52·6	3·7	—	2·0	·343	—	·343	77	—	86
a Colmonell ... § ¶	9, 3, –	150	—	—	—	61·6	48·9	55·3	–0·1	73	21st	43	4, 13	—	—	55·3	58·3	—	2·1	3·1	—	·378	·395	—	86	80	—
p Dumfries ... § ¶	9, –, 9	155	9·874	—	0·038	62·2	48·9	55·6	–1·5	77	16th	41	4th	57·5	54·0	56·2	—	53·5	4·0	—	2·6	·342	—	·339	75	—	82
p Cally ... § ¶	9, –, 9	120	—	—	—	62·9	47·8	55·4	–0·2	75	16th	40	4th	—	—	56·1	—	53·4	3·7	—	2·9	·349	—	·330	76	—	81
p Douglas ... ¶§	9, –, 9	284	9·738	—	0·042	59·5	49·1	54·3	–1·1	71	16th	43	12th	—	—	53·8	—	52·1	2·3	—	1·8	·356	—	·346	86	—	89
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	0·026	—	0·070	62·6	50·3	56·5	–0·4	76	16th	44	1, 2	60·4	56·7	57·3	60·2	54·9	3·9	5·2	2·4	·363	·375	·369	77	71	85
p Manchester (City)	9, –, 9	195	9·850	—	0·054	64·8	51·7	58·3	—	80	16th	46	1, 9, 12	58·5	54·9	57·7	—	57·2	4·6	—	3·8	·353	—	·365	74	—	78
p „ (WhitworthPk.)	9, –, 9	127	9·910	—	0·041	64·8	50·9	57·9	—	78	16th	44	1, 2	—	—	58·3	63·8	56·6	4·6	—	3·1	·356	—	·370	75	—	82
p Darwen	9, –, 9	730	9·276	—	0·057	61·7	48·0	54·9	—	75	16th	42	1st	58·1	52·3	55·7	—	52·8	3·5	—	1·8	·350	—	·354	80	—	88
p Egremont	9, –, 9	354	9·661	—	0·038	60·7	48·7	54·7	—	74	16th	44	2, 8	57·1	51·8	55·4	—	52·8	2·7	—	1·8	·366	—	·353	83	—	88
p Aspatria ... ¶§	9, –, 9	254	9·750	—	0·019	62·3	48·2	55·3	–0·4	75	16th	41	2nd	56·3	51·0	56·0	—	52·8	3·0	—	1·9	·367	—	·351	81	—	87
p Newton Rigg ¶§	9, –, 9	559	9·423	—	0·022	62·8	47·0	54·9	–0·2	75	17th	36	2nd	56·5	51·3	55·3	—	53·5	3·1	—	2·2	·351	—	·348	80	—	85
p Stonyhurst ¶§	–, –, 9	363	—	—	—	61·8	49·8	55·8	–0·8	75	10th	42	2nd	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·976	—	0·050	62·3	50·3	56·3	–0·5	75	17th	42	2nd	56·9	51·7	58·0	—	54·2	3·8	—	2·0	·376	—	·367	78	—	87
p Liverpool (Bid.) ¶	9, –, 9	202	9·845	—	0·058	62·1	50·4	56·3	–1·3	77	16th	45	1, 10	—	—	56·5	—	54·7	3·9	—	2·8	·348	—	·351	76	—	81
p Llandudno... ¶§	9, –, 9	32	9·997	—	0·025	63·2	50·3	56·8	–0·8	74	15th	44	2nd	—	—	57·4	—	55·8	3·8	—	3·4	·363	—	·352	77	—	78
a Holyhead ... ¶	7, 1, 9	48	0·043	+·060	0·061	60·3	50·6	55·5	–0·9	72	16th	46	9th	—	—	53·2	58·1	53·6	1·3	3·0	1·4	·368	·395	·372	91	81	90
p Bettws-y-Coed ¶§	9, –, 9	125	9·914	—	0·043	65·4	48·7	57·1	–1·0	80	16th	40	1, 2	55·7	52·0	59·3	—	59·7	5·2	—	5·7	·354	—	·347	70	—	67
p Dwyran	9, –, 9	30	0·050	—	0·077	61·0	50·2	55·6	—	71	16th	43	4, 12	59·3	54·7	56·6	—	54·4	1·9	—	1·0	·403	—	·395	87	—	94
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·457	—	0·081	63·9	46·6	55·3	–1·5	78	16th	34	2nd	56·1	51·8	56·8	—	—	2·9	—	—	·377	—	—	81	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·932	+·092	0·096	59·0	51·0	55·0	–1·1	71	16th	48	4, 9, 12	—	—	53·4	56·6	53·6	1·1	2·4	0·8	·377	·389	·389	92	84	95
a Portland Bill ¶	7, 1, 9	23	0·087	+·103	0·124	59·7	52·9	56·3	–1·8	66	29th	49	1st	—	—	55·6	58·3	55·3	2·5	3·2	1·9	·372	·392	·383	84	80	87
p Plymouth ... ¶§	9, 3, 9	116	0·004	—	0·126	63·2	50·6	56·9	–1·9	77	29th	43	2nd	59·9	—	58·9	61·2	55·2	3·0	4·5	1·9	·406	·400	·381	81	75	88
Falmouth ... ¶§	9, 3, 9	183	9·958	+·131	0·153	61·3	50·1	55·7	–1·9	69	29, 30	46	2nd	—	—	57·5	59·6	53·9	3·7	4·9	2·0	·369	·369	·363	78	72	87
			9·951	+·131	0·150			55·7	–1·5																		
p Cardiff	9, –, 9	216	9·875	—	0·104	65·2	49·1	57·2	–1·6	78	16th	42	1, 2	59·7	55·1	57·2	—	54·9	3·8	—	2·9	·359	—	·350	76	—	81
a Newquay ... §	7, –, 6	161	9·984	+·118	0·126	60·2	50·3	55·3	–1·9	71	16th	42	2nd	58·6	—	55·6	—	56·7	2·2	—	2·9	·380	—	·376	85	—	82
p Woolacombe ...	9, –, 9	120	0·000	—	0·125	61·9	51·7	56·8	–2·9	78	16th	45	1st	—	—	57·9	—	55·5	3·7	—	2·8	·361	—	·364	75	—	82
a Princetown ...	9, 3, –	1360	8·634	—	—	58·5	46·5	52·5	—	72	16,29,30	41	1st	—	—	53·3	56·3	—	2·9	4·4	—	·328	·334	—	80	73	—
p Sheepstor	9, 3, 9	730	9·342	—	0·126	61·1	44·7	52·9	—	75	16, 30	35	2nd	—	—	56·6	59·5	50·5	2·8	4·7	1·0	·380	·375	·345	83	74	94
p Teignmouth ...	9, 3, 9	20	0·109	—	0·127	65·0	50·8	57·9	—	78	29th	44	1, 2	—	—	58·7	62·6	57·5	4·1	6·9	4·2	·376	·365	·358	76	65	75
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·708	+·103	9·978	57·7	48·8	53·3	–1·5	70	17th	44	13th	—	—	51·5	55·5	54·3	1·3	1·9	1·4	·346	·387	·382	90	88	90
West. *a* Blacksod Point ¶	7, 1, 9	41	9·976	+·040	0·021	58·8	49·1	54·0	–2·1	71	17th	42	12th	—	—	53·5	56·6	52·9	1·7	2·9	1·2	·362	·375	·367	89	81	92
West. *p* Markree Castle ¶§	9, –, 9	127	9·894	—	0·026	61·2	46·6	53·9	–1·5	75	17th	35	12th	56·8	52·0	55·5	—	52·5	3·6	—	1·6	·343	—	·351	77	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	9·978	+·029	0·021	59·0	48·5	53·8	–1·6	66	28th	41	12th	—	—	51·1	56·2	52·2	1·4	3·0	1·5	·340	·367	·350	90	81	90
East. *p* Armagh ... ¶§	9, –, 9	202	9·801	—	0·015	62·2	47·3	54·8	–1·4	73	16, 30	39	12th	57·0	53·0	56·5	—	52·9	4·0	—	2·1	·350	—	·349	76	—	87
East. *a* Belfast	9, –, 9	55	—	—	—	62·1	48·1	55·1	—	70	17th	38	12th	—	—	57·0	—	54·1	4·3	—	3·1	·347	—	·336	75	—	80
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	61·7	46·1	53·9	—	74	16th	33	12th	55·4	51·9	56·1	—	53·2	3·4	—	1·4	·357	—	·366	78	—	91
10. IRELAND. S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	63·8	49·2	56·5	—	76	17th	42	12th	57·7	54·0	58·7	—	55·7	4·6	—	2·5	·365	—	·375	74	—	84
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·882	—	0·050	63·4	46·4	54·9	–0·6	75	17th	37	4th	—	—	58·1	—	52·8	4·4	—	1·6	·362	—	·358	74	—	89
East. *p* „ (City)... ¶	9, –, 9	53	9·989	—	0·043	63·7	50·5	57·1	–0·8	75	17th	43	12th	—	—	57·4	—	55·7	4·8	—	2·9	·342	—	·365	72	—	82
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·851	+·036	0·045	62·3	47·1	54·7	–2·2	75	16, 30	39	1st	57·0	53·6	52·4	60·0	59·1	1·8	4·7	4·2	·346	·377	·376	88	73	75
West. Valencia ... ¶§	9, 3, 9	45	0·051	+·097	0·097	60·0	50·1	55·1	–1·8	69	29th	40	1st	—	—	55·9	58·2	54·3	2·4	3·5	1·8	·383	·386	·375	85	80	88
			0·042	+·089	0·092			54·9	–2·0																		
West. *a* Roche's Point ¶	7, 1, 6	42	0·050	+·095	0·101	59·8	49·1	54·5	–3·1	71	16th	43	3rd	—	—	52·7	57·4	56·8	1·1	2·4	2·3	·367	·400	·394	92	85	85
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	0·006	—	0·057	62·1	47·3	54·7	—	75	16, 29	37	1st	59·1	—	56·1	59·5	53·2	2·7	4·1	1·2	·374	·385	·371	82	75	92
11. ENGLISH CHANNEL.																											
a Scilly .. ¶§	7, 1, 9	152	9·969	+·123	0·134	60·6	50·5	55·6	–1·9	66	16, 17	48	6, 9	—	—	54·4	58·8	53·3	1·7	3·4	1·5	·376	·394	·365	89	79	90
a Jersey ... ¶§	7, 1, 9	36	0·134	+·139	0·172	63·9	52·1	58·0	–1·0	76	15th	44	1st	—	—	57·1	61·0	56·7	2·9	4·7	2·8	·382	·391	·378	81	74	82
p Guernsey (Brooklyn).	9, –, 9	311	9·828	—	0·161	62·5	51·0	56·8	–0·9	76	16th	48	1, 9, 25	60·4	56·8	57·3	—	53·7	3·0	—	1·5	·383	—	·373	82	—	90
a Gibraltar ...	7, 1, 9	53	0.029	—	0·085	79·2	63·4	71·3	—	90	25th	55	2, 3	—	—	66·5	75·6	68·3	3·8	8·9	4·3	·520	·538	·537	79	60	77

* At South Kensington the temperatures are taken in a screen 60 feet above the ground. The value 90 feet given in 1912 is the height above M.S.L.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of JUNE, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 90 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
6·94	—	43	—	7·3	—	5·5	0·45	—	0·16	20th	5	4	0	0	0	1	2	10	0	0	0	0	0	2	7	8	7	8	27	15	16	Tottenham.
7·25	—	44	—	7·3	—	5·5	0·41	—	0·14	6th	8	3	0	0	0	0	2	11	0	0	0	5	27	1	5	6	0	3	30	13	5	Hampstead.
6·66	—	41	—	5·7	—	—	0·58	−1·71	0·19	8th	7	6	0	0	0	0	8	12	0	0	—	—	9	15	6	0	0	6	15	21	18	Camden Sq.
—	—	—	—	—	—	—	0·46	−1·75	0·09	8, 19	8	6	0	0	0	0	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
6·17	—	38	—	6·5	—	6·1	0·33	—	0·09	6, 8	7	3	0	—	0	0	2	9	0	0	0	12	6	6	6	9	6	9	25	13	10	S.Kensingtn
6·81	+0·28	41	+ 1	7·1	6·8	4·6	0·73	−1·31	0·30	19th	8	5	0	0	0	0	3	9	1	1	0	8	10	8	4	5	8	3	18	23	11	Greenwich.
6·64	+0·11	41	+ 1	7·1	6·1	4·7	0·43	−1·79	0·17	20th	7	4	0	0	0	1	1	6	2	0	0	10	7	3	6	11	0	16	20	18	9	Kew.
4·20	—	25	—	7·9	8·1	7·4	2·97	—	0·97	9th	17	13	0	0	1	2	0	16	0	—	3	35	24	3	5	0	1	9	18	18	12	Eskdalemuir
—	—	—	—	8·4	—	7·6	3·22	0·00	0·80	9th	19	15	0	0	1	1	0	16	0	—	2	21	7	4	3	0	9	8	18	24	17	Poltalloch.
4·28	−1·22	25	− 7	7·1	8·1	7·1	3·34	+0·51	0·84	19th	19	15	0	0	1	4	0	13	0	0	2	24	7	1	3	13	4	8	21	27	6	Glasgow.
—	—	—	—	7·2	—	8·2	3·37	+0·13	0·66	2nd	19	14	0	0	0	1	2	17	3	—	3	24	17	3	0	10	3	4	11	20	22	Rothesay.
—	—	—	—	7·1	—	—	2·90	+0·33	0·57	9th	17	12	0	0	1	1	2	16	1	0	0	21	3	3	0	0	3	18	6	45	12	Colmonell.
5·40	—	32	—	6·2	—	6·7	2·55	+0·07	0·55	23rd	16	10	0	0	0	2	0	8	0	0	0	19	0	2	1	0	15	7	35	7	23	Dumfries.
—	—	—	—	—	—	—	2·79	−0·34	0·62	23rd	12	8	0	0	0	0	—	—	0	—	2	12	0	3	0	1	30	7	20	0	29	Cally.
6·66	−0·67	40	− 4	7·6	—	7·3	2·96	−0·43	0·61	9th	16	14	0	0	0	2	0	17	4	0	0	30	1	2	1	6	17	6	13	29	15	Douglas.
6·14	−0·76	37	− 4	7·1	6·2	7·0	2·10	−0·06	0·51	7th	15	9	0	0	0	2	2	12	0	0	1	48	5	5	2	4	7	6	8	32	21	Southport.
4·44	—	27	—	5·0	—	6·1	1·94	−0·93	0·40	9th	15	10	0	0	0	1	2	0	0	0	0	15	1	0	0	9	8	14	15	24	19	Manchester.
4·35	—	26	—	7·3	6·6	6·7	1·85	—	0·34	9th	13	11	0	0	0	2	2	9	0	—	0	30	15	2	0	6	8	14	11	28	6	Whitwth Pk.
4·51	—	27	—	8·3	—	8·5	3·70	—	0·99	9th	19	14	0	0	0	1	0	17	0	0	0	32	0	0	1	1	7	17	8	44	12	Darwen
4·83	—	29	—	7·6	—	6·5	3·34	—	0·70	9th	19	14	0	0	0	1	3	15	1	0	0	12	14	7	0	2	6	22	12	9	18	Egremont.
5·21	—	31	—	7·0	—	7·1	3·07	+0·60	0·90	9th	17	11	0	0	0	1	1	12	0	0	0	20	9	3	1	3	3	9	21	24	17	Aspatria.
5·60	−1·37	33	− 8	7·4	—	6·2	2·18	+0·14	0·75	9th	17	14	0	0	0	1	0	10	0	1	1	26	21	0	0	0	4	17	18	25	5	N'wt'n Rigg.
3·82	−2·71	23	−16	—	—	—	2·47	−0·71	0·81	9th	17	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
6·12	−0·51	37	− 3	7·3	—	8·0	1·99	−0·23	0·38	7th	15	11	0	0	0	2	0	11	0	1	0	53	1	6	0	7	9	8	9	32	18	Blackpool.
6·87	—	41	—	5·7	—	6·4	2·10	−0·07	0·37	7th	15	10	0	0	0	3	3	10	0	—	0	26	0	7	0	5	10	8	11	34	15	Liverpool.
6·51	−0·29	39	− 2	6·7	—	6·4	2·63	+0·66	0·64	19th	12	11	0	0	0	1	4	13	0	—	1	8	12	15	0	3	0	6	4	44	6	Llandudno.
7·10	—	43	—	6·9	5·7	7·5	2·28	+0·09	0·48	9th	14	10	0	—	0	4	1	10	8	—	2	34	0	15	3	4	1	11	29	15	12	Holyhead.
5·65	—	34	—	6·0	—	5·6	4·04	—	0·35	9th	10	10	0	0	0	0	2	4	0	0	0	6	0	12	1	12	12	5	24	9	15	Bettws.
6·94	—	42	—	7·5	—	7·1	2·97	—	0·82	9th	13	10	0	0	0	0	3	13	0	0	2	12	32	3	0	0	0	14	30	10	1	Dwyran.
6·32	—	39	—	7·6	—	—	3·15	—	1·43	9th	13	9	0	0	0	0	3	18	0	1	0	15	24	3	0	3	3	0	12	30	15	Llangamch.
6·79	−0·74	42	− 4	6·5	4·8	6·4	1·81	−0·25	0·35	22nd	13	10	0	—	0	0	0	2	3	—	2	35	0	3	5	5	4	9	15	30	19	Pembroke.
—	—	—	—	5·8	5·4	4·2	0·25	—	0·09	5th	8	2	0	—	0	0	0	2	3	—	2	38	0	3	4	9	5	5	24	26	14	Portl'nd Bill
6·26	−0·81	39	− 5	7·7	7·2	7·2	0·81	−1·43	0·21	22nd	12	8	0	0	0	0	1	14	2	0	0	14	4	11	0	5	6	11	20	22	11	Plymouth.
6·55	−1·02	41	− 6	6·6	5·6	5·5	1·40	−1·04	0·32	6th	14	10	0	0	0	0	4	9	1	—	0	11	15	11	1	4	4	3	14	23	15	Falmouth.
8·05	—	49	—	—	—	—	1·93	−0·63	0·50	9th	11	7	0	0	0	0	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
6·71	−0·62	42	− 3	6·3	—	5·6	1·42	−0·55	0·27	22nd	15	8	0	—	0	0	8	13	6	—	0	30	3	4	0	6	5	3	24	30	15	Newquay.
6·35	−1·18	39	− 7	5·1	—	5·3	1·55	−0·34	0·34	5th	12	9	0	0	0	1	5	6	1	—	0	14	18	1	3	4	1	5	5	41	12	Woolac'mbe.
—	—	—	—	8·0	7·6	—	3·70	—	1·06	5th	17	13	0	0	0	0	0	17	15	—	0	24	0	4	3	0	18	3	23	6	33	Princetown.
—	—	—	—	7·0	6·5	6·0	2·25	—	0·55	5th	16	10	0	0	0	0	6	12	11	—	0	28	9	13	1	8	3	8	13	22	13	Sheepstor.
7·34	—	45	—	5·9	4·9	4·5	0·36	—	0·10	5th	8	4	0	0	0	1	5	6	0	0	0	27	2	6	1	11	7	11	8	30	14	Teignmouth
—	—	—	—	7·1	6·6	7·3	2·03	−0·06	0·70	18th	15	10	0	—	0	0	0	6	3	—	6	39	1	3	3	9	8	14	10	20	22	Malin Head.
—	—	—	—	6·9	6·2	7·3	4·11	+1·48	0·66	22nd	20	18	0	—	0	0	0	12	1	—	3	23	5	4	4	1	0	5	21	38	12	Blacksod Pt.
4·12	−1·55	24	−10	8·3	—	7·8	3·21	+0·23	0·66	18th	17	14	0	0	0	0	0	16	0	1	1	0	43	7	0	0	5	12	9	0	14	Markree Cas.
—	—	—	—	6·3	6·0	6·5	3·53	+1·25	1·11	24th	17	11	0	—	0	0	0	2	2	—	0	12	0	8	2	3	14	14	15	14	20	Donaghadee.
4·78	−0·95	27	− 7	8·2	—	7·8	3·99	+1·52	1·86	18th	16	14	0	0	0	0	1	20	0	0	0	3	42	0	1	1	6	12	16	11	1	Armagh.
—	—	—	—	—	—	—	2·02	−0·39	0·27	18th	17	13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·5	—	5·7	3·31	—	0·76	18th	14	13	0	0	0	1	3	6	0	—	4	24	9	1	0	0	9	14	15	15	27	Newtown-forbes.
5·78	—	35	—	6·9	—	6·6	1·13	—	0·24	19th	10	10	0	0	0	0	3	10	0	0	0	5	18	0	0	12	1	4	9	35	11	Dublin T. C.
6·01	−0·52	36	− 3	6·4	—	6·8	1·39	−0·69	0·30	5th	14	9	0	0	0	1	2	10	0	1	0	8	15	1	4	7	4	2	17	34	6	Phœnix Pk.
—	—	—	—	5·8	—	6·0	1·20	−0·79	0·25	19th	13	9	0	0	1	1	3	6	0	0	1	20	0	4	6	9	7	6	15	26	17	Dublin (City).
4·82	−0·81	29	− 5	6·2	7·3	7·7	3·28	+0·81	0·80	18th	15	12	0	—	0	1	0	5	0	1	0	25	1	3	2	1	6	20	18	27	12	Birr Castle.
5·28	−1·15	32	− 8	8·2	7·7	7·9	3·77	+0·18	0·69	22nd	21	14	0	0	0	0	0	17	1	—	0	29	14	1	1	0	9	18	20	22	5	Valencia.
—	—	—	—	6·8	7·6	6·3	2·97	−0·23	0·60	20th	21	14	0	—	0	0	2	12	4	—	0	22	2	12	1	3	7	23	17	11	14	Roche's Pt.
4·72	—	29	—	8·0	7·7	6·2	3·50	—	0·81	9th	16	14	0	0	0	0	0	15	0	0	1	32	6	2	2	1	8	10	13	30	18	Limerick.
7·11	−1·02	44	− 7	6·4	5·6	6·3	1·32	−0·55	0·32	20th	12	10	0	—	0	0	2	5	5	—	1	29	7	8	1	4	7	8	8	20	27	Scilly.
7·27	−0·76	46	− 4	6·7	6·6	5·3	0·75	−1·31	0·17	5th	10	7	0	—	0	0	2	9	1	—	0	22	0	3	4	10	4	3	9	50	7	Jersey.
7·86	−0·54	49	− 4	6·6	—	4·3	0·67	−1·47	0·18	6th	14	6	0	0	0	0	5	5	8	0	0	18	4	0	6	5	6	1	14	45	9	Guernsey.
—	—	—	—	4·0	2·9	2·7	0·00	—	0·00	—	0	0	0	0	0	0	10	1	0	0	0	23	3	0	0	51	17	0	3	7	9	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JUNE, 1913.

DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
0. SCOTLAND, N.		Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
p Baltasound ...	§	31	54·8	45·9	50·4	—	61	4, 15, 20	39	12, 13	53·0	—	1·83	—	0·43	28th	14	0	1	1	9	—	4·61	—	25	—
a Fortrose		69	59·9	48·0	54·0	—	65	5, 6	41	12th	—	—	2·78	—	0·67	18th	15	0	0	2	0	—	5·89	—	33	—
1. SCOTLAND, E.																										
a Crathes	§	140	64·7	47·3	56·0	—	74	16th	38	12th	55·8	51·0	1·46	—	0·32	19th	15	0	0	1	0	0	5·86	—	34	—
p Stonehaven ...		86	61·3	46·9	54·1	—	72	29th	39	12th	—	—	1·83	—	0·49	19th	14	—	—	—	—	—	6·32	—	36	—
p Balruddery ...	§	276	64·4	45·3	54·9	—	75	16, 29	36	12th	—	—	1·64	—	0·35	4th	10	0	0	1	0	—	5·48	—	32	—
a Carnoustie		39	61·1	47·7	54·4	—	71	28th	41	11th	—	—	1·27	—	0·29	4th	13	0	0	0	0	—	6·21	—	36	—
a St. Andrews		20	63·7	47·7	55·7	—	72	16th	40	12, 13	55·2	50·4	1·84	—	0·33	6th	11	0	0	0	0	1	6·01	—	35	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	63·8	47·2	55·5	+ 1·1	72	2nd	37	2nd	—	—	2·80	+0·75	1·43	6th	13	0	0	2	0	—	—	—	—	—
a Bellingham		848	62·9	45·7	54·3	—	73	17th	36	2nd	—	—	1·72	—	0·29	9, 23	14	0	0	2	0	—	—	—	—	—
a Tynemouth		90	62·4	48·8	55·6	—	68	1, 2	42	2, 12	54·7	51·0	1·12	—	0·21	23rd	15	0	0	3	0	0	6·44	—	38	—
a Chopwellwood		445	64·1	45·9	55·0	—	73	16th	36	2nd	—	—	1·47	—	0·34	18, 24	13	0	0	0	0	3	5·42	—	32	—
a Ushaw		599	63·4	47·2	55·3	—	73	16th	39	2nd	—	—	0·67	—	0·15	24th	12	0	0	1	0	—	—	—	—	—
a Ampleforth		349	63·9	47·7	55·8	—	76	17th	40	11th	—	—	1·56	—	0·50	24th	13	0	0	3	1	—	—	—	—	—
a West Witton		605	63·5	47·3	55·4	—	74	16th	38	2nd	57·1	50·4	1·34	—	0·33	9th	16	0	0	3	1	0	—	—	—	—
a Fulbeck	¶	180	67·5	47·5	57·5	− 0·9	82	17th	39	2nd	—	—	0·55	−1·43	0·12	17th	11	0	0	2	0	0	—	—	—	—
a Rauceby	§	124	68·1	47·5	57·8	—	80	17th	39	1st	60·8	54·3	0·85	−1·06	0·23	8th	12	0	0	0	0	0	6·34	—	38	—
3. ENGLAND, E.																										
a Norwich		93	67·7	49·3	58·5	—	83	17th	42	14th	60·1	—	0·72	—	0·18	24th	12	0	1	6	1	0	6·64	—	40	—
a Peterborough (Eye) ...		16	68·3	48·0	58·2	—	81	17th	41	1st	—	—	1·51	—	1·10	17th	12	0	1	3	0	—	—	—	—	—
a Ridgewell		269	66·7	47·8	57·3	—	81	17th	41	1st	—	—	1·15	—	0·66	17th	9	0	0	2	0	—	—	—	—	—
a Ipswich (Copdock) ...		164	67·6	47·8	57·7	—	83	17th	41	14th	58·5	55·1	1·57	—	0·70	20th	9	0	0	3	0	0	6·74	—	41	—
a Felixstowe		10	64·4	52·0	58·2	+ 0·2	72	29th	46	1, 9	—	—	1·98	—	0·81	20th	9	0	1	1	0	—	7·20	—	44	—
a Walton-on-Naze		68	63·5	51·9	57·7	—	72	17th	43	9th	—	—	0·62	—	0·17	1st	8	—	—	—	—	0	6·79	—	42	—
a Halstead		139	68·7	47·6	58·2	—	84	17th	40	1, 14	—	—	1·23	—	0·45	17th	10	0	1	2	0	—	—	—	—	—
a Chelmsford		134	69·0	46·4	57·7	—	85	17th	38	1st	—	—	2·02	—	1·00	20th	9	0	2	2	0	—	—	—	—	—
p Hemel Hempstead ...		535	66·2	47·6	56·9	—	80	16th	40	1st	—	—	1·40	—	0·49	6th	10	0	0	1	0	3	—	—	—	—
a Rothamsted ...	¶§	424	67·2	48·0	57·6	+ 0·1	80	16th	39	1st	—	—	1·06	−1·22	0·33	6th	8	—	—	—	—	—	6·85	+0·42	42	+ 3
a Shoeburyness		13	66·7	50·6	58·7	− 0·8	80	17th	46	1, 9	—	—	0·17	−1·62	0·05	6th	7	0	0	0	0	—	—	—	—	—
a Southend		90	68·0	52·1	60·1	—	80	17th	47	9th	62·2	—	0·48	−1·57	0·17	20th	8	0	0	2	0	0	7·40	—	45	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	63·7	47·5	55·6	+ 0·1	75	16th	41	12th	55·1	52·9	1·40	−1·05	0·27	17th	13	0	0	2	0	0	6·23	—	37	—
a Bradford		439	63·3	49·1	56·2	—	72	16, 17	41	2nd	56·1	51·0	1·61	—	0·48	17th	12	0	0	0	0	0	6·06	—	36	—
a Meltham		513	63·8	47·9	55·9	—	75	16th	39	2nd	55·8	—	2·53	—	1·02	9th	15	0	0	2	0	0	—	—	—	—
a Cheadle	¶	646	64·8	48·1	56·5	+ 0·6	76	16th	40	8th	—	—	1·49	−1·30	0·68	9th	11	—	—	—	—	0	—	—	—	—
a Wellington ...		207	67·6	45·8	56·7	—	80	16th	36	1st	—	—	1·09	—	0·31	5th	9	0	0	0	0	—	—	—	—	—
a Bawtry	¶	65	67·8	48·5	58·2	+ 0·3	80	16th	41	2nd	—	—	0·85	−1·20	0·26	7th	13	—	—	—	—	—	—	—	—	—
a Matlock		636	66·1	47·5	56·8	—	79	16th	40	2nd	—	—	1·12	—	0·44	9th	13	0	0	1	0	—	6·24	—	38	—
a Belper		222	67·7	47·1	57·4	—	80	16th	36	1st	—	—	1·05	—	0·65	9th	9	0	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...		280	65·3	48·3	56·8	—	78	16th	40	1st	—	—	1·07	−1·61	0·62	9th	11	0	0	1	0	—	—	—	—	—
a Mayfield (Staffs) ...		374	65·2	46·2	55·7	—	76	16, 17	33	1st	—	—	1·73	—	0·88	9th	15	0	0	2	0	0	5·89	—	36	—
a Strelley		377	66·2	48·4	57·3	− 0·3	78	16th	41	1st	58·2	—	0·85	−1·61	0·47	9th	10	0	0	0	0	—	5·63	+0·23	34	+ 1
a Kingston-on-Soar...		125	67·0	46·3	56·7	—	80	16th	37	1st	58·1	—	0·93	—	0·44	9th	8	0	0	0	0	—	—	—	—	—
a Sparkhill		425	67·9	48·2	58·1	—	82	16th	40	1st	—	—	1·27	—	0·38	9th	9	0	0	3	0	0	—	—	—	—
p Rugby		379	68·5	47·3	57·9	+ 0·4	82	16th	40	1, 21	—	—	0·68	—	0·25	6th	8	0	0	0	0	0	—	—	—	—
a Raunds	¶	204	69·7	47·8	58·8	+ 0·5	83	16th	39	1st	59·7	53·9	0·70	—	0·20	17th	9	0	0	1	0	0	6·40	—	39	—
a Malvern		520	67·2	50·5	58·9	—	80	29th	45	9th	—	—	0·78	—	0·18	9th	9	—	—	—	—	—	6·94	—	42	—
a Ross...		214	69·5	49·7	59·6	—	83	29th	41	1st	—	—	0·83	—	0·30	5th	8	0	0	1	0	0	—	—	—	—
a Hereford	¶	291	67·8	48·5	58·2	− 0·1	80	29th	41	2nd	—	—	0·88	−1·34	0·28	19th	9	0	0	0	0	?0	—	—	—	—
a Leamington		165	67·3	48·4	57·9	—	79	16th	40	1, 15	64·9	55·5	0·46	—	0·19	9th	8	0	0	0	0	0	6·85	—	42	—
a Cirencester... ...	¶§	446	68·7	46·7	57·7	+ 0·7	80	16th	36	1st	57·8	54·0	0·79	−1·60	0·17	7th	11	—	—	—	—	0	6·51	+0·01	40	0
a High Wycombe		249	68·3	48·8	58·6	—	82	16th	39	9th	—	—	0·66	—	0·31	20th	9	0	0	0	0	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	67·8	47·5	57·7	—	81	16, 29	37	1st	—	—	0·70	—	0·22	7th	8	0	0	0	0	0	—	—	—	—
a Wokingham		216	67·9	44·5	56·2	—	83	16th	35	1, 9	—	—	0·46	—	0·18	20th	6	0	0	0	0	—	—	—	—	—
a Marlborough ...	¶§	424	?	?	?	—	?	?	?	?	?	?	0·53	−1·93	0·21	16th	—	—	—	—	—	—	6·70	+0·63	41	+ 4
a Bucklebury ...		409	67·0	48·6	57·8	—	81	16th	40	1st	—	—	0·69	—	0·30	17th	7	0	0	1	0	1	—	—	—	—
a New Malden ...		39	70·2	49·3	59·8	—	85	16th	40	1st	60·5	55·4	0·26	—	0·09	20th	5	0	0	1	0	0	6·34	—	39	—
a Croydon (Addington) ...		472	66·5	50·2	58·4	—	81	16th	45	1, 9	—	—	0·24	—	0·07	6th	7	0	0	0	0	—	—	—	—	—
a Wallington		144	68·6	49·7	59·2	—	82	16, 17	43	1st	61·4	58·8	0·36	—	0·08	5, 20	7	0	0	0	1	0	—	—	—	—
a Woking		180	69·9	48·0	59·0	—	84	16th	40	1st	60·9	—	0·52	—	0·24	20th	7	—	—	—	—	0	—	—	—	—
a Margate	¶§	35	66·3	51·6	59·0	+ 0·9	83	17th	46	9th	58·4	54·2	0·61	−1·28	0·25	1st	6	0	0	4	0	0	6·34	+0·14	39	+ 1
a Aldershot		231	66·9	48·2	57·6	—	82	16th	38	1st	—	—	0·70	—	0·29	20th	9	0	1	0	1	—	—	—	—	—
a Wisley	¶§	150	68·9	48·4	58·7	− 0·4	84	16th	40	1st	60·5	56·1	0·62	—	0·34	20th	6	0	0	1	1	5	7·30	—	45	—
a Basingstoke		289	67·4	48·4	57·9	—	82	16th	39	9th	58·1	54·0	1·15	—	0·40	1st	9	0	0	2	0	0	—	—	—	—
a Sevenoaks		509	67·3	48·8	58·1	—	83	16th	43	9th	60·1	54·6	0·51	—	0·12	20th	9	0	0	0	0	0	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		320	67·5	48·3	57·9	—	83	16th	41	1, 3	—	—	0·55	—	0·15	20th	10	0	0	2	0	0	—	—	—	—
Ramsgate		168	65·2	50·6	57·9	—	79	17th	42	8th	—	—	0·89	—	0·39	6th	4	—	—	—	—	—	7·07	—	43	—
a Folkestone... ...		121	63·9	51·6	57·8	—	75	16th	45	8th	—	53·5	0·54	−1·39	0·16	1st	7	0	0	1	0	—	7·00	—	43	—
a Bexhill		27	64·3	52·4	58·4	—	79	29th	44	9th	60·9	—	0·75	—	0·28	20th	10	0	0	1	0	0	7·14	—	44	—
a Worthing	§	36	65·1	50·9	58·0	− 0·2	79	29th	43	9th	60·8	56·5	1·35	−0·54	0·75	20th	9	0	0	0	0	0	7·14	—	44	—
a Bognor		20	63·9	51·2	57·6	—	79	29th	43	9th	—	54·9	0·73	—	0·23	5th	10	0	0	0	0	—	7·04	—	43	—
a Selsey Bill... ...		21	64·6	50·9	57·8	—	78	29th	43	1, 9	—	—	0·64	—	0·20	5th	10	0	0	0	0	0	7·19	—	44	—
a Totland Bay		140	63·7	52·0	57·9	+ 0·4	78	16th	44	1st	—	—	0·61	−1·40	0·15	5, 6	9	0	0	2	0	0	7·29	—	45	—
a Sandown		20	65·9	52·2	59·1	—	78	29th	46	9th	—	—	0·78	—	0·22	16th	11	—	—	—	—	—	7·43	—	46	—
p Bournemouth		145	65·6	50·0	57·8	—	80	29th	43	1st	59·0	57·1	1·00	—	0·52	19th	8	—	—	—	—	—	6·94	—	43	—

1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in June, based on 35 years' observations, 1871-1905.

29·85 29·90 29·95 30·00 30·05 30·10 30·15

HIGH

WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* 10 10 10 LIGHT MODERATE STRONG ← 30 Obsns = 1 Inch →

2. MOVEMENTS OF DEPRESSIONS.

3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

SCALE OF TINTS 59° 56° 53° 52°

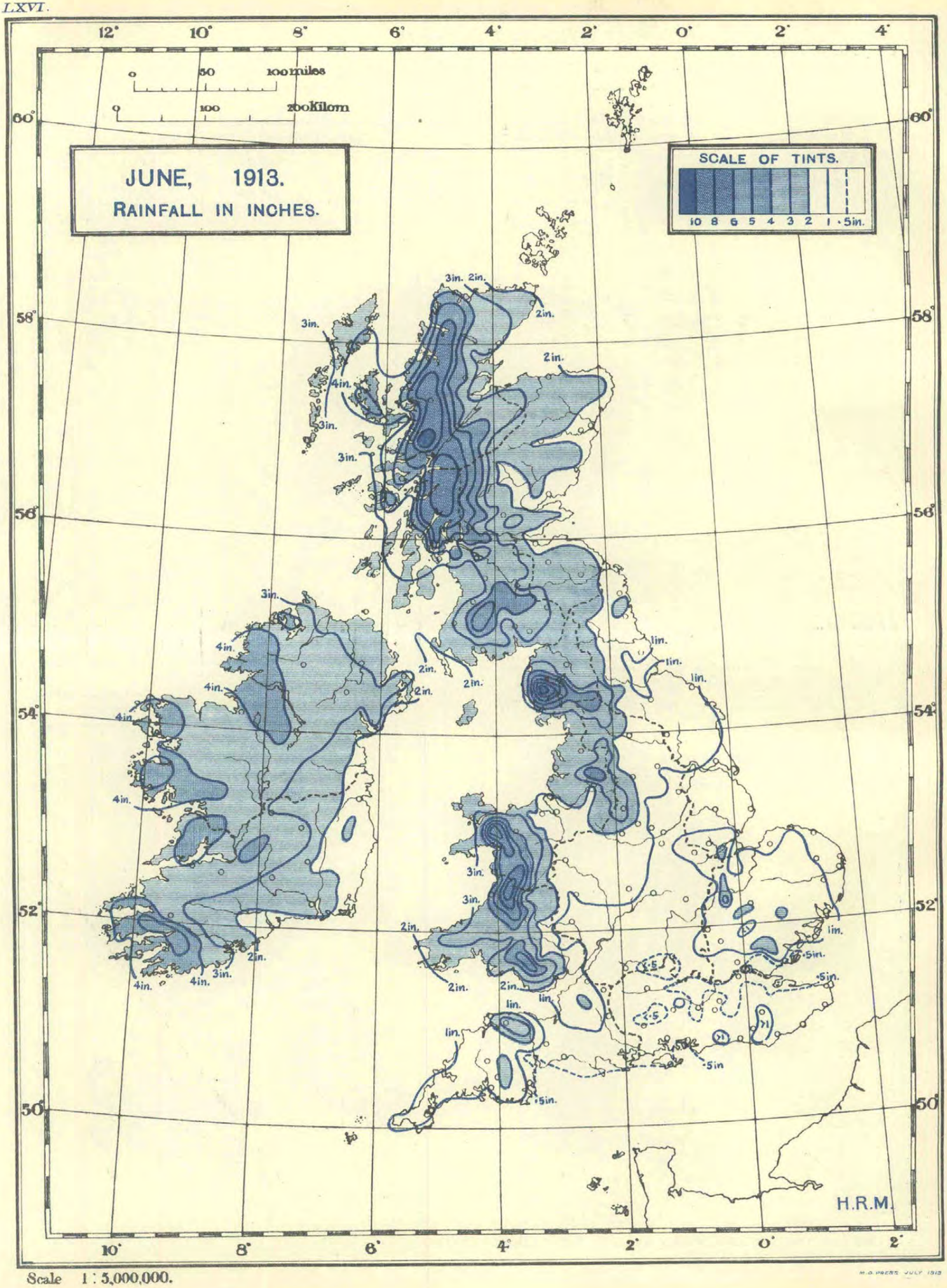
51° 53° 55° 52° 56° 54° 57° 57°

Sea temperatures are shown in large figures thus 57°

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS Hrs. 8 6 4

M.O. PRESS JULY 1913



Scale 1 : 5,000,000.

M.O. PRESS. JULY 1913.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JUNE, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	68·7	49·6	59·2	—	83	17th	41	1st	—	55·9	0·94	—	0·33	6th	8	0	0	0	0	0	6·89	—	42	—
a Golder's Green	279	68·3	49·6	59·0	—	83	17th	42	1, 9	—	—	0·36	—	0·16	6th	5	0	0	0	0	—	—	—	—	—
p Hampstead (Redington Rd.)	375	67·9	49·4	58·7	—	84	17th	41	11th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon	51	70·6	50·2	60·4	—	87	16th	42	1st	—	—	0·42	—	0·21	20th	5	0	0	1	1	0	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	59·1	48·7	53·9	—	71	17, 18	41	13th	—	—	3·91	—	0·65	9th	17	0	1	1	0	0	4·24	—	24	—
a Ardnadam	64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Thorntonhall (Lanarkshire)	440	61·5	46·4	54·0	—	74	16th	39	13th	—	—	3·68	—	0·87	9th	16	0	0	2	0	0	4·80	—	28	—
a Kilmarnock ¶	90	62·2	48·6	55·4	− 0·6	76	16th	42	4, 12	—	—	2·65	—	0·54	9th	17	0	0	0	0	—	5·04	—	29	—
p Ruthwell §	67	63·9	48·2	56·1	—	80	16th	37	12th	—	—	3·20	—	0·59	2nd	16	0	0	4	0	—	4·98	—	29	—
7. ENGLAND, N.W.																									
a Scaleby	111	64·2	47·6	55·9	—	78	16th	38	2nd	—	—	2·29	—	0·56	24th	17	0	0	3	0	—	—	—	—	—
a Seathwaite	422	62·8	48·0	55·4	—	79	16th	42	8th	—	—	11·83	—	4·20	9th	18	0	2	1	0	—	—	—	—	—
a Carnforth	174	62·8	48·5	55·7	—	75	16th	39	2nd	—	—	2·33	—	0·64	9th	17	0	0	2	0	0	4·54	—	27	—
a Lancaster	311	63·2	49·9	56·6	—	77	16th	42	2nd	58·1	56·8	2·39	—	0·72	9th	16	0	0	3	0	2	4·12	—	25	—
a Hutton	81	63·1	48·2	55·7	—	77	16th	38	2nd	56·6	52·1	2·10	—	0·65	9th	17	0	0	2	0	0	5·15	—	31	—
a Burnley	459	62·1	47·8	55·0	—	75	16th	39	2nd	55·6	51·0	2·24	—	0·57	9th	12	—	—	—	—	0	4·41	—	26	—
a Leyland	124	63·3	48·6	56·0	—	76	16th	38	2nd	—	—	2·63	—	0·62	7th	17	0	0	3	0	0	5·17	—	31	—
a Bolton	341	63·8	49·5	56·7	—	77	16th	42	1, 2	56·4	52·5	2·97	—	0·69	9th	18	0	0	1	0	0	3·89	—	23	—
a Blundellsands	34	63·1	51·6	57·4	—	76	16th	47	1, 2, 8	—	—	2·10	—	0·47	7th	15	0	0	1	0	—	—	—	—	—
a Hoylake §	30	67·3	49·5	58·4	—	78	16, 18, 21	45	1, 2	—	—	2·29	—	0·49	22nd	13	0	0	1	0	0	6·56	—	39	—
a Rhyl	30	62·9	50·2	56·6	—	78	16th	41	2nd	—	—	2·32	+0·49	0·43	7th	15	0	0	3	0	0	6·88	—	41	—
a Colwyn Bay	82	62·9	51·2	57·1	—	73	4, 15	47	1, 8, 9	—	—	2·30	—	0·61	19th	14	0	0	1	0	—	6·46	—	39	—
a Llanberis (Pen-y-Gwryd)	913	59·7	47·1	53·4	—	74	16th	42	9th	—	—	13·31	—	4·42	9th	16	0	0	0	4	—	—	—	—	—
a Macclesfield	500	64·9	49·1	57·0	—	79	17th	42	1, 9, 13	—	—	2·71	—	0·70	9th	17	0	0	1	0	—	—	—	—	—
a Northwich	117	66·9	49·7	58·3	—	81	16th	41	1st	—	—	2·01	—	0·48	9th	17	0	0	1	3	—	—	—	—	—
a Hawarden Bridge ¶	22	64·1	51·0	57·6	− 0·3	77	16th	42	1st	—	—	1·43	−0·45	0·41	5th	13	—	—	—	—	—	—	—	—	—
a Ruthin	449	62·8	49·1	56·0	—	75	16th	43	9th	—	—	1·58	—	0·43	7th	12	0	0	1	0	—	—	—	—	—
a St. Asaph	479	62·5	49·5	56·0	—	77	16th	44	9th	—	—	2·04	—	0·39	7th	12	0	0	2	0	0	—	—	—	—
a Welshpool	255	66·8	47·8	57·3	—	78	16, 17, 29	37	1st	—	—	1·83	—	0·63	9th	13	0	1	2	0	—	—	—	—	—
p Aberdovey §	22	62·4	52·4	57·4	—	79	16th	46	2nd	—	—	3·65	—	0·96	9th	17	0	0	0	0	—	6·32	—	38	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	60·7	51·6	56·2	—	77	16th	45	2nd	—	—	3·71	—	1·40	9th	13	0	0	0	0	—	6·44	—	39	—
a Gwernyfed	374	65·8	45·5	55·7	—	79	16th	34	1st	—	—	1·36	—	0·46	9th	9	0	0	0	0	—	—	—	—	—
a Haverfordwest	93	61·3	48·1	54·7	—	76	16th	39	2nd	—	—	—	—	—	—	—	0	0	0	2	—	7·66	—	47	—
a Swansea	24	66·5	50·8	58·7	—	77	29th	44	9th	62·5	56·8	2·77	—	0·62	5th	14	0	0	0	0	0	6·69	—	41	—
a Clifton ¶	229	66·8	51·9	59·4	0·0	83	16th	45	1st	—	—	1·02	−1·33	0·34	9th	10	—	—	—	—	0	8·22	—	50	—
a Weston-Super-Mare	29	65·4	51·3	58·4	—	82	16th	43	1st	—	—	1·28	—	0·39	9th	6	0	0	0	0	0	6·60	—	41	—
a Minehead	104	64·8	48·7	56·8	—	75	30th	41	1st	—	—	1·16	—	0·41	5th	9	0	0	0	0	0	6·84	—	42	—
a Ilfracombe	24	61.3	52·0	56·7	—	75	16th	48	1st	59·8	56·1	1·92	—	0·44	5th	14	0	0	0	1	0	6·65	—	41	—
a Arlington ¶	613	61·7	46·4	54·1	− 2·1	76	16th	40	1, 2	—	—	3·27	+0·09	0·90	5th	15	—	—	—	—	—	—	—	—	—
a Cullompton ¶§	202	67·5	46·9	57·2	− 1·0	82	29th	39	1st	60·8	—	0·89	−1·51	0·21	5th	15	0	1	0	0	0	6·58	+0·01	41	+ 1
a Rousdon	515	62·6	47·8	55·2	− 0·8	76	29th	44	1, 25	59·8	57·6	0·74	−1·28	0·23	19th	13	0	0	0	10	0	7·44	—	46	—
a Sidmouth	147	64·4	49·3	56·9	—	77	29th	42	1st	—	—	0·46	—	0·11	11th	8	0	0	0	0	—	—	—	—	—
Exmouth	14	64·3	50·9	57·6	—	76	29th	43	1st	—	—	0·21	—	0·05	22nd	8	—	—	—	—	—	8·05	—	50	—
a Killerton	160	67·8	48·0	57·9	—	82	29th	40	2nd	—	—	0·66	—	0·15	5th	10	0	0	0	0	0	—	—	—	—
a Shaftesbury ¶	722	64·2	48·9	56·6	+ 0·1	78	16th	43	9th	57·9	54·8	0·92	−1·45	0·24	1st	12	—	—	—	—	—	—	—	—	—
a Dorchester	314	64·4	48·4	56·4	—	80	16th	39	1st	—	—	0·68	—	0·23	6th	10	0	0	0	1	—	7·41	—	46	—
a Weymouth	21	65·6	51·6	58·6	—	75	16th	46	1st	—	—	0·56	—	0·18	19th	9	0	0	0	0	—	7·97	—	49	—
a Torquay	12	64·6	51·2	57·9	—	79	29th	47	1, 2, 25	—	—	0·51	—	0·13	19th	12	0	0	0	0	0	7·10	−0·60	44	− 4
p Paignton	11	64·3	49·5	56·9	—	80	29th	42	1, 2	—	—	0·49	—	0·13	19th	13	0	0	0	0	0	6·95	—	33	—
a Salcombe	39	64·5	50·5	57·5	—	75	30th	44	2nd	—	—	0·88	—	0·19	6th	9	0	0	0	1	—	7·54	—	47	—
a Tavistock	374	62·7	48·2	55·5	—	77	16th	39	2nd	—	—	1·85	—	0·63	5th	13	0	0	0	1	2	—	—	—	—
a Ashburton	583	64·2	49·5	56·9	—	79	29th	44	1st	—	—	1·08	−1·83	0·28	19th	11	0	0	0	2	—	—	—	—	—
a Fowey	51	63·9	50·4	57·2	—	76	16th	43	2nd	—	—	0·99	—	0·20	23rd	13	0	0	0	0	—	6·34	—	39	—
a Redruth	397	61·0	49·2	55·1	—	68	15, 16, 30	44	1st	—	—	1·57	—	0·30	5th	17	0	0	1	2	—	—	—	—	—
a Penzance	54	63·4	51·7	57·6	—	73	29, 30	46	2nd	—	—	1·27	—	0·25	22nd	16	0	0	0	2	—	6·65	—	41	—
9. IRELAND, N.																									
p Dunfanaghy	54	—	—	—	—	—	—	—	—	—	—	3·19	—	0·48	9th	15	—	—	—	—	—	—	—	—	—
a Lisburn	207	65·3	46·9	56·1	—	80	30th	36	12th	—	—	2·81	—	0·46	18th	15	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	63·7	48·3	56·0	− 0·2	74	29th	39	12th	—	—	1·12	−0·96	0·25	9, 19	12	0	0	1	0	4	—	—	—	—
a Kingstown	42	62·6	49·9	56·3	—	72	29th	45	2, 8, 12	—	—	1·03	—	0·30	19th	12	—	—	—	—	—	6·62	—	40	—
p Clongowes Wood Col.	245	62·7	46·6	54·7	—	72	29th	37	1, 12	—	—	1·70	—	0·41	5, 9	13	0	0	0	2	—	6·39	—	38	—
a Mountmellick	239	62·8	47·2	55·0	—	76	16th	40	1st	—	—	3·29	—	0·80	10th	14	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	61·0	48·7	54·9	—	70	28th	43	1, 3	—	—	1·11	—	0·29	9th	12	0	0	1	0	—	—	—	—	—
a Kilkenny ¶	195	62·4	47·1	54·8	− 2·4	74	16, 29	40	1, 3	—	—	2·04	−0·43	0·36	5th	14	0	0	0	0	0	—	—	—	—
a Cahir ¶	199	63·2	46·8	55·0	− 1·8	76	29th	38	1st	—	—	3·46	—	0·58	9, 18	17	0	0	0	0	—	—	—	—	—
a Wexford	99	62·9	49·0	56·0	—	75	29th	44	1st	—	—	1·85	—	0·52	9th	11	0	0	0	0	—	—	—	—	—
a Waterford ¶	100	62·0	48·3	55·2	− 2·0	76	16th	41	1, 3	—	—	2·06	−0·76	0·36	18th	10	0	0	0	0	—	—	—	—	—
p Waterford Trg. Coll.	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Foynes ¶	108	61·2	48·4	54·8	− 2·2	72	17, 30	41	12th	—	—	4·08	+1·73	0·94	10th	19	0	0	1	0	—	—	—	—	—
a Killarney ¶	174	64·4	48·9	56·7	− 0·2	78	16, 29	39	1st	—	—	2·10	−0·73	0·71	9th	17	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	61·7	47·6	54·7	—	72	16th	38	1, 3	—	—	2·18	—	0·44	18th	11	0	0	0	1	—	5·91	—	36	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	63·7	51·0	57·4	− 0·1	79	16th	45	1st	—	—	0·65	−1·49	0·20	6th	13	—	—	—	—	—	7·95	−0·32	50	− 2

DISTRICT VALUES—JUNE, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	76	33	59·1	47·4	52·9	+0·3	54·2	−0·9	—	—	4·22	+1·46	18	4·54	−0·65	26	− 3	7·8	7·3	7·7	30·44	30th	29·00	10th
Eastern.																								
1. SCOTLAND, EAST ...	78	34	62·7	46·5	54·2	+0·2	55·5	+0·6	50·5	+0·1	2·17	−0·01	14	5·94	−0·09	34	− 1	6·7	6·9	6·7	30·41	30th	29·15	10th
2. ENGLAND, N.E. ...	82	36	64·7	48·7	56·3	+1·1	57·7	+1·2	52·6	+0·6	1·15	−0·68	13	6·74	+0·46	40	+ 3	6·5	—	6·3	30·42	30th	29·32	10th
3. ENGLAND, EAST ...	85	38	66·6	49·7	57·8	+0·8	60·6	+0·8	56·5	+0·8	0·92	−1·07	9	6·78	−0·09	41	− 1	7·0	6·3	5·8	30·44	14th	29·65	10th
4. MIDLAND COUNTIES	83	33	67·1	48·4	57·2	+0·3	58·0	+0·6	53·0	+0·4	0·94	−1·10	10	6·42	+0·20	39	+ 1	6·9	6·7	5·9	30·43	28th	29·63	10th
5. ENGLAND, S.E. ...	85	35	66·2	50·5	57·9	0·0	60·2	+0·2	56·0	+0·5	0·63	−1·24	7	6·88	−0·14	42	− 1	5·9	6·1	5·3	30·38	14th	29·80	10th
Western.																								
6. SCOTLAND, WEST ...	80	33	61·6	48·6	54·7	−0·6	57·5	—	53·0	+0·1	2·97	+0·14	17	5·47	−0·91	32	− 5	7·4	8·1	7·4	30·39	30th	29·33	10th
7. ENGLAND, N.W. ...	81	36	62·8	49·6	55·7	−0·5	57·3	+0·3	53·0	+0·1	2·51	+0·29	14	5·36	−1·32	32	− 7	6·9	6·2	6·9	30·45	28th	29·60	10th
8. ENGLAND, S.W. ...	82	34	63·3	49·4	55·9	−1·1	59·7	+0·1	55·4	+0·6	1·55	−0·68	11	6·52	−0·38	40	− 2	6·7	6·0	5·6	30·50	28th	29·70	5th
9. IRELAND, NORTH ...	80	35	60·2	47·9	53·6	−1·8	56·4	−0·2	52·3	−0·2	3·36	+0·74	17	4·45	−1·20	26	− 8	6·9	6·5	7·2	30·49	28th	29·34	10th
10. IRELAND, SOUTH ...	76	37	62·1	48·5	54·8	−2·0	57·9	0·0	53·8	−0·3	2·77	+0·26	17	5·56	−0·62	33	− 4	6·9	7·6	6·8	30·54	28th	29·61	5th
11. ENGLISH CHANNEL ...	79	44	62·7	51·2	56·7	−1·2	60 4	−0·1	56·8	−0·1	1·04	−0·76	11	7·19	−0·95	45	− 6	6·6	6·1	5·3	30·51	28th	29·73	5th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
	hr.		%	
5. ENGLAND, S.E.				
Broadstairs ...	7·27	—	45	—
Littlestone§ ...	6·69	—	41	—
Hove	6·87	—	42	—
Westbourne ...	7·51	—	46	—
LONDON.				
Bunhill Row ...	6·22	+0·32	38	+ 2
Plumstead ...	5·63	—	35	—
8. ENGLAND, S.W.				
Tenby	7·33	−0·30	45	− 2
Port Talbot ...	6·07	—	37	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	0·45	—	0·25	1st	6
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	0·78	—	0·23	5th	8
Forest of Dean (900 ft.)	0·79	—	0·21	5th	6

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky."** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905 ; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Falmouth, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B. The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, July 29, 1913.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. VII. JULY, 1913. [*Price 6d.*

DULL, DRY, AND RATHER COOL.

Pressure, Winds and Weather.—With the exception of a few very shallow depressions, some of them not more definite in their formation than irregularities in the course of the isobaric lines, the distribution of atmospheric pressure over the British Isles during the period now under notice was almost wholly of an anticyclonic type. The area of high pressure which embraced the whole of this country through the closing week of June, occupied practically the same position in the opening days of July, the barometer standing at about 30·5 in. in the north and north-west of Ireland on the 1st and 2nd, the highest level attained at the home stations during the month. Very slowly the system began to drift to the westward and south-westward out over the Atlantic, and at the same time areas of lower pressure, covering the region from Spitzbergen down to Southern and South-Eastern Europe, expanded westward towards the eastern districts of Britain. In a small secondary irregularity on the western border of a depression centred over Southern Sweden and the Baltic on the 6th, the barometer descended to 29·70 in. at Yarmouth, and to 29·71 in. at Clacton, and these proved to be the lowest readings registered in this country throughout the month. As gradually as it had withdrawn to the Atlantic, the anticyclone returned; on the 23rd its central space was extending north-eastward between Scotland and Iceland towards Northern Norway. During this period, however, there were again some minor irregularities of pressure, associated with slight variations in the weather. While one of these depressions was moving eastward from off the south of Iceland to Scandinavia, the barometer dropped to 29·72 in. at the extreme northern stations—Stornoway, Wick and Lerwick—on the 17th. This and the 6th were the only days on which readings as low as 29¾ in. were reported. On the 21st, when the anticyclone occupied the Eastern Atlantic. from Iceland southward, a shallow depression formed off the north-west of Ireland and near the region of maximum pressure; on arriving over Wales, on the following morning, it dispersed. A disturbance of considerable activity affected the east coast of Britain early on the 23rd. It was travelling along an almost circular path, its first appearance being over the Crimea on the morning of the 20th. From thence it passed across Riga to Southern Sweden, Denmark and Holland, then down to Italy and eastward across South-Eastern Europe.

From the 1st to the 23rd a North-Westerly (Westerly to Northerly) wind prevailed over these islands, but on the 24th the area of maximum pressure took up a position between Scotland and the Arctic Circle, subsequently returning to the neighbourhood of our north-western coasts. Most of the depressions, generally very shallow ones, were now found to the southward, between the Azores and Southern Europe, and the closing week of the month was consequently marked by a North-Easterly (Northerly to Easterly) wind current, which prevailed over nearly the whole of these islands, the only interruption being a weak Westerly flow over the far north of Scotland towards the end of the month.

With the general prevalence of anticyclonic conditions, and the entire absence of depressions of any considerable depth, the mean pressure for the whole period was everywhere in excess of the normal, least in the south-east, 0·04 in. at Dover, and 0·05 in. at Jersey, greatest in the north-west and north—more than 0·2 in., as much as 0·23 in. at Castlebay, and 0·24 in. at Stornoway. The distribution of mean pressure differed widely from the average, the central space of an anticyclone being indicated on the Atlantic, between Ireland and the Azores, and of a cyclonic system over Russia, the barometric results ranging from 30·28 in. at the Azores, and above 30·15 in. on the west coast of Ireland to 30·04 in. at Dover, and 29·76 in. at Moscow. Over the United Kingdom, therefore, the gradient was slight and of a distinctly Northerly type. About 50 per cent. of the wind observations were represented by calms, and of the remainder only a few directions were from points in the southern half of the compass.

From what has been said above it will be gathered that, in the absence of any cyclonic systems possessed of much energy, the month as a whole was exceedingly quiet. Calms and light to moderate breezes formed the great bulk of the wind observations, which disclosed very few instances of the force of a strong breeze being exceeded, even in gusts. A temporary increase in the Northerly pressure gradient on the 7th resulted in a high wind (force 7) at Lerwick, Wick and Newquay. With the westward expansion, on the 22nd, of a depression of moderate intensity centred near Stockholm there was a marked steepening of the Northerly pressure gradient on the east coast of Britain, the wind increasing to force 7 in squalls at a few places, and at Aberdeen gusts of 42 and 47 miles per hour were recorded. By the morning of the 23rd the centre of the depression had moved to the Netherlands, and at Spurn Head the wind increased to a gale from 2 a.m. to 7 a.m., at one time rising to a strong gale (force 9). The Shoeburyness anemometer registered a gust of 44 miles per hour. At Dungeness the extreme force was that of a high wind. A fishing fleet had a rough experience off the south coast of Cornwall on the morning of the 30th, when the centre of a shallow disturbance was over the mouth of the Channel. The East wind was strong at Scilly, a high wind at Plymouth, with a squall of 61 miles per hour, and the Pendennis anemometer registered a mean hourly velocity of 38 miles, with a gust at the rate of 60 miles an hour at 5.40 a.m.

There was a great deal of cloudy dulness during the month, especially over the eastern half of the kingdom, but this fact notwithstanding, rain was both light and uncommonly rare, and thunderstorms unusually infrequent and slight for the time of year. The reports for the 6th disclosed almost inappreciable irregularities of pressure over these islands, yet rain fell in nearly all places, mostly in small amounts, but here and there it was very heavy, an inch at Sheffield, 1·3 in. at Westbourne, Hidcote Campden, Leyland and Hutton, 1·4 in. at Blundellsands, and 1·7 in. at Hawarden. Thunderstorms occurred at Westbourne, Sheffield, and Belper, thunder at a few other isolated stations. Again, on the 10th, there were only some trifling variations in the barometric readings, but thunderstorms were experienced over the south-eastern quarter of England. Worthing and Heathfield received an inch of rain, Sevenoaks 1·1 in., and Preston (Sussex) 2 in. At Lewisham (south-east London) 0·72 in. fell in 27 minutes in a slight storm. A very shallow depression, barometer about 29·9 in., which moved eastward across Scotland on the 14th occasioned sporadic thunderstorms, the rainfall ranging up to an inch at Hildenborough and Newick, 1·1 in. at Preston and Rounton, 1·2 in. at Norwich and Midhurst, 1·5 in. at Geldeston, and 2 in. at Wallington. In the night of the 14th–15th a violent thunderstorm with very heavy rain, over 3 inches, was experienced at Mayfield, Sussex. In the small depression which brought rough weather to the mouth of the Channel in the night of the 29th–30th thunder and lightning were observed in the immediate neighbourhood, a violent thunderstorm breaking over Guernsey, with a torrential fall of rain and hail, one station receiving 1·8 in., the other 2·2 in.

No rain fell over the greater part of the kingdom after the 19th or 21st. Marchmont was rainless from 14th to 29th (16 days), Torquay 10th to 29th (20 days), Exmouth and Teignmouth 10th to 31st (22 days), the drought continuing into August.

The month generally was cool, afternoon temperatures as high as 75° being attained but seldom. On the 1st, however, a few localities in England, Scotland and Ireland touched 78° or 79°, and Killerton (Devon) 81°. Between the 27th and the 29th slightly higher readings were recorded in widely scattered localities, 82° at Marlborough, Welshpool and Ruthwell, and 83° at Killerton. Only about a score of night minima as high as 60° were reported. The lowest day temperatures were between the 6th and the 9th, 53° at Baltasound, and 52° at Gordon Castle. At various times there were night minima of 40° and under, the lowest, 32° at Ardross Castle, on the 23rd, and 31° at Balmoral next morning. Some South-Eastern stations were more than 4° below the month's normal.

An aurora was seen at Eltham on the evening of the 10th.

There was a general increase in the temperature of the sea water round our coasts. Compared with June it was 4° or 5° warmer in several districts. In most localities the water was cooler than the air, by 3° or 4° in places.

Fog was noted frequently on the western coasts; mostly from the 1st to the 5th, and the 9th to the 15th on the eastern coasts; while along the south coast it was seldom mentioned.

Rainfall.—The map of rainfall distribution presents a very exceptional appearance, the dry weather having affected even the normally very wet mountain regions. Aggregates of 2 in. or more were very few in number, but there were some instances above 3 in. in South-Eastern England. Considerable areas in South-Western England, Southern Ireland and Eastern Scotland had less than ½ in., several stations less than ¼ in. Worthing had 149 per cent. of the normal, Shoeburyness 141, Guernsey (Brooklyn) 127, and Geldeston 123 per cent. Nearly all other stations had less than the average, down to 11 per cent. at Scilly, 10 at Falmouth and Roche's Point, and only 6 per cent. at Waterford. At a very large proportion of the stations rain was measured on less than 10 days, in numerous instances on five or six days, and at Portland Bill and Hovingham Hall on four days only.

Bright Sunshine.—Excepting at a few isolated stations in the far north and west there was a deficiency of insolation, which was most marked in South-Eastern England. Glasgow returned 135 per cent. of the usual record, Valencia 129, Fort Augustus 124, and Markree Castle 114, while at the other extreme Cambridge and Strelley returned 47, Rothamsted 43, and Little Massingham only 40 per cent.

(31386—24.) Wt. 196—786. 1475. 8/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	
0. SCOTLAND, N.															
Islands *a* Castlebay ...	7, 1, 9	48	0·049	+·226	0·113	58·3	51·3	54·8	−2·4	63	24, 26	44	8th	—	—
Islands *p* Deerness ... §	9, −, 9	163	9·889	—	0·061	57·3	49·8	53·6	−0·6	63	31st	46	7, 9	—	—
Islands *a* Lerwick ... ¶	7, 1, 9	59	9·988	+·198	0·053	56·6	49·6	53·1	+0·3	61	30th	44	9th	—	—
Islands *a* Stornoway ... ¶§	7, 1, 9	52	0·056	+·234	0·106	59·9	50·2	55·1	+0·3	66	26th	40	8th	—	—
Mainland *a* Wick ... ¶	7, 1, 9	94	9·971	+·197	0·078	57·0	49·5	53·3	−2·0	65	3rd	43	24th	—	—
Mainland *p* Strathpeffer ¶§	9, −, 9	210	9·849	—	0·070	65·7	50·0	57·9	+1·4	75	27th	38	24th	—	—
Mainland *a* Glencarron ¶	9, −, 9	504	9·556	—	0·112	61·7	48·0	54·9	−0·4	75	26th	38	8th	—	—
Mainland *p* Ft. Augustus § ¶§	9, −, 9	73	0·001	—	0·077	63·8	50·5	57·2	+0·1	75	3rd	36	8th	—	—
Mainland *p* Ft. William § ¶	9, −, 9	38	0·047	—	0·084	66·0	49·9	58·0	+0·8	78	26th	39	8th	—	—
Mainland *p* Kingussie ... §	9, −, 9	828	9·182	—	0·072	65·1	47·7	56·4	—	79	27th	40	8th	—	—
Mainland *p* Dunrobin ... §	9, −, 9	16	0·061	—	0·083	60·1	49·9	55·0	—	68	2nd	44	7th	58·6	—
1. SCOTLAND, E.															
a Nairn ... ¶§	7, 1, 6	82	9·988	+·200	0·082	62·9	48·2	55·6	−1·8	71	3rd	38	24th	—	—
p Gordon Castle § ¶	9, −, 9	107	9·971	—	0·083	62·8	48·3	55·6	−1·8	74	30th	40	27th	—	—
Aberdeen ... ¶§	9, 3, 9	90	9·981	+·174	0·078	60·7	50·1	55·4	−1·8	68	2nd	40	9th	—	52·7
			9·979	+·171	0·075			55·3	−0·9						
a Balmoral ... § ¶	9, 3, −	927	9·083	—	0·076	66·3	46·5	56·4	—	77	28, 30	31	24th	—	—
p Braemar ... § §	9, −, 9	1114	8·891	—	0·080	65·5	46·5	56·0	+0·9	77	27th	31	24th	—	—
p Dundee ... § §	9, −, 9	164	9·910	—	0·082	66·5	50·6	58·6	−0·2	76	2nd	40	7th	—	—
p Crieff ... § ¶	9, −, 9	436	9·616	—	0·078	68·3	49·7	59·0	+0·2	80	3rd	40	24th	—	—
a Leith ... ¶	7, −, 6	37	0·022	+·162	0·066	64·1	51·9	58·0	−1·1	76	2nd	43	9th	—	—
p West Linton S ¶	9, 3, 9	805	9·214	—	0·076	63·8	46·5	55·2	−2·1	73	2, 3, 29	38	9th	—	—
p Marchmont § ¶§	9, −, 9	500	9·545	—	0·085	63·4	48·6	56·0	−1·2	73	2nd	41	9th	59·0	—
2. ENGLAND, N.E.															
p Whitby	9, −, 9	158	9·894	—	0·058	64·5	50·4	57·5	−1·5	72	12th	41	9, 10, 28	—	—
p Cockle Park §	9, −, 9	331	9·727	—	0·082	61·9	48·2	55·1	—	69	2, 14	41	9th	57·6	54·3
North *a* Shields ... ¶	7, −, 6	117	9·955	+·168	0·084	61·0	51·0	56·0	−2·3	67	2nd	46	8, 20	—	—
North *p* Durham ... ¶§	9, −, 9	352	9·703	—	0·077	62·9	49·1	56·0	−3·5	70	29th	39	9th	—	—
North *p* Rounton ... ¶	9, −, 9	245	9·794	—	0·054	63·2	48·4	55·9	−2·2	76	29th	39	10th	58·2	—
North *p* Scarborough ¶§	9, −, 9	127	9·932	—	0·056	60·7	51·9	56·3	−3·1	68	12,14,17	47	8, 9	—	57·6*
North *p* York ... ¶§	9, −, 9	53	0·032	—	0·083	65·4	51·6	58·5	−2·2	75	29th	45	8th	58·9	55·7
South *a* Spurn Head ¶	7, 1, 6	28	0·023	+·120	0·058	61·0	51·6	56·3	−3·9	69	12th	47	11th	—	—
South *a* Lincoln ... ¶	9, −, −	42	0·039	—	0·075	65·5	51·2	58·4	−3·5	75	29th	44	8th	59·7	56·0
South *a* Skegness ... §	9, −, −	16	0·045	—	0·054	61·9	50·3	56·1	—	72	17th	43	8th	—	—
South *p* Hull	9, −, 9	12	0·068	—	0·075	63·8	51·2	57·5	−3·1	75	13th	45	8th	57·8	54·3
3. ENGLAND, E.															
North *p* Lowestoft	9, 3, 9	77	9·968	—	0·050	61·2	51·4	56·3	−4·3	71	13, 17	43	8th	60·5	57·7
North *p* Cromer ... ¶§	9, −, 9	139	9·902	—	0·047	61·7	51·5	56·6	—	74	12th	48	8, 10, 21	—	—
North *p* Lit. Massingham ¶§	9, 3, 9	280	—	—	—	63·5	50·3	56·9	−4·5	75	13th	44	8th	—	—
North *a* Yarmouth ... ¶	7, 1, 9	27	0·020	+·098	0·050	62·4	51·9	57·2	−3·5	71	13,17,18	46	8, 11	60·9	58·3
North *p* Geldeston ... ¶§	9, −, 9	47	0·009	—	0·054	64·5	50·5	57·5	−3·8	75	14th	41	10th	—	—
South *p* Cambridge ... ¶§	9, −, 9	43	0·014	—	0·054	65·9	50·5	58·2	−4·2	74	14,28,29	42	7, 9	60·5	57·9
South *a* Clacton ... ¶§	7, 1, 9	54	9·988	+·078	0·045	64·2	52·0	58·1	−4·8	70	17th	42	8th	59·8	58·3
South *p* Woburn	9, −, 9	294	9·777	—	0·091	65·9	49·2	57·6	—	76	29th	41	7th	—	—
South *p* Bennington ...	9, 3, 9	411	—	—	—	65·7	50·0	57·9	—	74	14th	42	8th	60·7	58·2
South *p* Berkhamsted ...	9, −, 9	397	9·660	—	0·084	66·4	49·6	58·0	—	77	29th	40	8th	61·1	—
4. MIDLAND COUNTIES.															
a Garforth	9, −, 9	198	—	—	—	65·1	48·3	56·7	—	74	29th	40	11th	56·6	53·4
p Huddersfield ...	9, 3, 9	411	9·634	—	0·076	64·4	50·7	57·6	—	73	27, 29	43	8th	59·4	54·3
p Sheffield ... §	9, −, 9	450	9·598	—	0·078	63·8	51·4	57·6	−3·1	74	29th	44	8, 9	57·8	54·3
a Worksop	9, −, 9	67	0·013	+·115	0·079	66·7	49·9	58·3	−2·5	78	29th	43	9th	59·0	56·0
p Buxton	9, 3, 9	997	9·015	—	0·083	62·4	48·1	55·3	−2·5	74	29th	40	8th	57·0	52·8
East *p* Belvoir Castle ...	9, −, 9	276	9·791	—	0·085	64·3	50·7	57·5	−3·9	77	29th	40	9th	59·7	55·0
a Coventry	9, −, −	309	9·751	—	0·077	66·5	51·9	59·2	−2·8	78	29th	45	8, 9	60·2	56·0
a Thrapston	9, 3, −	251	—	—	—	65·4	50·4	57·9	—	75	29th	43	7th	—	—
a Nottingham ¶§	7, 1, 9	85	9·981	+·102	0·071	65·5	51·1	58·3	−3·2	78	29th	42	9th	58·9	56·9
p Birmingham ¶§	9, −, 9	542	9·506	—	0·085	64·9	51·6	58·3	−2·1	76	29th	46	8, 9	54·9	51·7
a Oxford ... ¶§	8, −, 8	212	—	—	—	67·3	54·1	60·7	−1·3	78	28, 29	46	8th	—	—
			9·848	+·081				58·4							
a Bath ... ¶§	7, −, 6	84	9·986	+·089	0·082	69·7	52·6	61·2	−0·5	80	28th	46	20th	65·5	58·8
West *p* Shrewsbury ¶	9, −, 9	212	9·865	—	0·088	67·2	51·1	59·2	−1·6	78	29th	44	25th	—	—
West *p* Wistanstow ...	9, −, 9	484	9·562	—	0·079	67·4	49·9	58·7	—	79	29th	42	28th	—	—
West *p* Bromyard ...	9, −, 9	400	9·648	—	0·072	66·8	51·5	59·2	—	79	29th	43	8th	61·5	56·9
West *p* Cheltenham ...	9, −, 9	206	9·868	—	0·082	67·7	52·9	60·3	−0·9	79	28, 29	45	8th	—	—
5. ENGLAND, S.E.															
p Reading	9, −, 9	264	9·790	—	0·067	67·3	50·9	59·1	—	78	27th	44	20th	—	—
p Salisbury (Wilton) ¶	9, −, 9	186	—	—	—	69·8	50·3	60·1	−2·3	80	28th	44	20th	63·4	—
a Grayshott	9, 2, −	659	9·369	—	0·074	64·9	50·0	57·5	—	74	28, 31	42	8th	59·7	—
a Midhurst	9, 2, −	493	9·536	—	0·063	65·1	—	—	—	73	28, 31	—	—	—	—
a Brighton	9, −, −	48	—	—	—	66·6	53·5	60·1	−2·4	77	31st	47	8th	—	59·8
a Portsmouth ...	9, −, −	18	0·063	—	0·077	67·7	54·2	61·0	−1·4	77	31st	49	8th	62·7	59·5
p Eastbourne §	9, −, 9	36	0·021	—	0·053	65·3	53·2	59·3	−2·6	79	31st	47	8th	61·6	59·1
a Dover	7, −, 6	234	9·796	+·044	0·052	63·8	52·3	58·1	—	70	31st	44	8th	58·8	55·0
a Dungeness ...	7, 1, 6	21	0·011	+·059	0·037	64·0	53·3	58·7	−2·9	70	31st	42	8th	—	—
p Hastings ... ¶	9, −, 9	174	9·874	—	0·055	65·1	52·9	59·0	−2·4	76	31st	47	8th	62·0	59·0
p Southampton ¶§	9, −, 9	84	9·991	—	0·075	68·2	53·3	60·8	−2·3	76	31st	48	9th	—	—
a Ventnor ... ¶§	9, 3, −	80	9·968	—	0·048	65·9	53·7	59·8	−2·2	73	4, 31	49	7, 8	—	—

HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.	Dry Bulb. I.	Dry Bulb. II.	Dry Bulb. III.	Dep. of Wet. I.	Dep. of Wet. II.	Dep. of Wet. III.	Vap. Pressure. I.	Vap. Pressure. II.	Vap. Pressure. III.	Humidity. I.	Humidity. II.	Humidity. III.
	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
	54·0	56·6	54·0	1·7	2·4	1·7	·368	·389	·368	88	84	88
	53·5	—	51·6	2·2	—	1·5	**·353**	—	**·344**	**86**	—	**90**
	52·7	55·3	52·6	2·3	3·5	1·8	·336	·342	·348	85	78	88
	53·9	58·9	52·9	1·7	4·1	1·6	·367	·376	·356	88	75	89
	52·5	55·2	52·4	1·0	1·8	0·9	·368	·384	·369	93	88	94
	58·3	—	55·1	3·3	—	2·5	·389	—	·364	79	—	84
	55·3	—	52·8	3·3	—	2·6	·346	—	·330	79	—	82
	56·8	—	56·3	2·4	—	1·5	·391	—	·409	84	—	90
	57·3	—	55·9	3·7	—	3·5	·356	—	·338	80	—	83
	56·3	—	54·9	4·9	—	3·7	·322	—	·331	70	—	76
	56·8	—	54·3	3·2	—	2·2	·370	—	·360	80	—	85
	53·8	60·2	58·6	2·1	5·1	4·5	·356	·370	·362	86	71	74
	57·4	—	53·4	3·4	—	2·0	·373	—	·353	79	—	87
	56·3	58·4	54·3	4·0	4·7	2·8	·346	·359	·350	76	73	82
	53·2	64·4	—	2·1	—	—	·347	—	—	86	—	—
	57·3	—	53·7	4·4	—	2·7	·346	—	·338	74	—	82
	58·6	—	55·0	3·0	—	2·3	·402	—	·367	82	—	85
	58·9	—	55·5	5·2	—	3·2	·349	—	·352	70	—	80
	55·2	—	60·8	3·1	—	5·8	·350	—	·360	81	—	68
	56·2	61·2	52·5	3·3	5·3	1·5	·360	·379	·354	79	71	89
	56·1	—	53·5	3·4	—	2·5	·357	—	·340	78	—	83
	60·1	—	54·5	4·2	—	1·7	**·394**	—	**·380**	**76**	—	**89**
	56·5	—	52·7	3·4	—	1·6	**·362**	—	**·355**	**79**	—	**89**
	53·6	—	57·6	2·4	—	3·9	·344	—	·364	83	—	77
	57·3	—	53·3	3·1	—	1·8	**·383**	—	**·360**	**81**	—	**89**
	56·9	—	53·3	3·4	—	1·8	·365	—	·357	79	—	88
	57·0	—	55·1	2·5	—	2·3	**·392**	—	**·372**	**84**	—	**85**
	58·5	—	56·0	3·8	—	2·7	·378	—	·373	77	—	83
	55·4	59·4	57·8	1·5	3·1	2·4	·396	·411	·407	90	82	84
	58·5	—	—	4·1	—	—	**·373**	—	—	**76**	—	—
	57·6	—	—	3·4	—	—	·377	—	—	79	—	—
	58·8	—	56·4	4·0	—	2·8	·378	—	·375	76	—	83
	59·0	59·7	56·0	3·2	3·7	1·7	**·405**	**·403**	**·402**	**81**	**79**	**89**
	56·5	—	54·7	1·7	—	1·0	·406	—	·400	89	—	94
	54·5	2·9	4·5	1·6	·391	·393	·379	82	74	89		
	55·0	60·5	55·8	1·4	3·5	1·9	·392	·416	·392	91	79	87
	58·3	—	55·0	3·3	—	1·5	·389	—	·389	79	—	90
	58·8	—	56·8	3·5	—	2·2	**·390**	—	**·398**	**79**	—	**87**
	55·6	61·5	58·0	1·7	4·2	2·3	·394	·413	·413	88	76	85
	57·8	—	56·2	2·8	—	1·7	**·396**	—	**·404**	**83**	—	**89**
	57·5	62·7	55·4	3·4	6·1	2·1	**·379**	**·383**	**·380**	**80**	**67**	**87**
	57·2	—	55·8	3·1	—	2·0	**·381**	—	**·388**	**81**	—	**87**
	58·1	—	54·9	3·9	—	1·8	**·374**	—	**·386**	**78**	—	**88**
	57·3	62·4	55·7	3·4	5·8	2·3	**·374**	**·385**	**·380**	**80**	**69**	**85**
	57·1	—	56·5	3·8	—	3·0	**·361**	—	**·378**	**77**	—	**81**
	58·5	63·9	—	4·0	6·3	—	·373	·393	—	76	66	—
	55·9	60·2	54·3	2·8	4·1	2·2	·369	·396	·360	83	76	85
	55·7	56·0	55·2	2·9	—	2·0	·376	—	·379	82	—	87
	58·6	—	—	3·9	—	—	·377	—	—	77	—	—
	57·7	63·5	—	3·2	6·1	—	·384	·392	—	80	67	—
	54·7	62·2	57·0	1·9	5·1	2·4	·374	·400	·394	88	72	85
	55·0	—	58·3	2·8	—	4·3	**·357**	—	**·368**	**83**	—	**75**
	—	—	—	—	—	—	—	—	—	—	—	—
				3·8			·378			77		
	56·9	—	66·1	2·5	—	7·6	·389	—	·392	84	—	62
	57·7	—	57·1	3·2	—	2·6	**·385**	—	**·392**	**81**	—	**84**
	58·5	—	55·2	2·8	—	1·2	·406	—	·401	82	—	92
	59·8	—	58·6	3·8	—	3·1	·397	—	·399	77	—	81
	57·8	—	58·5	1·7	—	1·8	·427	—	·435	89	—	88
	60·4	—	58·0	3·9	—	2·3	·404	—	·413	77	—	85
	56·6	63·2	—	2·5	5·5	—	·386	·404	—	84	70	—
	58·0	62·9	—	2·5	4·4	—	**·406**	**·451**	—	**84**	**76**	—
	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	4·0	—	—	·403	—	—	77	—	—
	60·6	—	59·0	3·9	—	0·7	**·410**	—	**·437**	**77**	—	**87**
	59·0	2·1	—	2·7	—	2·7	·402	—	·416	86	—	84
	57·7	62·3	60·7	2·5	5·2	3·3	·403	·398	·426	84	71	80
	56·8	3·8	—	1·8	·397	—	·408	77	—	88		
	59·8	—	59·8	3·7	—	3·0	**·405**	—	**·423**	**79**	—	**82**
	60·1	63·5	—	3·5	4·6	—	·411	·434	—	80	74	—

"NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea." *At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of JULY, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
4·85	—	29	—	7·9	7·6	7·4	1·55	—	0·37	8th	18	9	0	—	0	0	1	22	6	—	0	11	3	11	5	6	4	5	6	19	34	Castlebay.
4·20	−0·28	24	− 2	8·4	—	8·1	0·65	−2·20	0·16	4th	11	8	0	0	0	0	3	22	5	—	—	33	13	15	11	5	7	2	2	14	24	Deerness.
—	—	—	—	7·0	6·8	6·9	0·36	—	0·10	17th	9	3	0	—	0	0	0	5	0	—	0	21	1	20	8	4	8	6	9	21	16	Lerwick.
4·06	−0·59	24	− 3	7·9	7·3	8·0	0·86	−2·17	0·17	16th	13	8	0	—	0	0	2	19	0	—	0	27	4	11	23	0	3	10	10	19	13	Stornoway.
—	—	—	—	8·2	7·5	7·5	0·95	−1·79	0·15	9th	14	10	0	—	0	0	0	12	5	—	0	27	3	14	13	10	6	6	1	18	22	Wick.
4·75	+0·56	28	+ 3	6·8	—	7·0	1·13	−1·94	0·40	13th	9	5	0	0	0	0	4	14	0	—	0	11	48	4	3	3	0	5	7	17	6	Strathpeffer.
—	—	—	—	7·9	—	7·2	1·85	−3·70	0·37	16th	13	12	0	0	0	0	4	21	3	—	0	19	0	10	0	26	3	1	0	51	2	Glencarron.
4·02	+0·79	24	+ 5	7·9	—	7·5	1·39	−1·57	0·47	6th	8	5	0	0	0	0	2	18	1	—	0	33	3	2	41	3	0	9	30	4	1	F. Augustus.
—	—	—	—	7·8	—	7·5	0·90	−4·28	0·25	16th	9	5	0	0	0	0	3	19	2	—	0	14	31	0	17	7	2	3	25	3	5	Ft. William.
—	—	—	—	8·4	—	7·0	0·84	—	0·26	13th	8	10	0	0	0	0	1	18	0	—	0	15	12	22	15	2	0	0	9	19	14	Kingussie.
—	—	—	—	6·8	—	6·8	1·32	−1·60	1·07	13th	4	3	0	0	0	1	1	8	0	—	0	6	30	2	4	20	4	2	12	16	3	Dunrobin.
4·62	—	27	—	7·5	5·7	5·8	1·11	−1·66	0·35	30th	10	7	0	—	0	0	0	0	0	—	0	1	25	10	26	7	0	0	1	16	8	Nairn.
3·94	—	23	—	8·3	—	7·9	0·67	−2·65	0·16	5th	12	8	0	0	0	0	0	20	0	—	0	6	0	2	27	3	3	0	18	12	28	Gordon C.
4·34	−0·92	26	− 5	7·5	6·5	6·7	1·10	−1·80	0·37	6th	12	5	0	0	0	1	2	14	0	—	0	11	18	17	4	7	11	9	2	3	22	Aberdeen.
—	—	—	—	5·3	—	—	1·03	—	0·48	5th	6	4	0	0	0	1	9	10	0	3	2	12	0	3	3	0	0	0	21	45	21	Balmoral.
—	—	—	—	5·2	—	—	0·27	−2·56	0·13	5th	5	3	0	0	0	1	4	7	0	3	0	3	0	6	36	3	3	9	21	6	9	Braemar.
—	—	—	—	8·1	—	7·2	0·60	−2·38	0·23	6th	6	4	0	0	0	0	1	12	0	—	0	3	0	6	26	10	16	6	15	3	11	Dundee.
—	—	—	—	7·4	—	5·9	0·44	−2·72	0·17	13th	6	3	0	0	0	0	1	11	0	—	0	18	0	15	9	33	0	1	0	29	6	Crieff.
—	—	—	—	7·7	—	5·8	0·52	−2·25	0·26	6th	6	3	0	—	0	0	1	9	0	—	0	0	1	11	22	8	3	2	6	30	10	Leith.
4·37	—	26	—	8·2	6·7	6·5	0·82	—	0·19	6th	12	7	0	0	0	1	1	13	2	0	0	0	38	8	14	4	3	1	13	9	3	West Linton.
4·47	−1·05	27	− 6	8·1	—	6·6	0·79	−2·63	0·24	3rd	9	6	0	0	0	1	1	15	0	0	0	3	0	18	12	42	0	0	1	20	0	Marchmont.
3·64	—	22	—	8·4	—	7·8	0·95	−1·50	0·42	5th	9	7	0	0	0	0	0	18	0	—	1	18	34	21	9	1	2	2	4	5	15	Whitby.
3·72	—	23	—	8·4	—	6·4	0·59	−2·11	0·18	3rd	10	4	0	0	0	0	0	10	0	0	1	14	4	9	22	5	6	2	6	21	18	Cockle Park.
—	—	—	—	8·4	—	7·2	0·62	−2·04	0·16	3, 6	11	4	0	0	—	0	0	18	1	—	0	6	4	27	12	13	3	3	14	11	6	Shields.
3·01	−2·41	18	−14	9·0	—	8·9	0·88	−2·07	0·39	6th	8	5	0	0	0	0	0	22	0	0	0	14	19	19	6	5	5	3	9	3	24	Durham.
—	—	—	—	9·3	—	8·2	1·79	−1·16	1·12	14th	14	6	0	0	0	1	2	24	4	0	0	6	12	25	17	2	9	6	4	6	12	Rounton.
3·45	—	21	—	8·4	—	8·2	0·88	−1·72	0·41	23rd	12	7	0	0	0	0	0	18	2	—	1	42	0	10	18	2	9	0	14	0	40	Scarborough
3·61	−2·13	22	−13	7·7	—	7·2	0·44	−2·25	0·25	6th	6	3	0	0	0	0	1	17	1	—	0	2	0	31	3	11	3	8	1	21	15	York.
3·49	—	22	—	8·4	7·6	7·6	0·28	−1·62	0·07	5th	10	3	0	—	0	0	0	13	4	—	1	39	5	28	11	14	9	2	3	8	13	Spurn Head.
—	—	—	—	7·9	—	6·7	0·39	−1·98	0·15	21st	7	3	0	0	0	0	4	18	0	—	0	9	3	5	22	11	11	0	9	16	16	Lincoln.
3·45	—	21	—	8·6	—	—	0·60	—	0·25	21st	12	4	0	0	0	0	0	19	0	—	1	60	0	27	18	3	0	0	15	9	21	Skegness.
1·83	—	11	—	8·0	—	7·9	0·43	−2·04	0·14	5th	10	5	0	0	0	0	1	18	0	0	0	8	9	18	19	6	6	5	9	6	15	Hull.
4·61	—	29	—	6·9	6·7	6·8	3·27	+0·79	1·99	14th	13	8	0	0	0	1	1	12	1	0	0	38	2	29	18	8	4	8	9	5	10	Lowestoft.
3·38	—	21	—	9·3	—	8·7	1·07	—	0·26	14th	17	8	0	0	0	0	0	24	0	—	0	45	0	21	2	9	6	6	6	12	31	Cromer.
2·58	−3·90	16	−24	8·9	8·2	8·2	1·68	−1·27	0·50	22nd	13	7	0	0	0	1	0	21	0	0	0	32	3	30	24	5	2	0	8	10	11	L. Mas'gh'm.
4·78	—	30	—	7·5	7·0	7·4	2·31	−0·34	0·60	14th	10	6	0	—	0	0	0	11	1	—	0	8	1	25	12	5	7	5	7	13	18	Yarmouth.
3·85	−3·02	24	−19	8·9	—	7·7	3·05	+0·58	1·49	14th	14	8	0	0	0	1	0	21	0	—	0	0	3	31	8	9	3	9	10	8	12	Geldeston.
3·18	−3·53	20	−22	9·1	—	7·5	1·07	−1·40	0·24	14th	15	9	0	0	0	1	0	23	0	0	0	2	5	25	6	2	4	8	9	12	22	Cambridge.
4·25	—	27	—	8·5	8·3	7·6	1·62	—	0·46	14th	12	10	0	—	0	0	0	18	1	0	0	7	2	16	12	6	7	7	6	9	28	Clacton.
—	—	—	—	9·4	—	7·5	1·29	—	0·45	15th	15	9	0	0	0	1	0	21	2	—	0	3	22	17	25	5	1	0	8	9	6	Woburn.
3·28	—	21	—	9·2	8·6	7·3	2·05	−0·67	0·60	14th	13	11	0	0	0	1	0	21	0	0	0	0	18	6	20	14	4	0	9	17	5	Bennington.
3·42	—	22	—	8·9	—	7·3	1·39	−1·11	0·33	10th	11	7	0	0	0	1	1	19	0	0	0	0	40	8	13	3	0	0	8	15	6	Berkh'mst'd.
3·49	—	21	—	8·2	—	7·7	0·75	—	0·22	6th	9	6	0	0	0	0	1	18	0	0	0	0	3	25	6	20	4	12	5	13	5	Garforth.
3·57	—	22	—	6·9	6·6	6·0	0·96	—	0·24	6th	13	7	0	0	0	0	1	3	10	0	0	6	18	10	21	6	1	3	2	15	17	Huddersf'ld.
3·17	—	20	—	8·4	—	8·1	1·57	−1·13	1·01	6th	9	5	0	0	0	0	1	0	17	1	0	0	5	10	16	8	10	2	2	8	19	18	Sheffield.
2·92	−2·43	18	−15	8·8	8·7	7·5	0·99	−1·47	0·38	6th	8	7	0	0	0	0	1	1	22	0	0	0	2	10	25	14	5	4	0	10	11	14	Worksop.
3·80	—	24	—	7·5	5·9	6·2	1·39	−2·73	0·83	6th	13	9	0	0	0	0	0	3	12	0	0	0	0	6	8	9	6	8	1	7	14	34	Buxton.
2·44	—	15	—	9·4	—	6·9	0·66	−1·88	0·20	9th	11	5	0	0	0	0	1	1	21	6	0	0	0	8	28	16	8	5	6	3	9	8	10	Belvoir C.
3·05	—	19	—	8·6	—	—	1·01	−1·54	0·38	6th	13	8	0	0	0	0	0	2	25	0	0	0	9	0	12	36	3	6	0	12	6	18	Coventry.
2·25	—	14	—	9·5	8·2	—	0·93	—	0·29	10th	11	7	0	0	0	1	0	23	1	0	—	—	2	18	18	7	2	0	4	15	27	Thrapston.
2·55	—	16	—	8·5	8·4	6·7	0·80	−1·80	0·44	6th	12	4	0	—	0	0	0	17	1	0	0	11	0	15	14	21	3	1	14	18	7	Nottingham.
2·54	—	16	—	8·7	—	7·2	1·54	−1·02	0·87	6th	10	7	0	0	0	0	0	19	1	0	0	2	22	7	6	10	5	3	8	8	24	Birmingh'm.
3·18	−3·37	20	−21	8·2	—	—	0·77	−1·79	0·16	17th	12	8	0	0	0	3	—	—	2	0	0	9	6	19	20	6	2	3	11	12	14	Oxford.
							0·79	−1·74																						
4·57	—	29	—	8·4	—	7·4	0·44	−2·23	0·12	5th	11	5	0	—	0	0	0	18	0	—	0	8	8	21	8	16	3	0	3	25	9	Bath.
—	—	—	—	8·6	—	7·1	1·07	—	0·40	6th	12	7	0	0	0	0	0	16	0	0	0	2	0	17	9	13	0	2	10	9	33	Shrewsbury.
—	—	—	—	8·7	—	4·3	0·55	—	0·21	21st	10	6	0	0	0	0	2	11	0	0	0	0	45	10	5	0	3	0	9	9	12	Wistanstow.
—	—	—	—	7·8	—	5·9	0·87	—	0·25	17th	9	6	0	0	0	1	0	12	4	0	0	0	24	9	9	9	3	8	6	15	10	Bromyard.
3·49	—	22	—	8·2	—	6·0	1·30	−1·29	0·65	6th	12	6	0	0	0	1	2	15	0	0	0	17	10	11	9	1	9	0	12	12	29	Cheltenham.
—	—	—	—	9·5	—	8·0	0·79	−1·62	0·17	17th	12	7	0	0	0	0	0	23	0	—	0	3	34	30	3	2	1	3	6	5	9	Reading.
—	—	—	—	7·4	—	6·6	0·71	−1·79	0·28	15th	12	6	0	0	0	1	0	11	1	0	0	8	0	20	15	7	2	3	23	7	16	Salisbury.
3·75	—	24	—	8·5	7·6	—	2·73	—	0·71	14th	14	11	0	0	0	2	0	18	0	0	0	6	6	21	22	9	3	2	8	13	9	Grayshott.
3·74	—	24	—	8·2	6·8	—	3·15	—	1·20	14th	13	9	0	0	0	0	1	13	0	—	0	6	13	6	25	2	2	0	12	8	25	Midhurst.
5·10	−2·48	32	−16	—	—	—	3·51	+1·40	1·16	14th	13	11	—	—	—	—	—	—	—	—	0	8	—	—	—	—	—	—	—	—	Brighton.
5·00	—	32	—	7·8	—	—	1·64	−0·61	0·67	6th	13	8	0	0	0	1	4	19	0	0	0	51	0	18	12	15	3	3	0	12	30	Portsmouth.
5·19	−2·55	33	−16	6·3	—	6·5	1·49	−0·82	0·31	10th	14	10	0	0	0	1	3	10	0	—	0	2	10	9	32	3	7	2	15	6	9	Eastbourne.
4·60	—	29	—	7·9	—	6·3	2·05	—	0·55	14th	17	12	0	—	0	0	0	14	0	0	0	39	0	31	15	3	2	4	15	0	23	Dover.
—	—	—	—	7·4	7·1	6·9	1·72	+0·05	0·40	15th	11	9	0	—	0	2	1	11	0	—	0	54	1	17	31	5	2	4	16	4	13	Dungeness.
4·98	−2·76	32	−17	6·4	—	6·0	2·43	+0·22	0·59	14th	16	12	0	0	0	2	5	12	0	0	0	33	1	30	16	6	2	3	15	9	11	Hastings.
4·49	−2·74	28	−18	7·5	—	5·5	0·97	−1·61	0·27	10th	12	6	0	0	0	0	2	11	1	0	0	0	0	2	28	2	4	0	15	0	42	S'mpton.
5·00	−2·13	32	−13	7·6	6·9	—	0·99	−1·31	0·35	6th	13	7	0	0	0	0	0	12	0	—	0	8	0	14	6	27	3	5	19	15	4	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. P.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·998	—	0·051	67·0	52·9	60·0	−3·3	75	28, 31	47	8th	—	60·0	59·0	—	58·7	3·7	—	2·7	·392	—	·413	78	—	83
p Hampstead ...	9, –, 9	453	9·601	—	0·081	65·3	50·8	58·1	—	73	28th	44	8th	—	—	57·3	—	57·0	3·1	—	2·1	·380	—	·402	80	—	86
a Camden Square ...	9, –, 9	123	9·941	—	0·066	70·3	52·5	61·4	−3·0	79	28, 31	44	8th	61·3	57·4	59·8	—	58·5	4·1	—	2·7	·390	—	·408	77	—	83
a Westminster ...	9, 3, –	—	—	—	—	67·3	53·7	60·5	−3·4	75	28th	46	8th	—	—	59·1	65·1	—	3·2	6·1	—	·403	·417	—	80	68	—
a South Kensington*	9, 3, 6	70	9·986	—	0·064	66·9	53·9	60·4	—	75	28th	49	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·888	—	0·060	68·2	51·8	60·0	−2·4	76	12th	46	8th	—	59·6	58·7	64·6	58·1	3·5	6·5	2·7	·390	·399	·403	79	65	83
			9·887	+·071	0·059			58·5	−4·2																		
Kew ... ¶§	9, 3, 9	34	0·030	+·078	0·065	66·8	53·2	60·0	−2·8	74	28, 31	46	8th	60·9	57·2	58·7	65·1	59·5	3·8	7·0	3·2	·386	·398	·414	78	64	81
			0·030	+·079	0·066			59·5	−2·9																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	9·242	—	0·081	63·0	46·5	54·8	—	74	1st	35	8th	—	—	55·9	61·4	53·2	3·6	5·7	2·1	·352	·377	·352	78	69	86
p Poltalloch ... § ¶	9, –, 9	135	9·949	—	0·092	63·7	49·4	56·6	−1·2	74	26th	38	8th	—	—	57·2	—	54·8	3·3	—	2·0	·372	—	·373	79	—	88
a Glasgow	7, 1, 9	355	9·705	—	0·090	64·5	50·0	57·3	−0·7	73	3, 27, 30	41	7th	—	—	53·1	61·4	55·0	2·0	5·6	2·4	·349	·374	·365	86	69	85
p Rothesay ... § ¶	9, –, 9	76	0·083	—	0·080	66·5	51·0	58·8	+1·1	78	23rd	42	7th	—	55·1	58·4	—	54·8	4·2	—	2·5	·367	—	·359	75	—	84
a Colmonell ... § ¶	9, 3, –	150	9·957	—	0·121	63·9	48·5	56·2	−1·1	72	26th	39	24th	—	—	56·7	61·8	—	1·6	3·1	—	·412	·451	—	90	82	—
p Dumfries ... § ¶	9, –, 9	155	9·940	—	0·104	65·9	50·3	58·1	−1·5	78	29th	42	8th	60·5	57·9	57·8	—	55·8	4·1	—	2·4	·362	—	·378	76	—	84
p Cally ... § ¶	9, –, 9	120	—	—	—	66·9	48·4	57·7	−0·1	78	1st	40	8th	—	—	59·7	—	56·0	4·0	—	3·3	·391	—	·358	76	—	79
p Douglas ... ¶§	9, –, 9	284	9·793	—	0·096	62·1	51·1	56·6	−1·1	69	23,26,30	47	7th	—	—	56·3	—	54·5	2·5	—	1·5	·385	—	·384	85	—	90
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	0·051	—	0·095	63·6	52·7	58·2	−1·5	73	30th	46	7th	63·2	59·8	58·7	62·0	56·7	3·5	5·3	2·0	·394	·397	·403	79	72	87
p Manchester (City)	9, –, 9	195	9·879	—	0·083	6·62	53·4	59·8	—	77	29th	46	8th	60·1	57·5	58·6	—	58·6	3·6	—	3·4	385	—	·393	79	—	79
p „(WhitworthPk.)¶	9, –, 9	127	9·936	—	0·068	65·5	52·6	59·1	—	77	29th	44	9th	—	—	58·9	64·2	57·9	3·1	—	2·0	·403	—	·420	82	—	87
p Darwen	9, –, 9	730	9·302	—	0·081	64·0	49·6	56·8	—	74	1st	41	8th	60·7	54·9	57·0	—	55·0	3·3	—	2·1	·373	—	·376	80	—	87
p Egremont	9, –, 9	354	9·705	—	0·080	63·3	50·1	56·7	—	72	26, 30	42	8th	60·5	55·2	57·7	—	54·6	2·6	—	1·1	·403	—	·396	83	—	92
p Aspatria ... ¶§	9, –, 9	254	9·808	—	0·076	65·6	49·1	57·4	−1·3	73	2nd	41	8th	59·7	54·0	58·0	—	55·1	3·1	—	1·6	·394	—	·391	81	—	89
p Newton Rigg ¶§	9, –, 9	559	9·473	—	0·069	67·2	48·2	57·7	−0·2	77	29th	40	8th	60·8	54·8	57·0	—	56·2	2·7	—	2·1	·385	—	·391	83	—	87
p Stonyhurst ¶§	–, –, 9	363	—	—	—	64·6	51·2	57·9	−1·2	73	27th	43	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	0·008	—	0·081	63·6	52·3	58·0	−1·9	72	30th	43	8th	58·5	54·0	59·9	—	56.5	4·1	—	2·0	·395	—	·402	77	—	87
p Liverpool (Bid.) ¶	9, –, 9	202	9·876	—	0·088	62·6	52·8	57·7	−2·6	70	27,30,31	45	7th	—	—	57·1	—	56·6	3·2	—	2·4	·373	—	·389	80	—	84
p Llandudno... ¶§	9, –, 9	32	—	—	—	64·6	52·9	58·8	−1·7	71	30th	48	7th	—	—	58·8	—	58·3	3·0	—	3·4	·405	—	·386	82	—	79
a Holyhead ... ¶	7, 1, 9	48	0·080	+·135	0·096	62·1	53·5	57·8	−1·1	70	30th	50	9th	—	—	55·1	59·7	56·0	1·4	3·2	1·3	·394	·414	·411	90	80	91
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	66·1	49·2	57·7	−2·9	76	27th	43	8, 9	57·4	54·3	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	0·072	—	0·098	63·9	50·6	57·3	—	74	30th	44	23, 29	60·4	57·0	58·6	—	55·5	1·7	—	0·7	·440	—	·421	89	—	96
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·467	—	0·091	66·1	48·5	57·3	−2·1	76	1, 28, 29	37	8th	59·0	54·2	57·5	—	—	2·8	—	—	·392	—	—	82	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·933	+·115	0·095	62·7	52·8	57·8	−1·1	71	29, 31	47	8th	—	—	55·5	60·1	56·2	0·8	2·1	0·7	·418	·452	·431	95	87	96
a Portland Bill ¶	7, 1, 9	23	0·040	+·065	0·075	64·4	55·3	59·9	−1·8	74	23rd	52	9th	—	—	57·9	62·1	58·9	2·9	4·3	3·2	·394	·420	·401	82	75	80
p Plymouth ... ¶§	9, 3, 9	116	9·960	—	0·079	67·3	54·4	60·9	−0·6	75	29th	50	7, 21	64·2	—	61·5	65·3	59·2	4·0	6·3	3·0	·419	·414	·411	77	67	82
Falmouth ... ¶§	7, 1, 6	183	9·913	+·086	0·101	65·3	55·1	60·2	−0·4	69	21,22,23	49	8th	—	59·9	58·6	63·5	61·2	2·5	4·9	3·8	·424	·428	·422	85	74	78
p Cardiff	9, –, 9	216	9·857	—	0·091	67·7	52·7	60·2	−1·2	76	28, 29	48	9, 15	61·6	57·8	59·9	—	58·5	4·4	—	3·4	·384	—	·389	74	—	79
a Newquay ... §	7, –, 6	161	9·953	+·090	0·093	62·7	53·5	58·1	−2·0	73	29th	46	28th	61·5	—	58·4	—	60·6	2·5	—	3·3	·413	—	·424	84	—	81
p Woolacombe ...	9, –, 9	120	9·980	—	0·103	65·1	54·9	60·0	—	74	29th	51	8, 9, 21	—	—	60·3	—	59·4	3·2	—	2·9	·419	—	·414	81	—	83
a Princetown ...	9, 3, –	1360	8·605	—	—	62·5	50·2	56·4	—	73	28th	45	7, 8, 9	—	—	56·2	60·9	—	3·0	5·3	—	·367	·375	—	81	70	—
p Sheepstor	9, 3, 9	730	9·298	—	0·074	65·6	48·8	57·2	—	76	28th	40	23rd	—	—	58·6	63·3	54·4	3·1	5·0	1·5	·403	·425	·384	82	73	90
p Teignmouth ...	9, 3, 9	20	0·062	—	0·078	67·6	54·8	61·2	—	75	23rd	50	6th	—	—	61·4	65·0	61·5	5·0	6·3	4·8	·394	·414	·401	78	68	73
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·861	+·204	0·116	58·3	51·1	54·7	−2·5	63	26th	48	7th	—	—	53·6	57·1	55·8	0·9	1·1	1·1	·386	·433	·414	94	92	93
West. *a* Blacksod Point ¶	7, 1, 9	41	0·108	+·201	0·153	61·5	52·2	56·9	−1·2	71	24th	47	8th	—	—	55·7	59·7	55·9	1·5	2·7	1·4	·401	·432	·407	90	86	92
West. *p* Markree Castle ¶§	9, –, 9	127	0·004	—	0·136	63·6	48·7	56·2	−1·4	74	26th	37	8th	59·8	55·0	57·9	—	54·2	2·8	—	1·5	·397	—	·378	83	—	90
East. *a* Donaghadee ¶	7, 1, 9	40	0·065	+·168	0·108	60·4	51·6	56·0	−1·7	66	17th	48	7, 8, 10	—	—	53·7	58·7	54·8	1·4	3·1	1·9	·373	·401	·376	90	81	88
East. *p* Armagh ... ¶§	9, –, 9	202	9·891	—	0·105	64·6	49·2	56·9	−1·5	73	26th	40	8th	61·0	56·3	58·2	—	53·9	3·5	—	2·0	·383	—	·364	79	—	87
East. *a* Belfast	9, –, 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	65·3	48·6	57·0	—	76	27th	35	8th	59·2	55·1	58·6	—	55·5	3·4	—	1·8	·391	—	·390	79	—	88
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	65·9	52·0	59·0	—	74	23rd	43	8th	60·6	56·8	59·7	—	58·2	3·9	—	3·0	·400	—	·405	78	—	83
East. *p* „ (Phœnix Pk.)§	9, –, 9	159	9·954	—	0·122	65·5	47·6	56·6	−1·8	74	1st	35	8th	—	—	58·8	—	54·5	3·8	—	1·9	·385	—	·376	78	—	88
East. *p* „ (City)... ¶	9, –, 9	53	0·059	—	0·114	65·5	52·9	59·2	−1·3	72	2nd	44	8th	—	—	58·7	—	58·3	3·6	—	2·9	·390	—	.404	79	—	83
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·933	+·151	0·125	65·6	49·5	57·6	−1·5	76	27th	38	8th	59·6	56·7	53·4	63·7	63·5	1·3	5·7	5·3	·371	·406	·414	91	68	70
West. Valencia ... ¶§	9, 3, 9	45	0·117	+·174	0·164	64·0	53·3	58·7	−0·3	75	1st	45	8th	—	—	59·1	62·4	58·3	2·6	4·0	2·4	·426	·440	·418	85	78	85
			0·116	+·175	0·165			58·6	−0·3																		
West. *a* Roche's Point ¶	7, 1, 6	42	0·095	+·157	0·145	64·5	52·6	58·6	−1·2	70	2, 31	48	8th	—	—	56·1	62·1	62·0	1·6	3·6	3·0	·404	·441	·456	89	79	82
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	0·080	—	0·131	66·2	50·3	58·3	—	76	27th	39	8th	62·3	—	59·0	64·4	57·5	2·9	5·1	1·9	·410	·435	·416	83	72	88
11. ENGLISH CHANNEL.																											
a Scilly .. ¶§	7, 1, 9	152	9·943	+·101	0·106	64·0	55·0	59·5	−1·3	69	27,28,29	51	8th	—	—	58·1	62·5	57·2	1·9	4·4	1·7	·426	·423	·418	87	75	89
a Jersey ... ¶§	7, 1, 9	36	0·049	+·056	0·085	66·8	55·4	61·1	−1·6	75	29th	51	2, 5, 21	—	—	59·4	64·2	59·7	2·0	4·7	2·4	·443	·443	·436	88	74	86
p Guernsey (Brooklyn).	9, –, 9	311	9·754	—	0·084	64·6	54·3	59·5	−1·9	70	23rd	51	2nd	61·8	59·4	59·4	—	56·7	2·5	—	1·4	·431	—	·418	85	—	90
a Gibraltar ...	7, 1, 9	53	9·977	—	0·033	83·4	65·6	74·5	—	93	24th	62	8th	—	—	67·9	79·2	70·3	3·6	10·5	4·7	·549	·549	·557	80	56	75

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of JULY, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of											WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.													Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
3·72	—	23	—	8·8	—	6·9	1·94	—	0·60	10th	10	9	0	0	0	1	1	15	0	0	0	2	0	27	22	5	5	0	13	5	16	Tottenham.
3·53	—	22	—	9·0	—	6·9	2·54	—	0·81	14th	11	11	0	0	0	1	0	19	0	0	0	2	33	13	24	3	2	2	9	4	3	Hampstead.
3·25	—	20	—	8·8	—	—	2·31	−0·26	0·56	14th	12	11	0	0	0	1	2	25	0	0	—	—	15	27	24	0	3	0	0	9	15	Camden Sq.
2·99	−2·85	19	−18	—	—	—	1·47	−0·91	0·55	14th	11	8	0	—	0	0	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
2·86	—	18	—	8·1	—	8·0	1·60	—	0·52	14th	11	9	0	—	0	1	2	20	0	0	0	5	4	22	25	10	1	2	12	7	10	S.Kensingtn
3·05	−4·08	19	−25	9·0	7·9	7·6	2·12	−0·28	0·82	10th	12	11	0	0	0	1	0	21	0	0	0	1	12	19	23	11	3	1	10	9	5	Greenwich.
3·39	−3·32	21	−21	8·5	7·6	6·7	1·91	−0·46	0·92	14th	13	11	0	0	0	1	0	18	0	0	0	7	20	25	11	5	1	2	10	6	13	Kew.
5·02	—	30	—	7·5	7·6	6·9	0·99	—	0·32	6th	11	5	0	0	0	0	0	5	0	—	0	20	18	12	21	3	1	7	11	8	12	Eskdalemuir
—	—	—	—	6·8	—	7·0	1·70	−2·48	0·61	13th	11	8	0	0	0	0	4	17	1	—	0	10	10	12	21	0	0	15	19	11	5	Poltalloch.
6·30	+1·65	38	+10	6·8	6·2	6·4	1·41	−1·94	0·47	6th	8	6	0	—	1	1	0	9	0	0	0	3	8	4	15	16	2	1	9	30	8	Glasgow.
—	—	—	—	5·6	—	6·4	1·71	−2·30	0·42	6th	12	8	0	0	0	0	5	10	0	—	0	7	25	10	5	17	0	1	0	14	21	Rothesay.
—	—	—	—	6·6	—	—	0·97	−2·21	0·19	21st	12	9	0	0	0	0	4	12	2	0	0	12	3	24	12	0	0	3	6	30	15	Colmonell.
5·41	—	33	—	5·7	—	5·7	0·57	−2·76	0·30	6th	8	4	0	0	0	0	4	10	0	0	0	4	0	4	30	0	5	3	19	8	24	Dumfries.
—	—	—	—	—	—	—	0·87	−2·86	0·32	6th	11	7	0	0	0	0	—	—	0	—	0	6	0	15	1	2	12	13	15	0	35	Cally.
6·91	+0·49	42	+ 3	7·0	—	6·4	1·35	−1·82	0·35	8th	13	11	0	0	0	2	2	13	5	0	0	26	1	18	4	6	9	2	8	12	33	Douglas.
6·01	−0·41	37	− 3	7·9	5·9	6·0	1·33	−1·66	0·55	6th	14	8	0	0	0	1	2	12	0	0	0	42	4	8	6	11	7	2	3	19	33	Southport.
3·77	—	23	—	4·5	—	5·3	0·98	−2·55	0·56	6th	11	4	0	0	0	0	5	0	0	0	0	2	3	8	9	3	3	3	9	33	22	Manchester.
4·06	—	25	—	6·4	6·3	6·0	1·28	—	0·75	6th	11	8	0	0	0	0	7	14	0	—	0	5	4	8	6	11	5	8	11	29	11	Whitwth Pk.
4·56	—	28	—	7·9	—	7·8	1·55	—	0·39	17th	16	10	0	0	0	0	0	14	0	0	0	8	5	6	9	2	7	6	5	28	25	Darwen
5·01	—	31	—	6·5	—	5·6	1·14	—	0·18	13th	14	9	0	0	0	0	6	14	2	0	0	3	18	25	2	0	3	12	3	5	25	Egremont.
6·44	—	39	—	6·8	—	6·7	1·37	−2·61	0·91	6th	12	6	0	0	0	0	2	12	0	0	0	2	9	18	10	6	2	2	13	6	27	Aspatria.
5·65	−0·09	34	− 1	6·6	—	6·9	1·08	−2·09	0·54	6th	13	10	0	0	1	0	3	11	3	0	0	6	22	8	5	3	10	6	13	18	8	N'wt'n Rigg.
4·57	−1·20	28	− 8	—	—	—	1·49	−2·70	0·52	17th	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
6·45	+0·39	40	+ 3	7·1	—	7·6	1·36	−1·65	0·43	6th	11	7	0	0	0	0	2	15	0	0	0	33	0	5	6	12	9	3	9	18	31	Blackpool.
5·73	—	35	—	7·8	—	6·0	1·63	−1·27	0·71	6th	14	10	0	0	0	2	2	13	0	—	0	11	5	10	3	13	5	2	5	28	22	Liverpool.
5·87	−0·10	36	− 1	7·1	—	5·5	1·67	−0·89	0·42	21st	13	7	0	0	0	0	4	11	0	—	0	2	3	9	3	13	0	5	6	48	6	Llandudno.
6·36	—	39	—	7·1	5·6	6·0	1·52	−1·07	0·48	21st	12	11	0	—	0	1	2	8	15	—	0	21	0	32	13	6	0	5	14	6	17	Holyhead.
4·84	—	30	—	—	—	—	1·21	—	0·38	21st	10	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
4·96	—	37	—	7·3	—	5·3	1·72	—	0·42	21st	14	9	0	0	0	0	6	12	1	0	0	2	73	8	0	0	0	4	6	2	0	Dwyran.
5·23	—	33	—	7·4	—	—	1·06	—	0·35	17th	12	6	0	0	0	0	4	18	0	?0	0	0	15	12	15	15	0	0	12	12	12	Llangamch.
6·44	−0·21	41	− 1	6·6	5·0	4·1	0·48	−2·07	0·13	14th	9	5	0	—	0	0	2	1	7	—	0	17	1	27	13	6	2	3	8	14	19	Pembroke.
—	—	—	—	6·2	5·2	5·3	0·39	—	0·16	8, 15	4	3	0	—	0	0	2	0	0	—	0	41	0	4	19	16	2	1	8	23	20	Portl'nd Bill
6·43	−0·38	41	− 2	7·1	5·9	6·6	0·40	−2·49	0·20	8th	5	4	0	0	0	1	2	11	0	0	0	17	9	22	8	8	3	7	13	10	13	Plymouth.
7·78	+0·43	50	+ 3	5·8	5·0	4·8	0·31	−2·73	0·13	8th	7	3	0	0	0	0	9	7	0	—	0	5	11	32	4	8	4	2	4	9	19	Falmouth.
5·69	—	36	—	—	—	—	0·60	−2·86	0·28	6th	8	5	0	0	0	1	—	—	0	0	0	20	22	0	21	12	4	0	2	6	26	Cardiff.
6·55	−0·35	42	− 2	6·0	—	4·7	0·66	−1·92	0·26	14th	10	4	0	—	0	1	11	12	9	—	0	33	9	23	1	9	5	0	5	12	29	Newquay.
6·18	−0·37	39	− 2	5·4	—	4·0	0·45	−2·43	0·13	7, 21	10	4	0	0	0	0	8	7	0	—	0	2	9	14	12	10	0	0	3	22	23	Woolac'mbe.
—	—	—	—	7·6	6·7	—	1·13	—	0·19	19th	15	9	0	0	0	0	2	13	9	—	0	17	0	7	15	11	6	0	13	2	39	Princetown.
—	—	—	—	6·8	5·5	5·4	0·59	—	0·11	14th	13	10	0	0	0	1	7	15	7	—	2	18	14	10	5	17	0	2	7	8	30	Sheepstor.
6·35	—	40	—	6·3	5·1	4·8	0·40	—	0·23	7th	5	3	0	0	0	0	4	6	2	0	0	20	3	17	6	11	12	8	4	8	24	Teignmouth
—	—	—	—	7·3	6·5	6·6	0·78	−2·11	0·19	17th	17	8	0	—	0	0	0	8	8	—	0	29	2	29	7	6	3	6	3	7	30	Malin Head.
—	—	—	—	7·9	6·9	7·7	1·83	−1·19	0·42	8th	19	16	0	—	0	0	1	18	7	0	0	7	1	30	17	1	2	3	11	10	18	Blacksod Pt.
4·74	+0·58	29	+ 3	7·7	—	6·2	1·63	−1·89	0·37	8, 18	12	10	0	0	0	0	5	17	0	1	0	0	45	22	0	0	2	8	0	0	16	Markree Cas.
—	—	—	—	6·2	4·5	5·5	1·17	−1·80	0·33	21st	14	10	0	—	0	0	1	5	2	—	0	8	0	27	4	1	7	5	8	11	30	Donaghadee.
4·70	+0·09	29	+ 1	7·9	—	6·6	1·56	−1·63	0·47	21st	12	7	0	0	0	0	5	20	0	0	0	0	68	7	3	1	0	2	11	1	0	Armagh.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·1	—	4·7	1·27	—	0·27	8th	12	9	0	0	0	0	7	1	0	—	0	8	12	27	3	0	0	0	12	11	28	Newtown-forbes.
4·85	—	30	—	7·6	—	5·6	0·60	—	0·14	18th	10	7	0	0	0	0	4	15	0	0	0	2	21	0	16	3	0	0	15	14	24	Dublin T. C.
4·89	−0·56	30	− 3	7·5	—	5·7	0·80	−2·04	0·20	18th	13	7	0	0	0	0	3	12	0	1	0	0	25	7	9	8	0	1	6	19	18	Phœnix Pk.
—	—	—	—	7·1	—	5·4	0·63	−2·05	0·16	18th	13	6	0	0	0	1	5	12	1	0	0	5	1	24	18	6	3	2	6	14	19	Dublin (City).
4·57	+0·09	28	0	6·8	6·4	6·6	1·02	−2·00	0·21	8, 17	15	6	0	—	0	0	0	1	6	0	0	10	1	24	11	3	0	7	10	11	26	Birr Castle.
6·39	+1·45	40	+ 9	6·6	6·6	6·5	1·05	−2·83	0·42	8th	15	7	0	0	0	0	3	13	0	—	0	23	18	15	4	3	1	2	11	14	25	Valencia.
—	—	—	—	6·2	6·7	4·9	0·32	−2·74	0·16	8th	8	1	0	—	0	0	7	10	1	—	0	20	1	35	5	4	7	13	13	3	12	Roche's Pt.
5·17	—	32	—	7·1	6·7	6·4	0·76	—	0·39	8th	9	6	0	0	0	0	4	15	3	0	0	29	13	16	10	3	2	4	3	19	23	Limerick.
6·21	−0·82	40	− 5	6·2	6·5	5·7	0·27	−2·11	0·11	8th	8	3	0	—	0	0	1	3	2	—	0	30	5	17	13	14	5	0	1	12	26	Scilly.
6·18	−1·88	40	−12	7·5	6·6	5·4	0·60	−1·70	0·28	9th	9	5	0	—	1	2	0	8	2	—	0	28	0	8	14	18	1	1	4	32	15	Jersey.
6·05	−2·53	39	−16	7·4	—	4·1	2·99	+0·64	2·19	29th	7	4	0	0	1	2	4	9	10	0	0	9	11	3	30	3	0	0	9	19	18	Guernsey.
—	—	—	—	3·8	1·4	1·8	0·01	—	0·01	7th	1	0	0	0	0	0	17	1	0	0	0	23	3	0	0	35	3	0	2	26	24	Gibraltar.

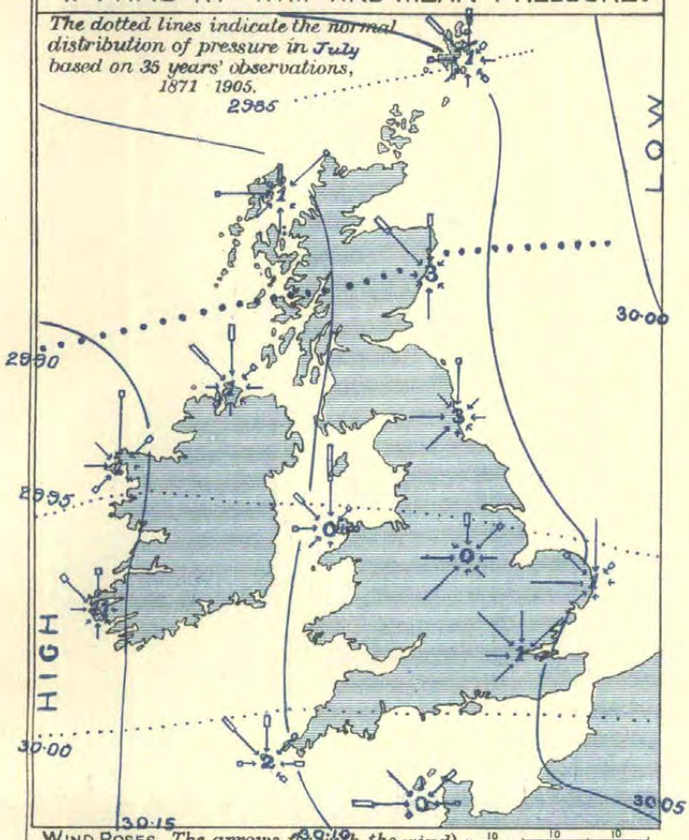
TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JULY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
	Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																									
p Baltasound ... ... §	31	56·9	49·5	53·2	—	60	13th	45	8th	55·2	—	0·93	—	0·13	27th	15	0	0	0	7	—	4·47	—	25	—
a Fortrose	69	62·2	50·6	56·4	—	71	3rd	43	8th	—	—	0·90	—	0·47	13th	7	0	0	0	0	—	5·50	—	32	—
1. SCOTLAND, E.																									
a Crathes ... ... §§	140	65·2	50·1	57·7	—	72	2nd	37	9th	58·5	54·2	1·83	—	1·21	14th	10	0	0	1	0	1	3·88	—	23	—
p Stonehaven	86	62·6	50·0	56·3	—	74	2nd	40	9th	—	—	0·77	—	0·39	6th	8	0	0	0	1	—	4·54	—	27	—
p Balruddery ... §§	276	67·7	48·8	58·3	—	75	23rd	39	7th	—	—	0·56	—	0·40	6th	6	0	0	0	0	—	5·54	—	33	—
a Carnoustie	39	63·4	50·0	56·7	—	71	23rd	42	6, 8, 9	—	—	0·58	—	0·24	6th	10	0	0	0	0	—	5·26	—	31	—
a St. Andrews	20	64·3	50·1	57·2	—	73	2, 3	40	7th	58·9	53·9	0·76	—	0·30	6th	5	0	0	0	0	0	4·71	—	28	—
2. ENGLAND, N.E.																									
a Alnwick Castle ... ¶	210	63·0	48·8	55·9	− 2·2	72	2nd	39	9th	—	—	0·55	−2·26	0·17	5th	12	—	—	—	—	—	—	—	—	—
a Bellingham	848	63·4	47·6	55·5	—	74	27th	41	8, 20	—	—	0·97	—	0·31	3rd	10	0	0	0	1	—	—	—	—	—
a Tynemouth	90	62·5	49·8	56·2	—	69	18th	43	8th	57·6	54·3	0·57	—	0·17	6th	8	0	0	0	0	0	3·37	—	20	—
a Chopwellwood	445	63·5	47·2	55·4	—	72	30th	39	9th	—	—	1·18	—	0·31	6th	12	0	0	0	1	2	2·81	—	17	—
a Ushaw	599	62·8	48·7	55·8	—	72	29th	42	8, 9	—	—	1·00	—	0·48	6th	7	0	0	0	0	—	—	—	—	—
a Ampleforth	349	63·7	49·6	56·7	—	72	29th	42	8th	—	—	0·40	—	0·24	6th	8	0	0	0	0	—	—	—	—	—
a West Witton	605	63·4	49·7	56·6	—	72	27, 29	43	8, 26	58·5	53·4	1·09	—	0·85	6th	10	0	0	0	3	0	—	—	—	—
a Fulbeck ... ... ¶	180	65·9	49·5	57·7	− 3·3	75	29th	40	8th	—	—	0·59	−1·84	0·22	6th	10	—	—	—	—	0	—	—	—	—
a Rauceby ... ... §	124	65·1	49·7	57·4	—	73	29th	40	9th	60·0	56·0	0·81	−1·76	0·51	6th	9	0	0	0	1	—	2·82	—	18	—
3. ENGLAND, E.																									
a Norwich	93	64·0	50·7	57·4	—	74	14th	43	7th	59·7	—	2·61	—	1·19	14th	14	0	0	2	0	0	3·48	—	22	—
a Peterborough (Eye) ...	16	65·4	50·5	58·0	—	74	29th	41	8th	—	—	0·56	—	0·10	14th	16	0	0	0	1	—	—	—	—	—
a Ridgewell	269	64·9	49·4	57·2	—	73	31st	40	8th	—	—	1·56	—	0·36	14th	16	0	0	0	1	—	—	—	—	—
a Ipswich (Copdock) ...	164	64·8	49·8	57·3	—	71	14th	40	8th	59·7	57·0	2·31	—	0·54	10th	15	0	0	0	0	0	3·68	—	23	—
a Felixstowe	19	64·1	52·2	58·2	− 3·8	74	17th	43	8th	—	—	2·47	—	0·91	14th	15	—	—	—	—	—	4·82	—	30	—
a Walton-on-Naze	68	62·7	51·6	57·2	—	70	17th	42	8th	—	—	2·01	—	0·67	14th	13	0	0	1	1	0	3·98	—	25	—
a Halstead	139	66·5	50·6	58·6	—	74	31st	41	8th	—	—	1·92	—	0·44	5th	14	0	0	0	0	—	—	—	—	—
a Chelmsford	134	66·6	49·6	58·1	—	75	28th	39	8th	—	—	1·70	—	0·46	14th	13	0	0	0	0	—	—	—	—	—
p Hemel Hempstead ...	535	64·6	48·7	56·7	—	75	29th	40	8th	—	—	1·22	—	0·24	14th	14	0	0	0	0	1	—	—	—	—
a Rothamsted ... ¶§	424	65·5	49·9	57·7	− 3·4	74	29th	41	8th	—	—	1·13	−1·50	0·38	14th	14	—	—	—	—	—	3·00	−3·94	19	−25
a Shoeburyness	13	64·6	52·2	58·4	− 4·9	70	12, 13	43	8th	—	—	2·55	+0·74	0·80	7th	14	0	1	0	0	—	—	—	—	—
a Southend	90	66·1	52·8	59·5	—	73	12th	45	8th	61·8	—	2·08	−0·04	0·66	14th	14	—	—	—	—	0	3·92	—	25	—
4. MIDLAND COUNTIES.																									
a Harrogate ... ... ¶§	476	62·8	49·3	56·1	− 2·7	72	29th	41	8th	57·1	55·4	1·02	−1·74	0·46	6th	11	0	0	0	0	0	3·39	—	21	—
a Bradford	439	63·5	50·6	57·1	—	73	28th	42	8th	58·3	55·0	0·72	—	0·26	6th	11	0	0	0	0	0	4·23	—	26	—
a Meltham	513	63·9	50·1	57·0	—	72	27, 29	40	8th	57·2	—	1·32	—	0·56	6th	12	—	—	—	—	0	—	—	—	—
a Cheadle ... ... ¶	646	64·4	49·7	57·1	− 1·8	74	27, 28	43	27th	—	—	0·78	−2·29	0·55	6th	7	—	—	—	—	0	—	—	—	—
a Wellington	207	66·8	48·5	57·7	—	77	1, 29	41	28th	—	—	1·37	—	0·45	6th	11	0	0	0	0	—	—	—	—	—
a Bawtry ... ... ¶	65	66·5	50·6	58·6	− 2·4	79	29th	44	8, 9, 28	—	—	0·57	−1·99	0·23	6th	8	—	—	—	—	—	—	—	—	—
a Matlock	636	64·8	50·1	57·5	—	79	29th	39	9th	—	—	1·02	—	0·59	6th	9	0	0	0	0	—	2·93	—	18	—
a Belper	222	66·3	50·8	58·6	—	79	29th	42	7, 9	—	—	0·86	—	0·62	6th	6	0	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...	280	64·5	51·0	57·8	—	74	29th	40	9th	—	—	0·99	−1·83	0·69	6th	6	0	0	1	0	—	—	—	—	—
a Mayfield (Staffs)	374	65·0	49·5	57·3	—	78	29th	37	9th	—	—	0·74	—	0·46	6th	7	0	0	1	1	0	3·24	—	20	—
a Strelley	377	65·0	50·6	57·8	− 2·8	75	29th	41	9th	58·2	—	0·93	−1·77	0·51	6th	7	0	0	0	1	—	2·55	−2·90	16	−14
a Kingston-on-Soar... ...	125	66·0	50·0	58·0	—	78	29th	39	9th	58·7	—	0·79	—	0·64	6th	8	0	0	0	1	—	—	—	—	—
a Sparkhill	425	66·9	50·6	58·8	—	80	29th	43	9th	—	—	1·56	—	0·84	6th	8	0	0	0	0	0	—	—	—	—
p Rugby	379	66·9	49·6	58·3	− 2·4	78	28, 29	43	9, 21	—	—	0·91	—	0·26	6th	11	0	0	0	0	?	—	—	—	—
a Raunds ... ... ¶	204	66·7	50·5	58·6	− 3·3	77	29th	41	8th	59·8	56·0	0·77	—	0·28	10th	11	0	0	0	1	0	2·26	—	14	—
a Malvern	520	66·7	52·7	59·7	—	78	29th	48	8th	—	—	0·93	—	0·29	6th	10	—	—	—	—	—	4·27	—	27	—
a Ross...	214	69·1	52·5	60·8	—	81	29th	44	8th	—	—	0·73	—	0·16	17th	10	0	0	0	2	—	—	—	—	—
a Hereford ... ... ¶	291	68·0	50·3	59·2	− 2·0	79	29th	43	8, 15	—	—	0·73	−1·65	0·15	9, 17	10	0	0	0	0	0	—	—	—	—
a Leamington	165	66·3	52·3	59·3	—	77	28, 29	45	8th	64·4	58·1	1·53	—	0·62	6th	12	0	0	0	0	0	3·20	—	20	—
a Cirencester... ... ¶§	446	68·1	52·3	60·2	− 0·1	79	29th	44	6, 8	60·2	56·7	0·93	−1·92	0·50	6th	10	—	—	—	—	0	3·75	−2·67	24	−16
a High Wycombe	249	67·3	50·8	59·1	—	77	27th	44	8, 9	—	—	0·92	—	0·14	5th	14	0	0	0	1	—	—	—	—	—
5. ENGLAND, S.E.																									
a Malmesbury	235	68·4	51·1	59·8	—	78	29th	45	8, 20, 28	—	—	1·10	—	0·52	6th	9	0	0	0	0	0	—	—	—	—
a Wokingham	216	67·1	46·4	56·8	—	76	28, 29	37	21st	—	—	0·77	—	0·22	17th	11	0	0	0	0	—	—	—	—	—
a Marlborough ... ¶§	424	66·9	48·8	57·9	− 2·3	82	28th	42	11th	—	56·3	2·10	−0·60	0·58	6th	10	—	—	—	—	0	3·45	−2·68	22	−17
a Bucklebury	409	66·3	50·3	58·3	—	75	28th	43	24th	—	—	2·34	—	0·75	14th	12	0	0	0	0	0	—	—	—	—
a New Malden	39	68·4	52·0	60·2	—	76	29, 31	42	8th	61·9	58·1	1·95	—	0·88	14th	10	0	0	1	0	0	3·12	—	20	—
a Croydon (Addington) ...	472	64·7	50·9	57·8	—	72	28, 31	43	8th	—	—	1·53	—	0·42	14th	16	0	0	1	0	—	—	—	—	—
a Wallington	144	66·5	51·4	59·0	—	73	12, 29	41	8th	61·5	60·1	3·24	—	2·03	14th	14	0	0	2	1	0	—	—	—	—
a Woking	180	68·3	51·0	59·7	—	78	31st	43	8th	61·7	—	1·23	—	0·30	14th	10	—	—	—	—	0	—	—	—	—
a Margate ... ... ¶§	35	64·5	54·2	59·4	− 3·0	80	29th	48	9th	59·5	56·2	1·35	−0·63	0·29	5th	10	0	0	2	0	0	3·55	−2·69	22	−20
a Aldershot	231	65·7	50·6	58·2	—	75	28th	42	8th	—	—	1·76	—	0·38	7th	15	0	0	4	2	—	—	—	—	—
a Wisley ... ... ¶§	150	67·1	51·4	59·3	− 4·2	75	28, 29	43	8th	61·5	58·0	1·70	—	0·72	14th	11	0	0	2	0	0	3·88	—	24	—
a Basingstoke	289	66·3	51·3	58·8	—	75	28, 29	43	8th	59·8	56·5	1·87	—	0·62	14th	9	0	0	2	0	0	—	—	—	—
a Sevenoaks	509	64·6	50·7	57·7	—	72	29th	42	8th	59·8	56·2	3·22	—	1·12	10th	15	0	0	2	0	0	—	—	—	—
a Tunbridge Wells ... ¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield	320	65·6	51·2	58·4	—	72	29th	42	8th	—	—	2·19	—	0·55	14th	15	0	0	3	0	0	—	—	—	—
Ramsgate	168	63·2	52·6	57·9	—	71	12th	46	20th	—	—	1·90	—	0·55	14th	10	—	—	—	—	—	4·76	—	30	—
a Folkestone...	121	64·4	54·1	59·3	—	74	31st	46	8th	—	55·0	1·75	−0·43	0·47	14th	13	0	0	0	0	—	4·72	—	30	—
a Bexhill	27	65·5	53·8	59·7	—	75	31st	46	8th	62·2	—	2·23	—	0·66	14th	14	0	0	1	1	0	4·89	—	31	—
a Worthing ... ... §	36	66·2	52·9	59·6	− 1·9	75	31st	47	9th	62·6	58·8	3·08	+1·01	0·99	10th	13	0	0	1	0	0	4·78	—	30	—
a Bognor	20	65·5	52·9	59·2	—	75	31st	48	8, 9, 23	—	56·8	1·10	—	0·28	14th	11	0	0	0	1	—	4·75	—	30	—
a Selsey Bill	21	66·0	52·2	59·1	—	75	31st	46	8th	—	—	1·44	—	0·42	6th	12	0	0	0	0	0	4·66	—	30	—
a Totland Bay	140	66·1	54·0	60·1	− 0·6	74	31st	50	8th	—	—	0·72	−1·65	0·23	9th	13	0	0	2	0	0	5·20	—	33	—
a Sandown	20	67·5	54·0	60·8	—	72	4, 31	49	23rd	—	—	1·24	—	0·29	9th	13	—	—	—	—	—	5·07	—	32	—
p Bournemouth	145	68·4	51·9	60·2	—	74	31st	48	9, 24, 29	61·5	59·7	1·37	—	0·89	15th	12	—	—	—	—	—	4·59	—	29	—

MONTHLY WEATHER CHARTS, JULY, 1913

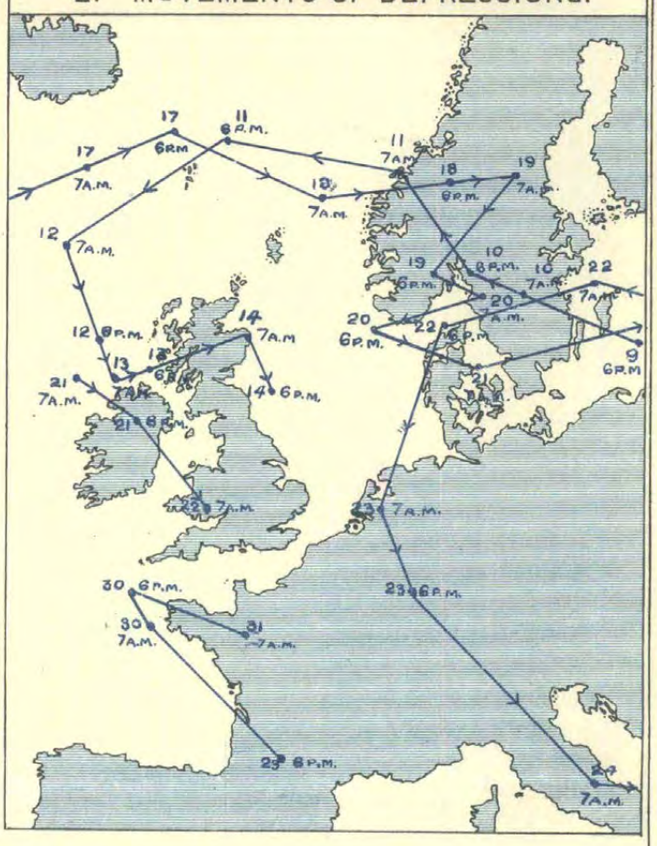
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in July based on 35 years' observations, 1871–1905.



WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* 10 10 10 — LIGHT MODERATE STRONG — 30 Obsns. 1 Inch

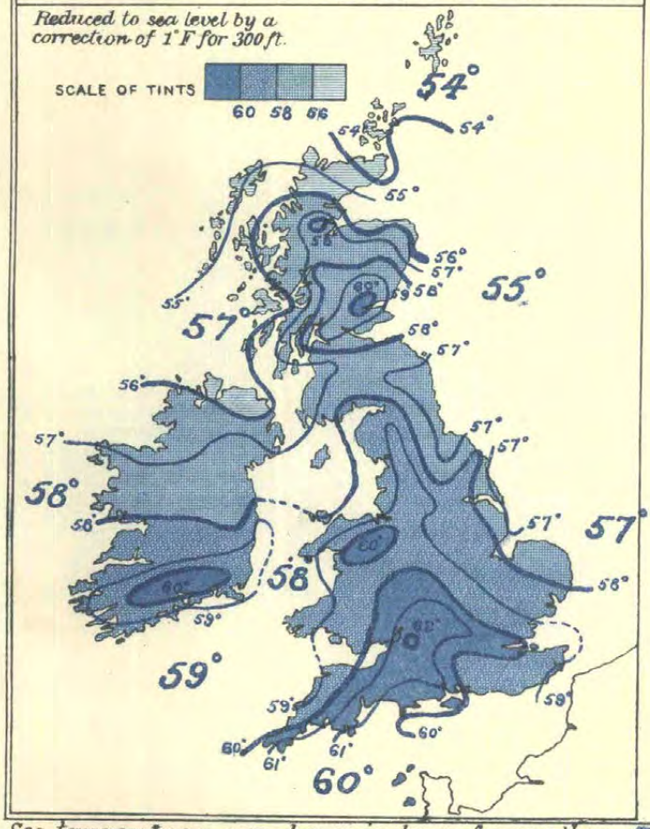
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

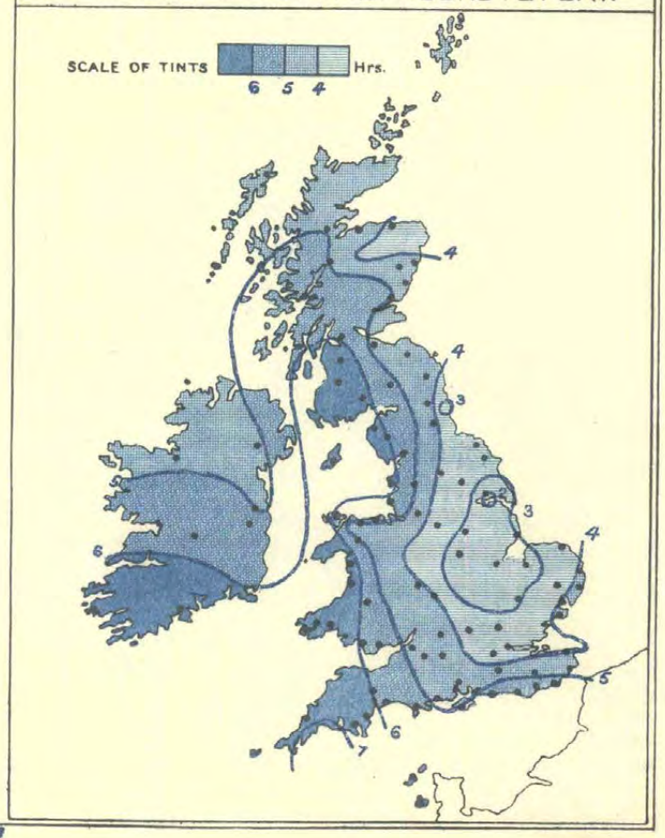
SCALE OF TINTS 60 58 56



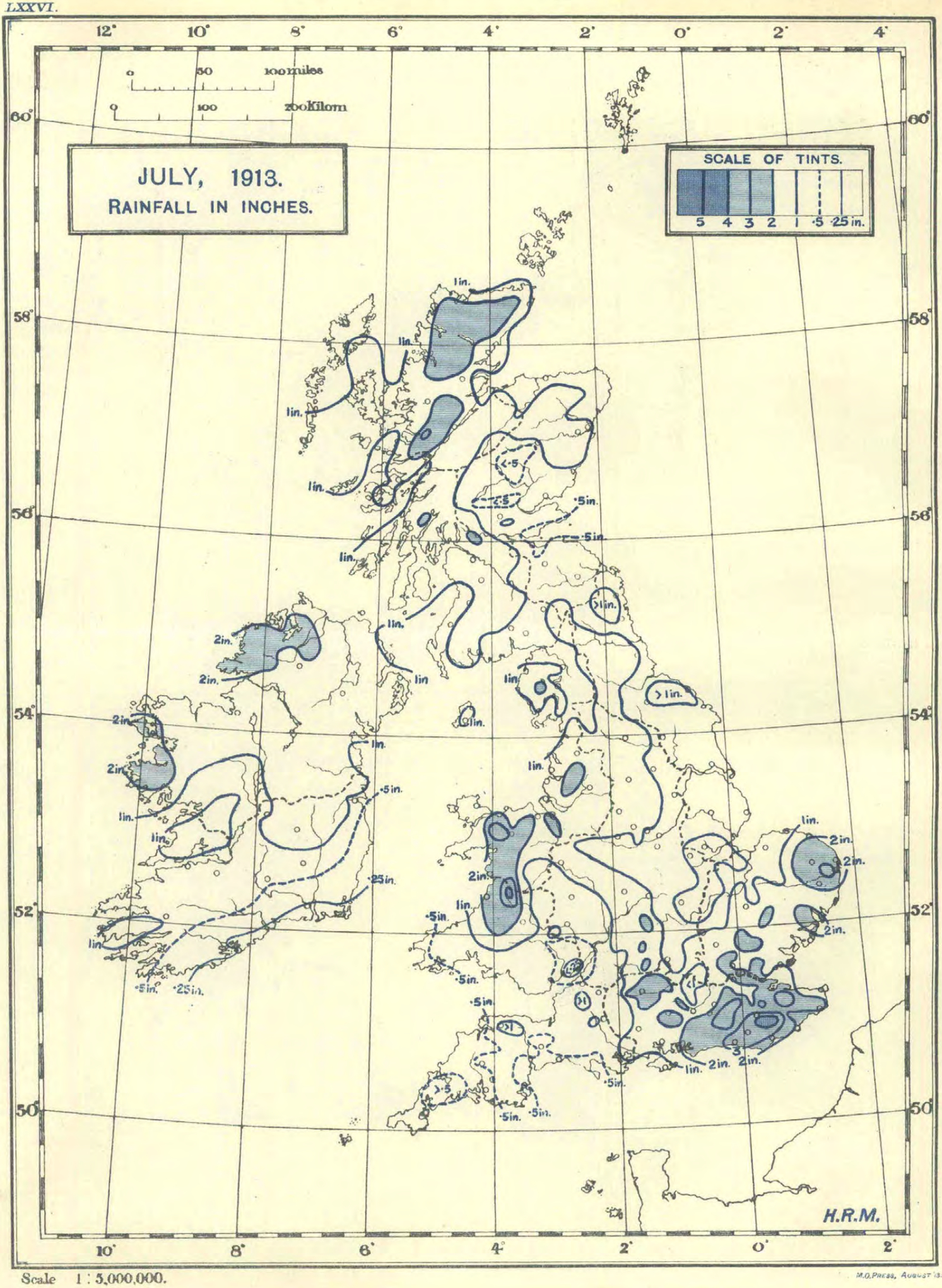
Sea temperatures are shown in large figures thus **57**

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS 6 5 4 Hrs.



M.O. Press, August '13



Scale 1 : 5,000,000.

M.O. Press, August '13.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, JULY, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	66·9	51·5	59·2	—	75	28, 31	45	8, 9	—	57·5	1·85	—	0·56	14th	12	0	0	1	0	0	3·25	—	20	—
a Golder's Green	279	66·1	51·2	58·7	—	73	28, 31	44	8th	—	—	2·23	—	0·74	14th	11	0	0	0	—	—	—	—	—	—
p Hampstead (Redington Rd.)	375	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon ...	51	68·9	52·5	60·7	—	78	29, 31	44	8th	—	—	2·01	—	0·62	14th	11	0	0	1	0	0	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	61·8	49·4	55·6	—	72	23rd	40	8th	—	—	1·09	—	0·48	13th	10	0	0	0	0	0	5·84	—	35	—
a Ardnadam	64	65·8	49·3	57·6	—	76	23rd	40	8th	—	—	1·37	—	0·54	13th	10	0	0	0	0	0	—	—	—	—
a Thorntonhall (Lanarkshire)	440	64·7	46·3	55·5	—	75	29th	36	24th	—	—	1·55	—	0·85	6th	8	0	0	1	3	0	5·54	—	33	—
a Kilmarnock ... ¶	90	65·8	47·5	56·7	− 2·0	74	26,29,30	39	8, 24	—	—	1·48	—	0·63	6th	11	0	0	0	0	—	6·18	—	37	—
p Ruthwell ... ... §	67	68·2	47·9	58·1	—	82	27th	39	8th	—	—	0·74	—	0·50	6th	6	0	0	0	0	—	5·13	—	31	—
7. ENGLAND, N.W.																									
a Scaleby	111	66·4	48·7	57·6	—	78	29th	36	8th	—	—	1·38	—	0·66	6th	15	0	0	0	2	—	—	—	—	—
a Seathwaite	422	67·3	49·9	58·6	—	78	26, 29	40	8th	—	—	1·70	—	0·60	6th	13	0	0	1	0	—	—	—	—	—
a Carnforth	174	65·1	50·3	57·7	—	74	26, 30	40	8th	—	—	0·85	—	0·22	6th	10	0	0	0	0	0	5·25	—	32	—
a Lancaster	311	64·8	51·5	58·2	—	74	30th	44	8th	60·6	59·7	1·29	—	0·31	5th	15	0	0	0	0	0	4·69	—	29	—
a Hutton	81	64·7	50·4	57·6	—	73	26, 27	41	8th	59·2	54·9	2·42	—	1·33	6th	11	0	0	0	0	0	5·35	—	33	—
a Burnley	459	63·4	48·9	56·2	—	72	27th	37	8th	57·8	53·7	1·16	—	0·30	5th	13	—	—	—	—	0	4·01	—	25	—
a Leyland	124	64·8	50·4	57·6	—	74	27th	42	8th	—	—	2·58	—	1·25	6th	13	0	0	2	0	0	5·04	—	31	—
a Bolton	341	65·2	51·2	58·2	—	76	29th	44	8th	58·4	55·1	1·24	—	0·26	6th	12	0	0	0	0	0	4·28	—	26	—
a Blundellsands	34	63·8	53·5	58·7	—	72	27, 31	46	7th	—	—	2·36	—	1·44	6th	15	0	0	1	0	0	—	—	—	—
a Hoylake ... ... §	30	63·9	52·9	58·4	—	73	27th	47	7th	—	—	1·57	—	0·75	6th	9	—	—	—	—	0	5·84	—	36	—
a Rhyl	30	63·6	52·6	58·1	—	72	27, 30	46	9, 29	—	—	1·38	−1·02	0·35	21st	12	0	0	0	0	0	6·16	—	38	—
a Colwyn Bay	82	63·5	53·0	58·3	—	72	30th	48	8th	—	—	1·39	—	0·54	21st	9	0	0	0	0	—	5·53	—	34	—
a Llanberis (Pen-y-Gwryd)	913	61·9	48·1	55·0	—	73	27th	40	8, 9, 10	—	—	3·35	—	0·64	5th	15	0	0	0	4	—	—	—	—	—
a Macclesfield	500	64·5	50·1	57·3	—	76	29th	42	8th	—	—	1·56	—	0·57	6th	13	0	0	0	1	—	—	—	—	—
a Northwich	117	67·8	51·9	59·9	—	81	29th	44	9th	—	—	1·24	—	0·27	6th	14	0	0	0	2	—	—	—	—	—
a Hawarden Bridge... ¶	22	67·0	53·5	60·3	− 0·6	74	27th	48	7, 8	—	—	2·34	−0·10	1·69	6th	13	—	—	—	—	—	—	—	—	—
a Ruthin	449	63·5	50·9	57·2	—	73	27th	45	8th	—	—	1·73	—	0·61	6th	9	0	0	1	0	—	—	—	—	—
a St. Asaph	479	63·2	51·1	57·2	—	75	26, 27	45	7th	—	—	1·51	—	0·35	5th	11	0	0	0	0	0	—	—	—	—
a Welshpool	255	67·7	50·7	59·2	—	82	29th	44	8, 15	—	—	0·86	—	0·22	6th	15	0	0	0	1	—	—	—	—	—
p Aberdovey ... ... §	22	66·0	54·8	60·4	—	75	2, 30	47	8th	—	—	1·97	—	0·48	21st	14	0	0	0	0	—	6·69	—	42	—
8. ENGLAND, S.W.																									
a Aberystwyth ... §	59	63·5	53·9	58·7	—	76	30th	43	8th	—	—	2·02	—	0·56	17th	13	0	0	0	0	—	6·24	—	39	—
a Gwernyfed	374	67·7	48·0	57·9	—	80	28th	38	8th	—	—	0·44	—	0·12	17th	10	0	0	0	2	—	—	—	—	—
a Haverfordwest	93	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Swansea	24	69·3	54·2	61·8	—	78	28th	48	8th	65·0	58·9	0·71	—	0·20	8th	10	0	0	0	0	0	5·93	—	37	—
a Clifton ... ... ¶	229	69·1	54·6	61·9	− 0·7	80	28th	48	8th	—	—	0·42	−2·61	0·14	21st	11	—	—	—	—	0	5·28	—	33	—
a Weston-Super-Mare ...	29	68·1	54·3	61·2	—	78	28th	49	8, 28	—	—	0·68	—	0·33	6th	5	0	0	0	0	0	4·88	—	31	—
a Minehead	104	67·1	54·0	60·6	—	76	28th	48	8, 23	—	—	0·70	—	0·31	7th	8	0	0	0	0	0	4·60	—	29	—
a Ilfracombe	24	64·1	55·1	59·6	—	71	26th	52	8, 9	62·6	59·0	0·53	—	0·14	7th	11	0	0	0	0	0	6·45	—	41	—
a Arlington... ... ¶	613	64·7	50·5	57·6	− 1·8	74	29th	43	1, 8	—	—	0·87	−3·28	0·20	19th	10	0	0	0	0	—	—	—	—	—
a Cullompton ... ¶§	202	70·1	51·8	61·0	− 0·7	81	28th	44	23rd	64·5	—	0·68	−2·34	0·18	6, 9	12	0	0	0	0	0	5·28	−0·78	34	− 5
a Rousdon	515	66·2	50·9	58·6	− 0·6	75	23rd	46	9th	62·7	60·5	0·27	−2·56	0·11	22nd	6	0	0	0	3	0	5·76	—	37	—
a Sidmouth	147	67·6	52·5	60·1	—	77	23rd	48	6, 7	—	—	0·41	—	0·15	8th	8	0	0	0	0	0	—	—	—	—
a Exmouth	11	67·1	54·5	60·8	—	76	23rd	50	6, 9, 29	—	—	0·60	—	0·28	7th	7	—	—	—	—	—	6·23	—	40	—
a Killerton	160	70·5	51·2	60·9	—	83	28th	46	7, 8	—	—	0·47	—	0·16	6th	8	0	0	0	0	0	—	—	—	—
a Shaftesbury ... ¶	722	66·6	50·9	58·8	− 1·4	74	1st	46	9th	60·5	57·6	0·61	−2·23	0·25	6th	10	—	—	—	—	—	—	—	—	—
a Dorchester...	314	67·5	51·2	59·4	—	75	28th	44	9th	—	—	0·38	—	0·15	15th	6	0	0	0	1	—	4·90	—	31	—
a Weymouth	21	69·0	54·1	61·6	—	77	23rd	49	9th	—	—	0·23	—	0·10	15th	7	0	0	1	0	—	4·89	—	31	—
a Torquay	12	67·6	55·1	61·4	—	75	23rd	51	6, 7	—	—	0·30	—	0·16	7th	6	0	0	1	0	0	6·36	−0·84	40	− 6
p Paignton	11	67·3	53·7	60·5	—	76	23rd	50	6, 23, 28	—	—	0·31	—	0·14	7th	5	0	0	1	0	0	6·19	—	39	—
a Salcombe	39	66·5	53·6	60·1	—	76	23rd	48	21, 23	—	—	1·15	—	0·37	29th	7	0	0	1	3	—	6·47	—	41	—
a Tavistock	374	67·4	52·2	59·8	—	77	29th	46	7, 8	—	—	0·30	—	0·09	8th	10	0	0	1	1	—	—	—	—	—
a Ashburton	583	68·5	53·2	60·9	—	76	28th	49	6, 8, 9	—	—	0·48	−2·83	0·20	7th	7	0	0	0	1	—	—	—	—	—
a Fowey	51	68·3	54·0	61·2	—	75	2nd	48	20th	—	—	0·50	—	0·16	30th	5	0	0	0	0	—	7·05	—	45	—
a Redruth	397	63·7	53·2	58·5	—	71	1, 28	47	8th	—	—	0·38	—	0·17	8th	10	0	0	0	1	—	—	—	—	—
a Penzance	54	66·0	55·8	60·9	—	71	29, 31	50	8, 21	—	—	0·38	—	0·20	8th	10	0	0	0	0	—	6·67	—	43	—
9. IRELAND, N.																									
p Dunfanaghy	54	60·1	51·3	55·7	—	71	26th	42	8th	—	—	1·89	—	0·46	20th	14	0	0	0	2	—	—	—	—	—
a Lisburn	207	68·5	49·1	58·8	—	79	27th	41	8th	—	—	2·01	—	0·37	13th	14	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin) ...	67	66·2	50·0	58·1	− 1·1	74	1, 3	40	8th	—	—	0·58	−2·17	0·17	18th	11	0	0	1	0	1	—	—	—	—
a Kingstown...	42	—	—	—	—	—	—	—	—	—	—	0·58	—	0·18	14th	10	—	—	—	—	—	—	—	—	—
p Clongowes Wood Col. ...	245	64·6	49·4	57·0	—	74	27th	36	8th	—	—	0·74	—	0·21	18th	15	0	0	0	0	—	5·72	—	35	—
a Mountmellick	239	67·3	49·9	58·6	—	79	27th	41	8th	—	—	0·65	—	0·18	8th	9	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow...	256	63·9	51·2	57·6	—	72	23rd	42	8th	—	—	0·33	—	0·09	14, 20	8	0	0	0	0	—	—	—	—	—
a Kilkenny ... ... ¶	195	67·3	50·6	59·0	− 0·7	78	27th	40	8th	—	—	0·68	−2·02	0·24	14th	12	0	0	0	0	—	—	—	—	—
a Cahir ... ... ¶	199	68·5	50·1	59·3	− 0·3	79	1, 27	40	23rd	—	—	0·63	—	0·32	8th	9	0	0	0	6	—	—	—	—	—
a Wexford	99	66·5	52·8	59·7	—	72	26, 27	48	8, 20, 23	—	—	0·25	—	0·12	14th	5	0	0	0	0	—	—	—	—	—
a Waterford ... ... ¶	100	68·5	51·4	60·0	− 0·1	78	27th	43	27th	—	—	0·19	−3·02	0·10	8th	5	0	0	0	2	—	—	—	—	—
p Waterford Trg. Coll. ...	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Foynes ... ... ¶	108	64·6	51·5	58·1	− 0·4	75	28th	43	20th	—	—	0·90	−2·14	0·44	9th	12	0	0	0	2	—	—	—	—	—
a Killarney ... ... ¶	174	69·2	51·4	60·3	+ 1·0	79	1, 27	44	8th	—	—	0·78	−2·56	0·40	8th	16	—	—	—	—	—	—	—	—	—
a Ballinacurra ... §	24	66·7	50·8	58·8	—	75	27th	42	23rd	—	—	0·24	—	0·20	8th	5	0	0	0	0	—	6·41	—	40	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	65·2	54·6	59·9	− 1·5	70	29th	51	2nd	—	—	2·66	+0·31	1·80	29th	8	0	0	1	0	—	6·13	−2·13	39	−14

DISTRICT VALUES—JULY, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	79	36	61·5	49·7	55·2	+0·3	56·9	0·0	—	—	1·06	−2·46	11	4·26	+0·16	25	+ 1	7·7	7·3	7·4	30·47	1st	29·72	17th
Eastern.																								
1. SCOTLAND, EAST ...	80	31	64·0	48·7	56·0	−0·6	58·8	+0·9	53·6	+0·2	0·81	−2·19	9	4·57	−0·68	27	− 4	7·3	6·3	6·6	30·43	1st	29·74	17th
2. ENGLAND, N.E. ...	76	39	63·2	50·3	56·3	−2·4	58·5	−0·6	55·2	+0·3	0·71	−1·73	10	3·13	−3·05	19	−19	8·4	—	7·6	30·42	1st	29·73	6th
3. ENGLAND, EAST ...	77	39	64·3	51·2	57·3	−3·3	60·6	−1·7	58·4	−0·4	1·73	−0·58	13	3·68	−3·11	23	−19	8·7	7·8	7·5	30·39	1st	29·70	6th
4. MIDLAND COUNTIES	81	37	66·5	51·2	58·3	−1·7	58·9	−0·4	55·3	0·0	0·86	−1·55	10	3·26	−2·77	20	−18	8·4	7·6	6·7	30·40	1st	29·75	6th
5. ENGLAND, S.E. ...	82	37	66·5	52·3	58·9	−2·5	61·2	−0·9	57·8	−0·1	1·54	−0·65	12	4·23	−2·74	27	−17	7·8	7·2	6·6	30·37	1st	29·72	6th
Western.																								
6. SCOTLAND, WEST ...	82	35	64·9	49·5	56·8	−0·5	60·5	—	56·5	+0·6	1·26	−1·35	11	6·61	+1·04	40	+ 6	6·6	6·9	6·5	30·42	1st	29·80	5th
7. ENGLAND, N.W. ...	82	36	64·8	51·8	57·8	−1·1	60·0	+0·4	55·9	−0·2	1·53	−1·51	12	5·93	+0·06	36	0	7·1	5·9	6·3	30·40	1st	29·80	6th
8. ENGLAND, S.W. ...	76	37	66·4	52·7	59·1	−0·7	62·4	0·0	58·0	+0·7	0·58	−2·39	9	6·28	−0·10	40	0	6·7	5·5	5·0	30·39	1st	29·77	6th
9. IRELAND, NORTH ...	76	35	62·4	50·4	55·9	−1·5	60·4	+0·1	55·7	−0·3	1·33	−1·96	15	4·72	+0·25	29	+ 2	7·0	6·1	6·3	30·50	2nd	29·82	16th
10. IRELAND, SOUTH ...	76	38	66·4	51·5	58·6	−0·4	60·8	−0·1	56·8	−0·2	0·69	−2·41	12	5·79	+0·73	36	+ 4	7·0	6·6	5·9	30·45	2nd	29·88	12th
11. ENGLISH CHANNEL...	75	51	65·3	55·0	59·9	−1·4	61·8	−1·2	59·4	−0·3	1·18	−1·15	8	6·17	−1·74	40	−11	7·0	6·6	5·1	30·37	1st	29·82	6th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Broadstairs ...	4·56	—	29	—
Littlestone§ ...	4·32	—	27	—
Hove	4·80	—	31	—
Westbourne ...	5·04	—	32	—
LONDON.	hr.		%	
Bunhill Row ...	2·99	−2·95	19	−18
Plumstead ...	2·58	—	16	—
8. ENGLAND, S.W.				
Tenby	6·81	+0·07	43	+ 1
Port Talbot ...	5·33	—	34	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	1·68	—	0·36	5th	15
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	0·39	—	0·08	7th	8
Forest of Dean (900 ft.)	0·99	—	0·24	19th	10

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 2, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☩ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, August 23, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. VIII. AUGUST, 1913. [*Price 6d.*

CALM, COOL, DULL AND DRY.

Pressure, Winds and Weather.—The very quiet weather conditions, which were experienced all over the British Isles during the month of July, were maintained, with very little variation, through August. There was, however, greater variety in the distribution of atmospheric pressure during the period now under review, though, as will be seen on referring to Map 1, at pages lxxv. and lxxxv., the general results for the two months were very similar, differing only in the values of the isobaric lines, the August values being 0·05 in. lower than those for the preceding month. Between the beginning and the end of the month the country was visited by as many as six types of pressure distribution, but they were too feeble to introduce any very striking modifications in the weather, excepting a few local passing rainstorms. An area of high pressure which settled over the whole kingdom on July 22nd remained in the ascendant until August 8th. Until the 3rd it was part of a very extensive system, which covered the greater portion of the North Atlantic, Europe and Western Siberia, but during the remaining days it extended no further east than the North Sea. At no time was the system of any great intensity over the land, the barometer standing above 30·3 in. at various stations early in the month, 30·35 in. at Blacksod on the 2nd, but it rose above 30·5 in. on the upper part of the Atlantic, midway between Iceland and Southern Greenland, on the 4th. In the night of the 8th the anticyclone withdrew to the ocean, and a depression which had occupied Northern Europe for some days expanded westward and covered the whole of these Islands, the system becoming, however, at the same time very shallow. One of the few Atlantic depressions of the month advanced towards the mouth of the English Channel on the 11th, but it was devoid of energy, and on passing into North-Western France on the morning of the 12th it dispersed, the anticyclone soon returning from the ocean. The high pressure was now re-established all over the country, the system extending south-westward to and beyond the Azores, and at times stretching north-eastward across Norway to Lapland and the Arctic Sea. At the home stations the anticylone attained its maximum intensity on the 17th and 18th, when the barometer ascended to 30·4 in. over Scotland, to 30·43 in. at Stornoway and Wick, and 30·42 in. at Nairn. This type was maintained, with comparatively little variation in the general conditions, until the 20th, when an extensive depression was indicated moving across the upper portion of the Atlantic, and next morning its eastern section already embraced Ireland and Scotland. The system was at its greatest depth over Scotland on the 22nd and 23rd, when the barometer fell below 29·5 in. at the most northern stations, to 29·41 in. at Lerwick, the lowest value reported during the month. Its progress, however, was very slow, the centre advancing on an easterly path off the south of Iceland, but on arriving in the Shetland-Faröe region on the 24th the system collapsed. Again, on the 25th, there was a resumption of an anticyclonic pressure distribution over the British Isles, flanked by well-marked depressions about Iceland on the one side, and the Bay of Biscay region on the other. The anticyclone was at its maximum on the 26th and 27th, with the barometer above 30·3 in., touching 30·35 in. at some of the Irish stations. By the 29th the Bay depression was following a north-easterly course, its influence extending over practically the whole of the kingdom, the weather of the last three days being the most unsettled which the country experienced during the month. This disturbance was of little depth, the mercury sinking below 29·75 in. in nearly all parts of England, the lowest readings, 29·71 in., being reported at Dover and Dungeness.

With such a decided preponderance of anticyclonic conditions the mean pressure for the month was everywhere well in excess of the normal, by 0·07 in. at Jersey, and 0·09 in. at Portland Bill, while along the north-western coasts, from Blacksod to Stornoway, it was 0·21 in. The general distribution, consequently, differed widely from the normal, the results indicating a region of maximum pressure from Ireland out to the Atlantic and down across the Azores, and regions of minimum pressure respectively to the northward of Iceland, and from Sweden down to the Black Sea. From 29·79 in. along the north of Iceland, and 29·91 in. at Odessa the mean values ranged upwards to 30·00 in. at Lerwick, 30·12 in. at Roche's Point, and 30·27 in. at Horta (Azores). The extreme range of pressure at the home stations was small, from 0·6 in. over the southern half of the kingdom to an inch in Shetland. The mean pressure gradient was very slight, amounting to about 0·08 in. between Yarmouth and Valencia. As there were half a dozen different types of pressure distribution the winds were very variable in direction, almost equally divided between the South-West, North-West and North-East quarters.

As will have been gathered from the foregoing remarks, the disturbances of the month were not only few in number, but also very shallow, so that the variations of pressure and the gradients were slight. This fact is very strikingly illustrated in the observations of wind force, which show that calms and light airs to gentle breezes formed 86 per cent. of the records. Strong winds (force 6) were unusually rare occurrences. A high wind (force 7) was felt at Stornoway on the 3rd, and at Portland Bill and Scilly on the 22nd, the only instance of a gale (force 8) being at Malin Head in the night of the 23rd. The passage of a small "V"-shaped secondary depression across the country in the night of the 22nd was marked by a few smart squalls, the anemometrical records disclosing gust velocities of 44 miles per hour at Rosyth, 45 miles at Pendennis, and 48 miles at Scilly. The highest mean hourly velocity for the month, which also occurred on this occasion, was 37 miles at Pendennis.

The weather was almost as quiet as the winds. A spell of dryness had set in in the course of July, as far back as the 10th of that month in some localities, and it was maintained over the greater part of the kingdom until the close of the anticyclonic type of conditions in the early days of August, about the 8th or 9th. At many scores of stations no rain was measured during 15 or more consecutive days, amongst those exceeding 20 days being Scaleby, Donaghadee, Glenarm, Waterford, Cardross, Poltalloch and Fortrose, 21 days; Thrapston, Crieff, Leith and Thorntonhall, 22; Portland Bill, 24; Exmouth, 29; Teignmouth, 30; and South Hanningfield, Essex, 34 days, this last station being rainless from July 20th to August 22nd. As a partial drought the spell covered a period of very variable duration, more than three months locally in the south-west, an observer near Exmouth registering 1·01 in. of rain in the 103 days ending with August 29th, and Portland Bill 1·00 in. in 102 days, and 1·03 in. in 103 days to the 25th. South Hanningfield received 0·30 in. in 44 days to August 30th. The break in the drought was brought about over the country generally by light showers, there being only a few local heavy downpours, and hardly any thunderstorms until the closing days. In Snowdonia there were falls up to 1·6 in. on the 8th; Bath an inch on the 9th; Mount Callan (Co. Clare), on the 10th, and Scilly, on the 11th, had 1·5 in. The Icelandic disturbance of the 21st to 23rd brought good rainfalls, mostly to the mountainous regions, some exceeding 1·5 in., Aspatria 2 in., and Seathwaite 4·3 in. on the 21st. The northward advance of the Bay depression, towards the end of the month, was marked by thunderstorms in many parts of England and Ireland on the 29th, but, with the exception of 1·1 in. at Croyland Abbey, little rain. Next day the thunderstorms spread to Scotland, and towards evening heavy rain set in over a limited area in the extreme south of England, 1·5 in. at Folkestone and Sandgate, and 1·7 in. at Selsey. On the 31st very few places reported thunderstorms, but the rain area in the south expanded, many stations receiving more than an inch, Folkestone 1·7 in., Portland Bill 1·8 in., Selsey 1·9 in., Patching 2·3 in., and Worthing 2·5 in.

Excepting in south-western and western England, where the weather was finer and brighter than elsewhere, temperature was below the normal, by from 2° to 3° in places. There were few hot days, temperatures above 80° occurring on the 2nd–4th, and 28th–30th in various localities, 83° at Lisburn on the 2nd, Belper and Rugby on the 3rd, and Woking on the 28th; 84° at Hodsock on the 4th, and at Matfield on the 28th. Cold nights were uncommon, but there were some minima below 40°, and on the morning of the 18th St. Andrews touched 32°. Damage by frost was reported at Linmere Delamere (Cheshire) on the 4th, and on the "Moss" lands, near Southport, on the 19th.

The temperature of the coastal sea water was warmer than in July, by as much as 4° off Kerry and Stornoway. Off the north-east of England and in the Western Channels the water was colder than the air; elsewhere equal to or a little warmer.

Much fog was reported on the western coasts from the 1st–3rd, 13th–22nd, and 28th–30th; and on the east coast from the 27th–31st.

Rainfall was generally very deficient, both as regards frequency and intensity. At a large number of stations situated in nearly all parts of the country there were less than 10 days with a measurable quantity, at Fortrose, Hull and Teignmouth only 6, and at Rauceby and Newcastle (Co. Wicklow) only 5. In many districts the total for the month amounted to considerably less than half the normal, the smallest aggregates reported being 0·23 in. (only 9 per cent. of the average) at Rauceby, 0·26 in. (13 per cent.) at Southend, 0·30 in. at Fowey, 0·34 in. (17 per cent.) at Margate and 0·35 in. (20 per cent.) at Shoeburyness. Locally, on the coasts of Kent and Sussex, where the month's rainfall was largely swollen by the heavy downpours which occurred on the 30th and 31st, the aggregate was in excess of the average. At Dungeness the excess amounted to 15 per cent., at Folkestone to 51 per cent., and at Worthing to as much as 71 per cent.

Bright Sunshine was unusually prevalent in Ireland, the west of Scotland and the north-west of England, and, locally, at a few places in the north and east of Scotland. Elsewhere there was a general deficiency, the loss amounting to at least one hour per day in the midland and south-eastern counties, and to nearly two hours per day at Greenwich. At Armagh 120 per cent. of the average duration was registered, at Blackpool and Markree Castle 122 per cent., and at Valencia 132 per cent. Worksop recorded, upon the other hand, only 68 per cent. of the average amount, Scilly 69 per cent., Greenwich 70 per cent., and Kew 75 per cent.

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TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.		Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.							EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.											
							Mean of				Absolute Maximum and Minimum.																
				Station Level.	Diff. from Av.	Mean Sea Level.	A. Max.	B. Min.	Mean of A and B.	Difference from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
																	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
			Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																												
Islands	*a* Castlebay	7, 1, 9	48	9·992	+·196	0·057	59·2	52·6	55·9	−1·0	62	3, 18, 29	50	6, 7, 24	—	—	54·9	57·6	55·2	1·7	3·0	2·2	·382	·388	·373	89	82	86
	p Deerness ... §	9, −, 9	163	9·842	—	0·015	58·5	49·7	54·1	+0·1	65	2nd	45	10th	—	—	54·8	—	51·9	2·8	—	1·9	·355	—	·341	83	—	88
	a Lerwick ... ¶	7, 1, 9	59	9·935	+·182	0·000	57·5	49·3	53·4	+0·4	61	1, 24	42	4, 20	—	—	52·7	55·8	52·7	2·0	3·8	2·0	·344	·342	·344	87	76	87
	a Stornoway ... ¶§	7, 1, 9	52	9·973	+·202	0·034	60·8	49·9	55·4	+0·8	67	26th	44	19th	—	—	53·9	59·2	53·7	1·5	3·4	1·5	·373	·400	·370	90	80	89
Mainland	*a* Wick ... ¶	7, 1, 9	94	9·923	+·182	0·029	58·2	47·7	53·0	−1·9	70	2nd	35	20th	—	—	52·6	56·6	52·5	1·3	2·7	1·1	·361	·380	·365	91	82	92
	p Strathpeffer ¶§	9, −, 9	210	9·801	—	0·023	66·4	48·8	57·6	+2·6	74	1st	41	7, 18	—	—	57·7	—	55·1	3·4	—	3·0	·378	—	·351	79	—	81
	a Glencarron § ¶	9, −, 9	504	9·487	—	0·038	60·6	48·3	54·5	−0·4	70	15th	41	7th	—	—	55·4	—	53·2	3·4	—	2·6	·345	—	·335	79	—	83
	p Ft. Augustus § ¶§	9, −, 9	73	9·965	—	0·041	63·6	49·5	56·6	−0·3	73	1st	37	7th	—	—	56·1	—	56·1	1·9	—	1·5	·396	—	·407	87	—	90
	p Ft. William § ¶	9, −, 9	38	0·008	—	0·045	64·7	49·1	56·9	−0·4	72	1st	38	7th	—	—	57·0	—	54·1	3·1	—	2·4	·378	—	·357	81	—	84
	p Kingussie ... §	9, −, 9	828	9·143	—	0·029	63·5	46·2	54·9	—	74	1, 27	33	19th	—	—	55·6	—	53·5	4·0	—	3·1	·334	—	·326	76	—	79
	p Dunrobin ... §	9, −, 9	16	0·021	—	0·035	61·4	48·5	55·0	−0·8	66	16th	39	7th	59·0	—	57·7	—	55·5	2·6	—	2·4	·400	—	·373	84	—	85
1. SCOTLAND, E.																												
	a Nairn ... ¶§	7, 1, 6	82	9·941	+·185	0·035	64·2	47·8	56·0	−0·7	73	2, 16	37	20th	—	—	53·3	61·4	59·6	1·8	4·9	4·0	·357	·393	·389	88	73	77
	p Gordon Castle § ¶	9, −, 9	107	9·928	—	0·040	64·8	48·0	56·4	−0·3	77	16th	37	20th	—	—	58·1	—	53·8	4·0	—	1·8	·369	—	·363	76	—	87
	Aberdeen ... ¶§	9, 3, 9	90	9·945	+·169	0·041	61·9	49·6	55·8	−0·7	74	2nd	42	12th	—	54·0	57·2	59·6	54·9	4·4	5·3	2·8	·350	·362	·357	74	71	82
				9·944	+·168	0·040			55·7	+0·1																		
	a Balmoral ... § ¶	9, 3, −	927	9·048	—	0·042	65·2	44·4	54·8	—	77	2nd	35	18th	—	—	50·6	63·2	—	2·1	—	—	·316	—	—	86	—	—
	p Braemar ... §	9, −, 9	1114	8·861	—	0·038	63·7	43·8	53·8	0·0	74	1, 2, 27	31	18th	—	—	55·5	—	52·3	4·4	—	3·0	·323	—	·315	73	—	80
	p Dundee ... §	9, −, 9	164	9·880	—	0·052	67·5	49·5	58·5	+0·9	80	2nd	39	7th	—	—	58·5	—	55·2	3·2	—	2·0	·394	—	·379	80	—	87
	p Crieff ... § ¶	9, −, 9	436	9·587	—	0·044	67·8	49·1	58·5	+1·0	80	2nd	40	20th	—	—	58·1	—	55·7	4·7	—	3·1	·351	—	·359	72	—	81
	a Leith ... ¶	7, −, 6	37	9·991	+·159	0·034	65·9	51·6	58·8	+0·1	77	2nd	46	7th	—	—	54·9	—	52·1	2·6	—	6·2	·358	—	·369	83	—	67
	p West Linton S ¶	9, 3, 9	805	9·191	—	0·051	64·2	45·4	54·8	−1·5	75	3, 16	37	8, 11, 18	—	—	57·0	61·6	51·9	3·5	6·0	1·4	·364	·366	·349	78	67	91
	p Marchmont § ¶§	9, −, 9	500	9·523	—	0·055	65·6	48·3	57·0	+0·7	79	3rd	42	20th	58·5	—	58·3	—	54·4	4·6	—	2·5	·356	—	·353	73	—	83
2. ENGLAND, N.E.																												
	p Whitby	9, −, 9	158	9·877	—	0·040	69·3	49·7	59·5	+1·1	79	2, 3	43	5, 8	—	—	61·6	—	55·2	5·0	—	2·3	·398	—	·376	73	—	85
	p Cockle Park §	9, −, 9	331	9·709	—	0·062	64·5	48·7	56·6	—	82	3rd	42	5, 8	58·0	55·3	57·7	—	53·6	4·0	—	1·7	·367	—	·368	77	—	89
North	*a* Shields ... ¶	7, −, 6	117	9·936	+·168	0·061	63·5	51·7	57·6	−0·2	76	3rd	45	5th	—	—	54·5	—	58·8	2·3	—	4·1	·360	—	·375	84	—	76
	p Durham ... ¶§	9, −, 9	352	9·686	—	0·060	65·9	48·3	57·1	−1·2	82	3rd	38	5th	—	—	59·2	—	54·1	3·4	—	1·6	·403	—	·379	80	—	89
	p Rounton ... §	9, −, 9	245	9·785	—	0·044	66·1	48·2	57·2	−0·4	80	3rd	39	5th	58·3	—	57·6	—	54·3	3·3	—	1·9	·379	—	·368	80	—	87
	p Scarborough ¶§	9, −, 9	127	9·936	—	0·050	64·5	53·1	58·8	+0·1	73	26th	47	5th	—	58·8*	58·8	—	57·0	3·7	—	2·5	·388	—	·395	78	—	84
	p York ... ¶§	9, −, 9	53	0·016	—	0·067	68·5	50·5	59·5	−0·2	82	3rd	40	5, 6	58·8	56·7	59·0	—	57·4	4·1	—	3·4	·377	—	·373	76	—	79
South	*a* Spurn Head ¶	7, 1, 6	28	0·024	+·135	0·054	64·5	52·0	58·3	−1·6	73	21st	47	5th	—	—	56·7	62·2	59·9	1·6	3·6	2·6	·412	·441	·433	90	79	85
	a Lincoln ... ¶	9, −, −	42	0·040	—	0·074	68·5	51·4	60·0	−0·5	81	3rd	40	5th	60·7	57·7	59·3	—	—	4·1	—	—	·388	—	—	77	—	—
	a Skegness ... §	9, −, −	16	0·050	—	0·057	64·9	50·4	57·7	—	75	21st	41	7th	—	—	60·3	—	—	3·5	—	—	·413	—	—	80	—	—
	p Hull	9, −, 9	12	0·064	—	0·071	67·5	50·9	59·2	−0·4	79	3, 30	43	5th	58·0	55·3	60·2	—	57·1	4·4	—	2·7	·388	—	·387	74	—	82
3. ENGLAND, E.																												
	p Lowestoft	9, 3, 9	77	—	—	—	63·6	52·3	58·0	−2·6	74	22nd	43	7th	61·9	59·5	—	—	—	—	—	—	—	—	—	—	—	—
	p Cromer ... ¶§	9, −, 9	139	9·909	—	0·052	65·9	52·5	59·2	—	78	29th	47	8th	—	—	59·3	—	56·1	2·9	—	1·5	·415	—	·407	82	—	90
North	*p* Lit. Massingham ¶§	9, 3, 9	280	—	—	—	68·4	50·2	59·3	−1·2	81	29th	43	5, 7	—	—	60·3	65·7	55·4	3·5	6·6	2·0	·413	·413	·382	80	66	87
	a Yarmouth ... ¶	7, 1, 9	27	0·030	+·119	0·054	64·4	52·9	58·7	−1·8	72	30th	47	6, 7	62·0	59·6	55·9	62·8	58·0	1·5	4·3	2·2	·404	·432	·415	91	76	86
	p Geldeston ... ¶§	9, −, 9	47	0·020	—	0·064	67·8	49·2	58·5	−2·1	82	30th	41	7, 9, 17	—	—	60·5	—	55·3	4·0	—	1·7	·403	—	·389	77	—	89
South	*p* Cambridge... ¶§	9, −, 9	43	0·015	—	0·056	70·2	50·4	60·3	−1·2	81	28th	38	7th	61·8	59·0	60·7	—	58·0	3·6	—	2·4	·420	—	·413	79	—	85
	a Clacton ... ¶§	7, 1, 9	54	9·998	+·099	0·056	66·4	53·8	60·1	−2·1	77	30th	44	7th	60·7	59·2	57·7	64·8	59·6	2·3	5·8	2·9	·409	·421	·420	85	69	82
	a Woburn	9, −, 9	294	9·774	—	0·086	69·6	48·8	59·2	—	81	28th	39	8th	—	—	59·9	—	57·5	3·6	—	2·5	·405	—	·400	79	—	85
	p Bennington ...	9, 3, 9	411	—	—	—	69·7	50·7	60·2	−0·6	79	28th	45	7th	61·5	59·7	60·2	67·0	57·5	4·5	8·8	2·9	·391	·390	·392	75	60	83
	p Berkhamsted ...	9, −, 9	397	9·658	—	0·079	70·1	50·1	60·1	−0·4	82	28th	42	25, 26	62·0	—	60·0	—	56·8	4·3	—	2·4	·392	—	·395	75	—	85
4. MIDLAND COUNTIES.																												
	a Garforth	9, −, 9	198	—	—	—	67·1	45·8	56·5	—	80	3rd	32	5th	56·3	54·1	59·2	—	55·5	4·1	—	2·3	·386	—	·384	77	—	86
	p Huddersfield ...	9, 3, 9	411	9·622	—	0·061	66·4	50·6	58·5	—	79	3rd	41	5th	59·4	55·8	57·7	64·1	56·6	3·2	6·2	2·2	·388	·405	·399	81	68	86
	p Sheffield ... §	9, −, 9	450	9·590	—	0·067	66·4	51·9	59·2	−0·8	79	3rd	43	5th	58·0	55·0	58·9	—	57·7	4·2	—	2·8	·378	—	·398	76	—	82
	a Worksop	9, −, 9	67	0·001	—	0·068	68·8	49·2	59·0	−0·7	84	3rd	37	5th	58·9	56·4	60·0	66·7	—	4·4	7·9	—	·385	·395	—	74	60	—
	p Buxton	9, 3, 9	997	9·008	—	0·071	63·4	47·1	55·3	−1·5	75	3rd	35	5th	57·8	54·3	58·3	61·8	54·5	3·6	4·8	2·0	·381	·401	·368	78	73	87
East	*p* Belvoir Castle ...	9, −, 9	276	9·790	—	0·083	68·2	49·7	59·0	−1·1	81	3rd	40	5th	60·3	56·0	58·5	—	56·7	3·6	—	2·6	·383	—	·384	78	—	84
	a Coventry	9, −, −	309	9·750	—	0·073	70·0	51·5	60·8	0·0	82	3rd	43	8th	60·2	57·0	60·4	—	—	4·5	—	—	·388	—	—	74	—	—
	a Thrapston	9, 3, −	251	—	—	—	69·3	50·1	59·7	—	80	28th	40	8th	—	—	60·4	67·5	—	5·0	9·7	—	·375	·362	—	71	53	—
	a Nottingham ¶§	7, 1, 9	85	9·977	+·118	0·067	68·7	49·5	59·1	−1·2	81	3rd	44	2, 10, 26	59·7	58·0	54·0	65·8	58·5	1·5	7·2	2·8	·374	·398	·406	90	64	82
	p Birmingham § ¶	9, −, 9	542	9·505	—	0·081	67·4	51·9	59·7	+0·1	79	3rd	43	8th	56·5	53·3	56·6	—	60·0	3·2	—	4·6	·371	—	·386	80	—	74
	a Oxford ... ¶§	8, −, 8	212	—	—	—	70·0	51·9	61·0	−0·1	81	28th	43	5th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·845	+·104	—			60·6											4·8			·383			73		
West	*a* Bath ... ¶§	7, −, 6	84	9·983	+·110	0·078	70·9	51·8	61·4	+0·6	82	28th	42	5th	63·1	60·5	56·9	—	66·9	2·3	—	7·0	·395	—	·423	86	—	64
	p Shrewsbury ¶	9, −, 9	212	9·854	—	0·076	69·6	49·6	59·6	−0·4	79	3rd	37	8th	—	—	59·2	—	57·8	3·5	—	2·4	·403	—	·412	80	—	85
	p Wistanstow ...	9, −, 9	484	9·557	—	0·071	69·6	49·5	59·6	—	80	3rd	38	20th	—	—	60·5	—	57·5	3·0	—	1·6	·431	—	·425	82	—	89
	p Bromyard	9, −, 9	400	9·643	—	0·066	69·2	49·7	59·5	—	79	3rd	39	10, 25	61·6	58·2	60·3	—	58·0	3·6	—	2·5	·415	—	·413	79	—	85
	p Cheltenham ...	9, −, 9	206	9·866	—	0·089	69·7	52·6	61·2	+0·7	81	3rd	42	5th	—	—	61·2	—	59·9	4·0	—	3·2	·414	—	·416	77	—	81
5. ENGLAND, S.E.																												
	p Reading	9, −, 9	264	9·797	—	0·074	70·4	51·6	61·0	—	82	28th	43	25th	—	—	61·5	—	59·4	2·3	—	1·9	·470	—	·447	86	—	89
	p Salisbury(Wilton) ¶	9, −, 9	186	—	—	—	71·8	50·0	60·9	−0·3	80	28th	40	26th	63·4	—	61·7	—	57·9	3·7	—	1·9	·431	—	·422	78	—	88
	a Grayshott	9, 2, −	659	9·369	—	0·069	67·6	51·5	59·6	—	79	28th	46	5, 9, 25	60·4	—	59·4	65·8	—	3·6	6·8	—	·398	·408	—	79	65	—
	a Midhurst	9, 2, −	453	9·543	—	0·067	67·2	52·0	59·6	—	77	28th	47	21st	—	—	60·1	65·8	—	3·1	6·1	—	·419	·434	—	81	69	—
	a Brighton	9, −, −	48	0·019	—	0·062	68·3	54·6	61·5	−0·7	79	27th	48	4, 6	—	61·1	62·6	—	—	4·4	—	—	·425	—	—	75	—	—
	a Portsmouth ...	9, −, −	18	0·063	—	0·074	69·6	55·3	62·5	+0·1	78	27th	48	6th	63·6	60·9	63·1	—	—	4·7	—	—	·425	—	—	73	—	—
	p Eastbourne §	9, −, 9	36	0·037	—	0·068	67·8	54·0	60·9	−1·3	76	27, 28	46	6th	62·6	60·2	62·7	—	60·4	3·8	—	2·5	·449	—	·447	79	—	85
	a Dover	7, −, 6	234	9·808	+·051	0·062	66·4	52·9	59·7	—	78	28th	44	6th	59·1	56·1	58·9	—	60·2	2·2	—	3·0	·429	—	·426	86	—	82
	a Dungeness... ¶	7, 1, 6	21	0·030	+·099	0·058	66·1	53·4	59·8	−2·2	72	28th	43	9th	—	—	58·7	64·6	62·5	2·2	4·8	3·7	·426	·447	·443	86	74	78
	p Hastings ... ¶	9, −, 9	174	9·884	—	0·064	67·4	54·4	60·9	−0·7	79	28th	49	6, 24	62·6	60·1	62·8	—	57·8	4·9	—	2·6	·414	—	·401	73	—	83
	p Southampton ¶§	9, −, 9	84	9·987	—	0·071	69·5	53·8	61·7	−1·7	75	21,26,28	47	26th	—	—	62·2	—	61·3	4·9	—	3·5	·408	—	·432	78	—	80
	a Ventnor ... ¶§	9, 3, −	80	9·962	—	0·046	67·8	56·0	61·9	−0·5	75	27th	50	9th	—	—	62·7	66·0	—	4·3	5·8	—	·430	·440	—	75	69	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of AUGUST, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.														Force (0-12).		Direction.							
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
4·69	—	31	—	8·2	7·4	7·0	1·94	—	0·25	20th	16	12	0	—	0	0	2	15	7	—	0	16	5	10	4	5	5	5	17	18	24	Castlebay.
3·70	−0·14	24	− 1	7·9	—	7·7	1·30	−1·63	0·44	21st	14	12	0	0	0	1	1	19	5	—	0	21	13	20	1	0	7	12	9	9	22	Deerness.
—	—	—	—	6·3	6·2	6·6	1·26	—	0·45	21st	13	7	0	—	0	0	1	4	3	—	0	19	2	15	2	6	12	16	12	16	12	Lerwick.
4·06	−0·26	27	− 2	7·7	7·4	8·1	1·66	−2·22	0·28	15th	14	9	0	—	0	0	2	18	0	—	0	28	4	15	13	1	4	7	20	15	14	Stornoway.
—	—	—	—	7·1	7·1	7·0	1·31	−1·43	0·21	23rd	18	12	0	—	0	0	0	8	4	—	0	10	7	10	9	2	8	12	15	14	16	Wick.
3·76	−0·18	25	− 1	7·9	—	6·5	0·85	−1·78	0·26	24th	12	6	0	0	0	0	0	10	2	—	0	11	52	3	2	3	1	0	12	15	5	Strathpeffer.
—	—	—	—	8·1	—	8·4	3·29	−4·02	1·14	21st	14	13	0	0	0	0	2	22	0	—	0	15	0	15	0	21	0	2	0	55	0	Glencarron.
3·29	+0·39	22	+ 3	8·4	—	7·4	1·21	−2·35	0·61	21st	9	7	0	0	0	1	1	18	1	—	0	24	3	9	37	0	0	6	34	4	0	F. Augustus.
—	—	—	—	8·3	—	6·1	2·59	−3·43	0·95	21st	13	6	0	0	0	0	2	17	2	—	0	5	30	0	15	3	0	2	40	3	0	Ft. William.
—	—	—	—	8·1	—	7·4	1·16	—	0·49	21st	9	8	0	0	0	0	3	20	1	—	0	12	16	9	9	8	2	0	6	31	12	Kingussie.
—	—	—	—	6·9	—	7·3	1·19	−1·54	0·24	25th	11	8	0	0	0	0	0	12	1	—	0	4	21	3	2	29	0	0	1	33	4	Dunrobin.
3·48	—	23	—	7·2	5·8	6·9	0·76	−1·89	0·19	25th	8	6	0	—	0	0	0	6	0	—	0	0	24	3	17	12	1	3	12	16	5	Nairn.
3·65	—	26	—	7·7	—	7·0	0·89	−2·54	0·19	21, 24	13	9	0	0	0	0	1	13	0	—	0	6	0	5	10	0	11	6	19	3	39	Gordon C.
4·91	−0·03	33	0	7·1	6·9	6·3	1·41	−1·67	0·29	24th	14	10	0	0	0	2	0	11	2	—	0	3	18	16	1	4	9	12	12	2	19	Aberdeen.
—	—	—	—	6·9	—	—	1·10	—	0·25	25th	15	10	0	0	0	1	4	13	0	1	0	9	0	9	3	6	6	6	18	33	12	Balmoral.
—	—	—	—	6·1	—	—	1·02	−2·76	0·28	24th	11	9	0	0	0	0	1	7	0	5	0	6	3	0	27	9	0	9	36	0	9	Braemar.
—	—	—	—	6·8	—	7·9	1·37	−1·98	0·44	30th	10	9	0	0	0	1	3	16	0	—	0	6	0	2	15	4	18	7	20	10	17	Dundee.
—	—	—	—	7·0	—	7·4	0·70	−3·29	0·23	21st	9	7	0	0	0	0	2	17	0	—	0	12	0	6	10	33	0	0	4	33	7	Crieff.
—	—	—	—	7·4	—	6·5	1·28	−1·61	0·81	30th	8	6	0	0	0	1	2	11	0	—	0	6	9	6	12	12	6	2	12	30	4	Leith.
4·34	—	29	—	7·5	6·7	6·3	1·72	—	0·58	21st	15	11	0	0	0	1	2	11	2	1	0	0	37	4	16	1	0	3	14	15	3	West Linton.
4·94	+0·17	33	+ 1	6·9	—	7·4	1·56	−2·06	0·61	29th	14	9	0	0	0	0	3	18	0	0	0	5	0	6	13	36	3	0	11	24	0	Marchmont.
5·25	—	36	—	7·2	—	6·8	0·75	−1·63	0·29	22nd	7	6	0	0	0	1	0	10	0	—	0	9	21	22	11	3	0	5	7	15	9	Whitby.
5·57	—	38	—	7·3	—	6·8	1·52	−1·50	0·46	16th	14	9	0	0	0	2	0	13	1	0	0	8	6	9	11	1	6	0	7	33	20	Cockle Park.
—	—	—	—	7·9	—	7·2	0·74	−2·10	0·17	21st	9	7	0	—	0	0	0	16	3	—	0	1	3	15	14	13	3	2	21	12	10	Shields.
4·27	−0·57	29	− 4	7·3	—	6·7	1·84	−0·91	0·99	29th	12	8	0	0	0	2	2	15	2	0	0	9	36	12	5	3	0	9	9	6	13	Durham.
—	—	—	—	8·1	—	6·1	1·99	−0·79	0·52	9th	12	6	0	0	0	1	2	17	5	0	0	2	17	22	8	0	5	18	13	3	7	Rounton.
6·08	—	41	—	7·3	—	7·8	0·99	−1·81	0·24	9th	10	7	0	0	0	0	0	9	5	—	0	29	0	8	18	1	15	5	18	4	24	Scarborough
4·18	−0·69	29	− 4	6·8	—	6·9	0·85	−1·77	0·27	22nd	9	6	0	0	0	1	0	12	0	—	0	0	3	24	6	7	2	9	8	19	15	York.
5·60	—	39	—	7·1	6·4	7·3	1·12	−0·84	0·78	22nd	8	4	0	—	0	4	0	4	5	—	0	35	4	15	16	17	8	3	5	17	8	Spurn Head.
—	—	—	—	7·0	—	5·8	1·23	−1·34	0·97	22nd	7	4	0	0	0	0	2	11	0	—	0	3	0	8	10	12	9	0	14	21	19	Lincoln.
6·25	—	43	—	6·2	—	—	0·65	—	0·28	31st	9	4	0	0	0	0	4	11	0	—	0	57	0	24	24	6	0	3	18	9	9	Skegness.
3·55	—	24	—	6·9	—	5·1	0·72	−2·12	0·53	22nd	6	4	0	0	0	2	3	6	0	0	0	6	15	15	17	6	6	1	6	18	9	Hull.
6·18	—	43	—	—	—	—	1·07	−1·25	0·26	9th	8	5	—	—	—	—	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	Lowestoft.
6·31	—	43	—	7·7	—	5·7	0·63	—	0·14	23rd	11	7	0	0	0	2	0	10	0	—	0	32	0	22	6	5	10	14	19	5	12	Cromer.
5·80	+0·03	40	0	6·8	5·7	5·1	0·98	−1·92	0·69	31st	11	4	0	0	0	2	4	9	0	0	0	15	5	16	25	7	6	4	11	14	5	L. Mas'gh'm.
6·20	—	43	—	6·6	5·7	5·9	2·04	−0·39	0·72	11th	10	6	0	—	1	3	0	4	1	—	0	6	2	21	23	6	6	6	11	10	8	Yarmouth.
5·73	−0·43	40	− 3	7·0	—	4·7	1·03	−1·15	0·42	11th	10	5	0	0	0	4	4	10	0	—	0	0	7	17	12	15	3	3	9	18	9	Geldeston.
5·42	−0·68	38	− 4	7·2	—	4·8	1·39	−1·00	0·73	31st	11	6	0	0	0	3	5	11	1	0	0	3	15	31	6	3	8	0	15	6	9	Cambridge.
6·20	—	43	—	6·7	6·2	6·3	0·74	—	0·33	6th	8	6	0	0	0	0	4	0	0	0	0	7	2	13	22	14	6	8	10	10	8	Clacton.
4·62	—	32	—	8·3	—	6·0	0·69	—	0·26	31st	9	7	0	0	0	1	2	10	3	—	0	8	17	10	26	6	4	3	6	14	7	Woburn.
5·30	—	37	—	7·0	6·1	5·1	1·24	−1·31	0·34	31st	12	10	0	0	0	1	2	10	2	0	0	0	16	0	12	24	5	3	6	23	4	Bennington.
5·11	—	36	—	7·8	—	6·0	1·19	−1·40	0·46	11th	13	6	0	0	0	1	2	11	0	0	0	0	45	9	11	3	0	1	8	12	4	Berkh'mst'd.
4·07	—	28	—	7·0	—	6·0	0·95	—	0·36	22nd	11	6	0	0	0	1	2	11	0	5	0	0	9	19	3	20	0	7	6	24	5	Garforth.
3·82	—	26	—	6·9	6·8	5·3	1·28	—	0·37	22nd	8	7	0	0	0	2	4	13	0	0	0	5	29	8	12	5	2	0	4	21	12	Huddersf'ld.
3·46	—	24	—	7·6	—	6·5	1·23	−1·70	0·63	22nd	8	5	0	0	0	3	0	13	1	0	0	6	20	24	8	1	0	3	9	15	13	Sheffield.
3·24	−1·50	22	−11	8·0	8·2	6·4	1·43	−1·11	0·80	22nd	8	6	0	0	0	2	1	15	2	1	0	0	15	16	15	3	6	2	19	8	9	Worksop.
4·78	—	33	—	6·5	5·6	4·6	2·01	−2·65	0·94	22nd	13	9	0	0	1	1	3	7	0	0	0	0	5	4	14	8	4	1	7	23	27	Buxton.
4·62	—	32	—	7·4	—	5·6	0·79	−1·78	0·25	29th	11	6	0	0	0	4	4	13	6	0	0	14	37	15	3	2	3	6	6	15	6	Belvoir C.
4·20	—	29	—	6·9	—	—	0·56	−2·01	0·12	22nd	12	5	0	0	0	0	5	17	0	0	0	9	3	9	30	15	0	0	15	6	15	Coventry.
4·71	—	33	—	6·9	6·0	—	0·57	—	0·26	31st	7	4	0	0	0	3	1	11	0	0	—	—	0	15	12	21	3	0	5	12	25	Thrapston.
3·98	—	27	—	7·8	7·0	5·7	1·60	−1·01	0·77	22nd	11	5	0	—	0	3	2	12	1	0	0	14	0	9	21	12	4	3	15	23	6	Nottingham.
4·01	—	28	—	7·0	—	7·7	1·05	−1·87	0·28	22nd	11	9	0	0	0	0	2	16	0	2	0	3	30	13	8	19	0	0	5	13	5	Birmingh'm.
4·89	−1·08	34	− 8	6·8	—	—	0·91	−1·47	0·20	24th	11	8	0	0	0	1	—	—	3	0	0	12	16	16	20	3	4	5	12	8	9	Oxford.
							0·80	−1·68																							
5·42	—	38	—	7·2	—	6·0	1·88	−0·99	0·96	9th	11	8	0	—	0	0	4	13	0	—	0	0	30	9	15	15	2	1	3	15	3	Bath.
—	—	—	—	7·1	—	6·5	2·54	—	0·97	29th	8	6	0	0	0	2	2	13	0	1	0	0	0	27	15	4	6	0	2	31	8	Shrewsbury.
—	—	—	—	6·9	—	6·5	1·30	—	0·75	22nd	9	3	0	0	0	2	3	15	0	0	0	3	52	8	6	3	2	0	13	1	8	Wistanstow.
—	—	—	—	6·6	—	4·7	1·47	—	0·36	9th	12	7	0	0	0	0	5	7	0	0	0	3	34	11	6	13	2	9	10	5	3	Bromyard.
4·91	—	34	—	2·7	—	4·8	1·23	−1·45	0·45	16th	8	6	0	0	0	1	4	0	0	0	0	20	16	8	12	0	4	3	17	4	29	Cheltenham.
4·91	—	34	—	7·1	—	4·6	1·06	−1·37	0·40	31st	11	7	0	0	0	0	5	10	0	—	0	2	51	0	9	3	2	4	14	4	6	Reading.
—	—	—	—	6·5	—	5·3	1·38	−1·33	0·48	31st	11	8	0	0	0	1	2	4	1	0	0	17	0	24	9	3	6	3	15	11	22	Salisbury.
4·71	—	33	—	7·4	7·0	—	1·35	−1·03	0·59	31st	9	6	0	0	0	1	0	14	0	0	0	5	6	13	24	9	8	1	6	12	14	Grayshott.
4·73	—	33	—	6·8	6·3	—	2·00	—	0·71	31st	11	8	0	0	0	2	3	13	0	—	0	12	1	5	25	8	10	6	6	8	24	Midhurst.
5·80	−1·20	40	− 9	7·0	—	—	2·39	—	1·41	31st	11	9	0	0	0	2	4	17	0	0	0	15	15	0	3	45	0	0	6	24	0	Brighton.
5·61	—	39	—	5·3	—	—	1·78	−0·50	0·98	31st	8	7	0	0	0	0	8	8	0	0	0	45	0	15	12	18	15	3	3	12	15	Portsmouth.
5·98	−0·73	42	− 5	5·0	—	4·2	2·21	−0·36	1·30	31st	11	5	0	0	0	0	9	7	0	—	0	0	7	11	30	9	6	0	6	12	12	Eastbourne.
5·97	—	42	—	6·0	—	4·7	1·81	—	0·86	31st	12	9	0	—	—	3	6	7	1	0	0	29	6	16	25	0	6	2	21	2	15	Dover.
—	—	—	—	7·6	7·1	6·7	2·28	+0·30	1·11	31st	9	6	0	—	—	4	0	8	2	—	0	48	0	9	36	7	1	5	21	8	6	Dungeness.
5·90	−0·97	41	− 7	5·8	—	4·0	2·34	−0·13	1·38	31st	9	7	0	0	0	3	3	5	0	0	0	20	4	11	19	16	8	1	15	14	5	Hastings.
5·50	−1·21	38	− 9	5·6	—	4·1	2·08	−0·68	1·15	31st	10	7	0	0	0	1	7	8	0	0	0	0	0	0	32	0	7	0	18	3	33	S'mpton.
5·78	−0·90	40	− 7	6·9	5·2	—	1·30	−0·98	0·57	31st	13	7	0	0	0	2	2	8	0	—	0	18	6	9	12	16	15	9	13	8	5	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.								EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.											
						Mean of				Absolute Maximum and Minimum.						Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
			Station Level.	Diff. from Av.	Mean Sea Level.	Max A.	Min. B.	Mean of A and B.	Difference from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
LONDON.																											
p Tottenham... ¶§	9, –, 9	55	0·004	—	0·057	70·2	53·9	62·1	−0·2	81	28th	47	26th	—	61·1	61·8	—	60·3	4·4	—	3·2	·416	—	·427	75	—	81
p Hampstead ...	9, –, 9	453	9·597	—	0·074	67·6	52·6	60·1	—	78	28th	48	10, 25	—	—	59·9	—	58·6	4·0	—	3·3	·394	—	·393	76	—	80
a Camden Square ...	9, –, 9	123	9·950	—	0·074	72·2	53·2	62·7	−0·6	83	28th	45	25th	61·8	58·0	62·0	—	59·7	4·6	—	3·1	·410	—	·416	74	—	82
a Westminster ...	9, 3, –	—	—	—	—	69·8	54·6	62·2	−0·2	79	28th	48	25th	—	—	61·9	68·0	—	3·0	6·6	—	·456	·453	—	82	66	—
a South Kensington*	9, 3, 6	70	9·990	—	0·066	69·7	55·8	62·8	—	79	28th	51	10th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·890	—	0·061	71·1	52·0	61·6	+0·1	80	21st	45	25th	—	60·4	61·4	67·6	58·2	4·4	8·3	2·7	·405	·399	·404	75	59	83
			9·888	+·088	0·061			60·0	−1·6																		
Kew ... ¶§	9, 3, 9	34	0·031	+·094	0·065	69·2	53·6	61·4	−0·3	79	28th	46	26th	60·6	57·9	60·7	67·3	60·2	4·2	8·0	3·5	·406	·410	·418	76	61	80
			0·027	+·092	0·063			60·8	−0·4																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	9·220	—	0·053	63·3	46·2	54·8	—	74	3rd	36	8th	—	—	56·1	61·5	53·0	3·4	6·2	2·3	·359	·367	·344	79	67	85
p Poltalloch ... § ¶	9, –, 9	135	9·915	—	0·057	63·6	47·6	55·6	−1·9	70	29th	39	11th	—	—	57·9	—	54·9	2·9	—	1·9	·394	—	·376	82	—	88
a Glasgow	7, 1, 9	355	9·677	—	0·060	64·3	49·0	56·7	−0·4	72	2nd	42	28th	—	—	52·3	61·2	55·2	1·1	5·2	2·2	·362	·381	·373	92	71	86
p Rothesay ... § ¶	9, –, 9	76	9·981	—	0·058	65·9	50·5	58·2	+0·9	74	2nd	45	6, 10, 19	—	56·0	58·4	—	55·1	3·4	—	2·3	·388	—	·369	79	—	85
a Colmonell ... § ¶	9, 3, –	150	9·923	—	0·087	65·9	49·3	57·6	+0·2	73	20th	35	8th	—	—	59·0	63·6	—	2·3	4·1	—	·427	·452	—	86	77	—
p Dumfries ... § ¶	9, –, 9	155	9·931	—	0·095	66·1	50·6	58·4	−0·3	78	29th	42	7, 8, 20	60·5	59·1	58·2	—	56·6	3·9	—	2·8	·372	—	·378	77	—	82
p Cally ... § ¶	9, –, 9	120	—	—	—	66·1	47·0	56·6	−0·2	80	3rd	38	7th	—	—	60·2	—	55·7	3·4	—	2·5	·415	—	·374	80	—	84
p Douglas ... ¶§	9, –, 9	284	9·775	—	0·078	63·9	51·3	57·6	+0·3	74	29th	46	20, 21	—	—	58·7	—	55·3	2·4	—	1·4	·425	—	·404	85	—	91
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	0·031	—	0·074	65·6	52·1	58·9	−0·6	75	29th	41	19th	62·5	60·3	60·6	64·5	57·6	4·0	6·1	2·3	·412	·416	·409	77	68	85
p Manchester (City)	9, –, 9	195	9·871	—	0·075	67·1	53·5	60·3	—	79	29th	44	5th	60·7	60·9	58·5	—	59·3	3·2	—	3·4	399	—	·408	81	—	80
p „(WhitworthPk.)¶	9, –, 9	127	9·927	—	0·058	67·1	51·5	59·3	—	79	29th	42	5th	—	—	58·6	66·2	58·6	1·7	—	1·2	·440	—	·454	90	—	92
p Darwen	9, –, 9	730	9·297	—	0·074	65·5	49·9	57·7	—	80	3rd	41	5th	60·5	56·4	58·7	—	55·5	3·8	—	1·8	·382	—	·392	78	—	88
p Egremont	9, –, 9	354	9·692	—	0·067	64·9	50·6	57·8	—	76	29th	41	7th	60·6	56·9	59·3	—	55·3	2·9	—	1·6	·420	—	·397	83	—	90
p Aspatria ... ¶§	9, –, 9	254	9·792	—	0·060	66·5	50·3	58·4	+0·6	79	29th	42	18th	59·3	55·2	59·3	—	55·6	3·3	—	1·5	·408	—	·405	80	—	90
v Newton Rigg ¶§	9, –, 9	559	9·460	—	0·057	66·8	47·0	56·9	+0·1	79	3rd	37	19th	60·2	56·6	56·6	—	56·2	2·4	—	2·2	·389	—	·388	84	—	86
p Stonyhurst ¶§	–, –, 9	363	—	—	—	65·4	50·5	58·0	−0·3	76	3rd	41	5th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·997	—	0·070	65·5	51·5	58·5	−0·9	75	29th	39	19th	59·6	55·7	61·0	—	57·2	4·4	—	2·5	·404	—	·399	75	—	84
p Liverpool (Bid.) ¶	9, –, 9	202	9·863	—	0·074	64·9	54·0	59·5	−0·4	73	29th	48	19th	—	—	59·4	—	58·0	3·9	—	2·6	·390	—	·404	77	—	83
p Llandudno... ¶§	9, –, 9	32	—	—	—	66·3	53·5	59·9	−0·5	71	29th	46	20th	—	—	61·2	—	59·7	3·7	—	3·4	·423	—	·408	79	—	80
a Holyhead ... ¶	7, 1, 9	48	0·056	+·143	0·074	65·0	54·2	59·6	+0·4	74	28th	48	8, 20	—	—	56·9	62·5	58·0	1·5	3·9	2·0	·418	·437	·421	91	77	87
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	0·053	—	0·079	65·4	51·1	58·3	—	73	28th	38	20th	61·7	58·9	61·2	—	57·3	2·3	—	0·8	·465	—	·446	86	—	95
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·464	—	0·086	67·9	48·3	58·1	−0·4	79	3rd	35	6th	59·5	55·8	58·5	—	—	2·1	—	—	·426	—	—	86	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·914	+·127	0·076	65·3	54·7	60·0	+0·6	73	28th	49	8, 20	—	—	57·5	62·1	58·2	0·5	1·8	0·6	·458	·496	·467	96	89	96
a Portland Bill ¶	7, 1, 9	23	0·032	+·090	0·066	66·1	56·6	61·4	−0·6	74	27th	51	6th	—	—	59·4	64·1	60·2	2·5	4·0	2·7	·428	·463	·435	85	78	84
p Plymouth ... ¶§	9, 3, 9	116	9·949	—	0·067	69·0	55·7	62·4	+1·2	77	14th	47	25th	64·0	—	63·6	66·6	61·0	4·3	6·0	2·8	·445	·446	·445	76	69	83
Falmouth ... ¶§	7, 1, 6	183	9·895	—	0·084	67·6	55·5	61·6	+1·1	74	14th	46	7th	63·5	61·2	59·0	65·6	63·2	1·9	5·8	4·1	·444	·442	·449	89	70	77
p Cardiff	9, –, 9	216	9·839	—	0·065	69·3	53·6	61·5	+0·9	79	3rd	45	9th	61·8	59·3	60·9	—	60·3	3·9	—	3·6	·411	—	·411	77	—	79
a Newquay ... §	7, –, 6	161	9·934	+·109	0·075	65·0	55·3	60·2	−0·6	74	26th	43	7th	62·6	—	60·2	—	62·3	2·3	—	3·3	·447	—	·452	86	—	80
p Woolacombe ...	9, –, 9	120	9·967	—	0·090	67·0	56·4	61·7	−1·0	75	1st	49	7th	—	—	62·3	—	61·0	3·2	—	2·5	·458	—	·455	82	—	84
a Princetown ...	9, 3, –	1360	8·600	—	—	64·4	51·3	57·9	—	73	3rd	41	8th	—	—	58·0	62·3	—	3·4	5·8	—	·383	·383	—	79	69	—
p Sheepstor	9, 3, 9	730	9·300	—	0·075	67·8	48·3	58·1	—	76	1, 2, 3	38	25th	—	—	61·0	65·6	55·0	3·6	5·9	1·3	·426	·441	·402	79	70	92
p Teignmouth ...	9, 3, 9	20	0·056	—	0·072	69·9	56·3	63·1	—	77	14, 30	48	25th	—	—	62·3	67·7	62·8	4·6	7·2	4·6	·421	·437	·429	75	65	74
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·814	+·203	0·071	60·7	52·8	56·8	−0·9	67	1st	49	19th	—	—	55·4	59·3	57·2	1·3	1·7	1·3	·401	·451	·429	92	90	91
West. *a* Blacksod Point ¶	7, 1, 9	41	0·061	+·203	0·107	63·5	53·2	58.4	+0·2	69	2nd	48	10, 17	—	—	57·2	61·5	57·7	1·6	3·7	1·5	·420	·427	·431	90	78	90
West. *p* Markree Castle ¶§	9, –, 9	127	9·968	—	0·100	65·7	48·2	57·0	−0·1	73	14th	38	5th	60·7	56·8	58·5	—	54·6	2·4	—	1·6	·417	—	·380	85	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	0·036	+·172	0·077	62·9	50·8	56·9	−0·6	71	25th	44	20th	—	—	54·0	60·4	55·8	1·5	3·9	2·3	·374	·404	·381	90	77	85
East. *p* Armagh ... ¶§	9, –, 9	202	9·861	—	0·073	66·9	49·2	58·1	+0·3	77	2nd	40	19th	61·0	58·1	59·8	—	55·1	3·3	—	2·4	·416	—	·372	81	—	84
East. *a* Belfast	9, –, 9	55	—	—	—	65·7	50·2	58·0	—	77	2nd	40	8th	—	—	60·8	—	56·6	4·5	—	2·9	·398	—	·378	74	—	81
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	67·2	48·9	58·1	—	77	2nd	39	19th	60·3	56·9	59·2	—	56·1	2·7	—	1·3	·420	—	·412	84	—	91
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	67·5	53·1	60·3	—	77	14th	46	12th	61·6	58·6	61·5	—	59·1	4·7	—	3·1	·405	—	·414	74	—	82
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·929	—	0·097	67·3	47·7	57·5	−0·2	76	14th	37	19th	—	—	60·7	—	54·7	4·2	—	1·9	·406	—	·384	76	—	88
East. *p* „ (City)... ¶	9, –, 9	53	0·032	—	0·086	66·2	53·2	59·7	0·0	75	14th	47	6, 12, 20	—	—	59·5	—	58·6	3·4	—	2·6	·409	—	·417	80	—	84
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·904	+·152	0·096	66·3	49·9	58·1	−0·5	77	2nd	43	6, 7	60·8	58·9	54·0	64·2	63·9	1·2	4·5	4·6	·382	·449	·441	92	75	74
West. Valencia ... ¶§	9, 3, 9	45	0·080	+·174	0·125	64·9	54·7	59·8	+0·5	71	3rd	50	7th	—	—	60·5	63·8	59·3	2·8	4·5	2·5	·445	·448	·432	84	76	85
			0·077	+·175	0·126			59·9	+0·9																		
West. *a* Roche's Point ¶	7, 1, 6	42	0·065	+·163	0·115	67·0	54·6	60·8	+1·1	76	14th	47	25th	—	—	57·4	65·0	63·3	1·7	4·6	4·0	·420	·459	·448	89	75	77
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	0·049	—	0·098	67·7	50·3	59·0	—	77	2nd	41	12th	63·0	—	60·0	65·7	57·8	2·3	5·0	1·3	·444	·460	·440	86	73	92
11. ENGLISH CHANNEL.																											
a Scilly .. ¶§	7, 1, 9	152	9·919	+·105	0·081	66·3	56·6	61·5	+0·3	70	1, 2, 16	52	9th	—	—	59·4	65·0	59·0	1·2	3·8	1·1	·468	·484	·464	93	79	93
a Jersey ... ¶§	7, 1, 9	36	0·043	+·072	0·081	69·0	56·5	62·8	−0·4	76	15, 26	46	7th	—	—	60·7	66·0	61·3	2·3	5·3	2·9	·456	·455	·447	86	72	82
p Guernsey (Brooklyn).	9, –, 9	311	9·737	—	0·065	67·0	55·8	61·4	−0·5	74	29th	50	6, 7	63·1	60·9	61·2	—	58·5	2·9	—	1·8	·452	—	·440	83	—	89
a Gibraltar ...	7, 1, 9	53	9·959	—	0·015	79·7	65·7	72·7	—	86	1st	60	3rd	—	—	67·9	76·6	71·3	3·3	7·7	4·7	·559	·592	·582	82	66	76

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of AUGUST, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
4·78	—	33	—	7·2	—	6·5	1·76	—	0·60	31st	11	7	0	0	0	3	1	11	1	0	0	0	5	13	24	9	5	6	12	10	9	Tottenham.
5·07	—	35	—	7·5	—	5·7	1·36	—	0·44	31st	13	10	0	0	0	2	1	10	0	0	0	5	31	8	19	8	0	0	13	8	6	Hampstead.
4·53	—	32	—	6·7	—	—	1·43	−0·96	0·52	31st	11	9	0	0	0	2	6	17	0	0	—	—	21	30	15	0	0	0	3	12	12	Camden Sq.
4·57	−0·85	32	− 6	—	—	—	1·20	−1·19	0·41	31st	10	9	0	—	—	2	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
4·42	—	31	—	7·1	—	6·2	1·26	—	0·43	31st	11	9	0	—	—	1	2	11	1	0	0	2	11	21	19	1	6	15	6	3	S.Kensingtn
4·61	−1·98	32	−13	7·1	7·0	5·2	2·07	−0·27	0·78	31st	11	10	0	0	0	1	3	10	1	0	0	1	24	9	15	13	4	0	10	16	2	Greenwich.
4·52	−1·54	32	−10	7·7	6·5	5·7	1·44	−0·83	0·65	31st	9	8	0	0	0	3	1	11	2	0	0	6	22	16	14	11	0	2	18	5	5	Kew.
4·75	—	32	—	7·5	7·7	6·5	2·35	—	0·73	29th	10	6	0	0	0	1	1	15	0	—	0	23	27	13	11	3	0	6	14	8	11	Eskdalemuir
—	—	—	—	7·0	—	6·0	3·03	−1·83	1·37	21st	10	8	0	0	0	0	5	11	3	—	0	9	8	13	21	0	0	5	19	21	6	Poltalloch.
4·62	+0·36	31	+ 2	6·7	7·1	6·4	1·45	−2·61	0·32	21st	13	9	0	—	0	0	0	9	5	0	0	10	10	2	9	12	2	4	19	30	5	Glasgow.
—	—	—	—	6·2	—	5·0	2·14	−2·73	0·61	21st	14	9	0	0	0	0	5	9	3	—	0	7	40	11	4	6	2	1	5	16	8	Rothesay.
—	—	—	—	6·1	—	—	2·00	−2·12	0·48	21st	11	9	0	0	0	2	5	8	2	0	0	9	12	6	3	9	3	0	0	39	21	Colmonell.
5·13	—	35	—	6·1	—	5·4	1·16	−2·81	0·61	21st	7	6	0	0	0	0	3	6	0	0	0	0	0	6	25	5	7	2	15	12	21	Dumfries.
—	—	—	—	—	—	—	1·80	−2·93	0·99	21st	11	8	0	0	0	1	—	—	0	—	0	2	0	22	6	2	4	2	22	3	32	Cally.
6·64	+0·99	45	+ 6	6·4	—	4·8	0·78	−3·35	0·31	21st	9	6	0	0	0	3	4	6	5	0	0	18	1	9	11	4	9	3	9	20	27	Douglas.
6·35	+0·83	44	+ 6	6·3	4·9	5·8	1·49	−2·22	0·84	22nd	9	7	0	0	0	0	5	7	1	1	0	37	5	8	9	13	5	2	7	20	24	Southport.
3·27	—	22	—	5·2	—	4·2	2·38	−1·36	0·85	22nd	11	10	0	0	0	0	2	2	0	0	0	3	0	17	12	3	3	7	14	21	16	Manchester.
3·79	—	26	—	7·2	5·7	5·0	2·06	—	0·82	22nd	11	9	0	0	0	0	5	10	2	—	0	5	21	4	12	6	0	7	18	19	6	Whitwth Pk.
4·90	—	34	—	7·6	—	7·6	2·80	—	0·98	22nd	13	8	0	0	0	0	0	15	0	0	0	11	3	2	10	5	7	11	7	37	11	Darwen
5·85	—	40	—	5·5	—	5·0	3·05	—	1·42	21st	11	10	0	0	0	0	9	10	1	0	0	9	17	26	1	0	3	6	9	9	22	Egremont.
5·58	—	38	—	6·1	—	6·1	2·84	−1·61	1·96	21st	11	7	0	0	0	0	5	11	0	0	0	11	21	15	11	6	0	6	13	12	9	Aspatria.
5·53	+0·63	38	+ 5	6·9	—	6·1	1·61	−1·87	0·67	21st	12	8	0	0	0	0	2	10	3	0	0	11	24	9	6	3	6	14	18	13	0	N'wt'n Rigg.
5·25	+0·35	36	+ 2	—	—	—	2·29	−2·96	0·73	22nd	11	0	0	0	0	0	0	0	2	0	0	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
6·43	+1·17	44	+ 8	6·3	—	5·7	1·79	−1·81	0·67	8th	7	5	0	0	0	0	4	9	0	0	0	32	1	6	8	18	7	5	9	17	22	Blackpool.
5·94	+0·55	41	+ 4	5·9	—	5·7	1·83	−1·25	0·77	22nd	13	9	0	0	0	0	4	8	2	0	0	5	0	5	8	10	9	1	12	30	18	Liverpool.
7·02	—	48	—	5·6	—	5·1	2·26	−0·77	0·71	22nd	8	7	0	0	0	0	6	7	0	—	0	6	6	2	5	25	3	10	15	22	5	Llandudno.
6·60	—	45	—	6·2	5·0	5·4	1·39	−1·84	0·69	22nd	11	8	0	—	0	1	2	4	9	—	0	13	0	26	18	6	2	2	18	11	10	Holyhead.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
6·45	—	44	—	6·1	—	5·3	2·33	—	1·03	22nd	12	10	0	0	0	1	6	7	0	0	0	6	60	5	12	0	0	4	7	5	0	Dwyran.
5·25	—	36	—	7·9	—	—	2·30	—	0·83	22nd	10	10	0	0	0	1	1	20	2	1	0	0	39	6	15	9	0	0	9	15	0	Llangamch.
5·69	−0·54	40	− 3	6·3	5·3	6·0	1·38	−1·68	0·60	22nd	7	5	0	—	0	1	3	4	5	—	0	19	6	20	17	9	2	2	6	18	13	Pembroke.
—	—	—	—	5·2	5·1	4·9	2·31	—	1·76	31st	8	4	0	—	0	1	4	2	1	—	0	39	4	6	19	13	5	0	9	25	12	Portl'nd Bill
5·42	−0·93	38	− 6	6·8	6·8	5·1	1·16	−1·86	0·39	8th	9	6	0	0	0	1	3	9	1	0	0	12	14	15	5	12	3	8	13	10	13	Plymouth.
5·70	−1·17	40	− 8	6·6	6·1	6·0	1·16	−2·33	0·50	11th	10	6	0	0	0	2	5	11	1	—	0	5	27	19	6	5	4	4	5	9	14	Falmouth.
5·39	—	38	—	—	—	—	0·97	−3·58	0·24	9th	13	9	0	0	0	1	—	—	0	0	0	17	33	0	21	7	9	0	3	12	8	Cardiff.
5·40	−1·21	38	− 8	6·5	—	6·2	0·94	−1·84	0·34	11th	13	8	0	—	0	0	6	15	10	—	0	14	6	20	9	9	6	0	9	22	12	Newquay.
5·63	−0·31	39	− 2	5·3	—	4·5	1·19	−1·91	0·52	22nd	9	5	0	0	0	0	6	7	1	—	0	8	15	12	12	15	2	1	9	26	1	Woolac'mbe.
—	—	—	—	7·1	7·0	—	2·72	—	0·95	16th	11	10	0	0	0	3	4	14	6	—	0	6	0	3	33	6	3	0	5	4	39	Princetown.
—	—	—	—	5·8	5·8	5·1	1·89	—	0·40	31st	13	11	0	0	0	5	6	9	5	—	0	17	27	8	15	11	0	1	10	7	14	Sheepstor.
5·43	—	38	—	5·6	5·2	5·6	0·65	—	0·29	31st	6	4	0	0	0	0	4	6	3	0	0	17	6	14	12	16	8	7	4	11	15	Teignmouth
—	—	—	—	6·3	4·9	5·9	1·53	−1·98	0·48	23rd	11	10	0	—	0	0	3	7	4	—	1	37	0	22	12	9	2	4	13	15	16	Malin Head.
—	—	—	—	7·0	5·7	7·6	1·86	−3·02	0·38	15th	13	10	0	—	0	0	0	7	2	—	0	18	3	21	8	0	3	5	17	14	22	Blacksod Pt.
5·09	+0·93	35	+ 7	7·9	—	6·1	1·58	−2·71	0·31	20th	12	9	0	0	0	1	1	13	2	2	0	0	63	15	0	0	0	2	4	3	6	Markree Cas.
—	—	—	—	5·6	4·8	5·6	0·68	−2·77	0·31	21st	9	5	0	—	0	2	4	4	5	—	0	6	0	32	3	5	2	4	19	10	18	Donaghadee.
5·04	+0·85	34	+ 5	7·6	—	5·9	0·95	−2·63	0·26	21st	9	6	0	0	0	1	3	16	0	0	0	0	74	1	2	1	0	1	12	2	0	Armagh.
—	—	—	—	—	—	—	0·87	−2·74	0·30	21st	9	4	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·7	—	4·3	0·85	—	0·18	21st	11	9	0	0	0	1	4	3	0	—	0	5	13	10	14	5	3	6	12	13	17	Newtown-forbes.
5·40	—	37	—	6·4	—	5·9	0·94	—	0·37	9th	8	6	0	0	0	0	4	12	2	0	0	2	37	1	3	6	0	0	2	24	20	Dublin T. C.
5·45	+0·26	37	+ 1	6·2	—	5·6	0·74	−2·58	0·27	10th	10	5	0	0	0	0	4	9	0	0	0	1	34	7	9	7	2	0	9	17	8	Phœnix Pk.
—	—	—	—	5·3	—	5·6	0·94	−2·30	0·30	9th	10	6	0	0	0	0	4	8	0	0	0	6	7	12	20	6	0	0	7	23	18	Dublin (City).
4·38	−0·23	30	− 2	7·4	7·0	6·8	1·30	−2·67	0·31	10th	12	9	0	—	0	0	0	3	7	0	0	8	2	22	5	5	0	2	18	19	20	Birr Castle.
6·50	+1·56	45	+11	6·4	5·5	6·3	1·50	−3·64	0·43	21st	13	8	0	0	0	0	3	11	2	—	0	21	21	17	8	3	1	5	13	11	14	Valencia.
—	—	—	—	6·5	6·5	6·2	1·94	−2·25	0·91	29th	15	7	0	—	0	1	2	10	1	—	0	12	0	32	6	5	5	15	7	11	12	Roche's Pt.
4·30	—	30	—	6·9	7·2	5·4	1·92	—	0·44	30th	9	7	0	0	0	1	3	13	1	0	0	21	22	19	8	1	2	6	8	15	12	Limerick.
5·09	−2·26	36	−16	6·8	6·3	7·5	2·00	−0·63	1·47	11th	14	3	0	—	0	0	0	5	5	—	0	31	4	14	21	13	5	2	4	6	24	Scilly.
7·03	−0·81	49	− 6	6·5	5·6	4·7	0·57	−1·97	0·13	23rd	9	6	0	—	0	1	2	3	1	—	0	18	0	9	17	17	3	3	6	27	11	Jersey.
7·38	−0·59	52	− 4	6·5	—	4·5	1·31	−1·40	0·44	26th	10	5	0	0	0	1	3	6	9	0	0	15	12	3	28	3	3	0	2	36	6	Guernsey.
—	—	—	—	2·9	2·9	2·5	0·08	—	0·07	25th	2	0	0	0	0	1	17	3	0	0	0	23	2	0	0	29	5	0	11	33	13	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, AUGUST, 1913.

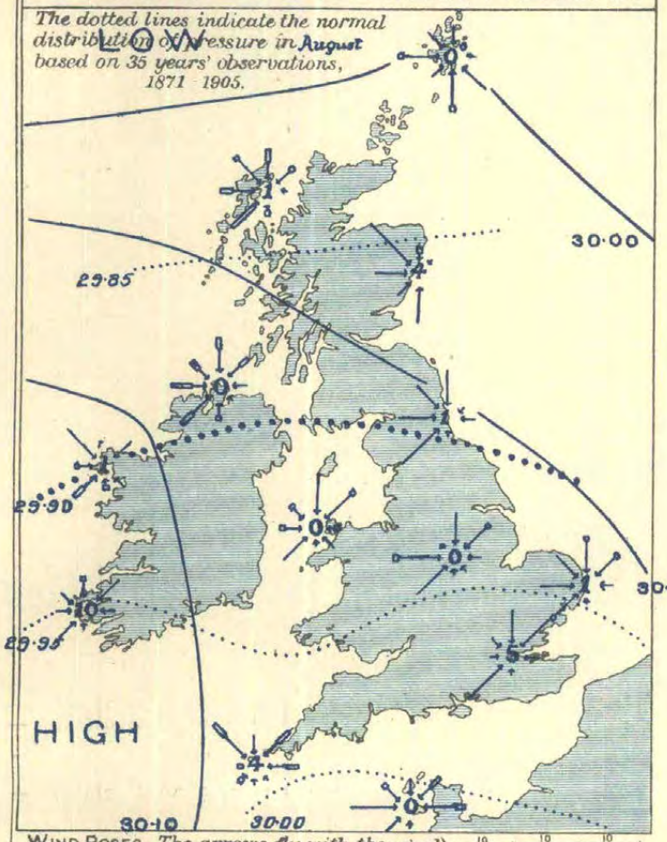
DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
	Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																									
v Baltasound ... S	31	58·0	48·3	53·2	—	62	28th	40	13th	54·6	—	1·05	—	0·49	21st	19	0	0	1	2	—	4·30	—	28	—
a Fortrose	69	62·6	50·3	56·5	—	71	16th	44	7, 13	—	—	0·61	—	0·23	24th	6	0	0	0	0	—	4·03	—	27	—
1. SCOTLAND, E.																									
a Crathes ... ... S §	140	66·6	48·0	57·3	—	79	2, 3	36	20th	58·2	55·2	1·38	—	0·52	16th	13	0	0	2	3	1	4·23	—	28	—
p Stonehaven	86	65·2	49·0	57·1	—	77	3rd	40	20th	—	—	1·32	—	0·30	30th	14	0	0	0	1	—	5·08	—	34	—
p Balruddery ... S §	276	68·4	46·7	57·6	—	80	3rd	37	7th	—	—	1·45	—	0·67	30th	10	0	0	0	0	0	5·54	—	37	—
a Carnoustie	39	65·0	49·2	57·1	—	82	3rd	40	7th	—	—	1·34	—	0·46	31st	14	0	0	0	0	—	5·25	—	35	—
a St. Andrews	20	66·8	48·6	57·7	—	79	2nd	32	18th	59·5	55·9	1·65	—	0·80	30th	9	0	0	1	0	3	5·06	—	34	—
2. ENGLAND, N.E.																									
a Alnwick Castle ... ¶	210	66·3	49·7	58·0	+ 0·7	78	3rd	40	5, 20	—	—	0·91	−2·30	0·29	29th	13	0	0	1	0	0	—	—	—	—
a Bellingham	848	66·2	48·0	57·1	—	81	3rd	40	8th	—	—	2·06	—	0·99	29th	10	0	0	0	2	—	—	—	—	—
a Tynemouth	90	65·8	50·4	58·1	—	76	2, 3	43	5th	58·3	55·9	0·77	—	0·16	21st	13	0	0	3	2	0	4·93	—	34	—
a Chopwellwood	445	65·9	48·1	57·0	—	80	4th	39	5th	—	—	0·74	—	0·18	22nd	13	0	0	1	0	7	4·32	—	29	—
a Ushaw	599	67·8	49·0	58·4	—	78	3rd	42	5th	—	—	1·83	—	0·90	29th	12	0	0	1	0	—	—	—	—	—
a Ampleforth	349	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a West Witton	605	66·0	48·8	57·4	—	82	3rd	38	5th	58·5	54·2	1·03	—	0·22	22nd	12	0	0	1	3	0	—	—	—	—
a Fulbeck ... ... ¶	180	68·5	48·9	58·7	− 1·9	80	3, 30	38	5th	—	—	0·97	−1·66	0·39	22nd	9	—	—	—	—	4	—	—	—	—
a Rauceby ... ... §	124	69·3	49·6	59·5	—	79	3rd	40	8th	61·3	57·1	0·23	−2·42	0·07	29th	5	—	—	—	—	—	4·55	—	31	—
3. ENGLAND, E.																									
a Norwich	93	68·2	50·4	59·3	—	81	30th	42	7th	60·7	—	1·53	—	0·54	11th	11	0	0	4	0	0	5·98	—	41	—
a Peterborough (Eye) ...	16	70·0	49·4	59·7	—	79	21st	38	8th	—	—	1·32	—	0·62	31st	12	0	0	3	3	—	—	—	—	—
a Ridgewell	269	68·7	50·4	59·6	—	79	28th	40	7th	—	—	0·85	—	0·48	31st	8	0	0	4	0	—	—	—	—	—
a Ipswich (Copdock) ...	164	68·3	49·9	59·1	—	81	30th	39	7th	59·5	57·6	0·77	—	0·21	23rd	13	0	0	2	0	1	5·14	—	36	—
a Felixstowe	10	66·2	53·4	59·8	− 2·0	78	21st	44	7th	—	—	0·72	—	0·28	11th	11	0	0	2	0	—	6·87	—	48	—
a Walton-on-Naze	68	65·1	53·5	59·3	—	75	30th	42	7th	—	—	1·03	—	0·41	11th	10	0	0	2	0	0	5·92	—	41	—
a Halstead	139	70·2	50·3	60·3	—	80	30th	37	7th	—	—	1·16	—	0·72	31st	9	0	1	1	0	—	—	—	—	—
a Chelmsford	134	70·2	49·4	59·8	—	78	28th	36	7th	—	—	0·80	—	0·53	31st	10	0	0	0	0	—	—	—	—	—
p Hemel Hempstead ...	535	67·4	49·9	58·7	—	75	26, 30	40	19th	—	—	1·16	—	0·37	31st	11	—	—	—	—	0	—	—	—	—
a Rothamsted ... ¶§	424	68·7	50·8	59·8	− 0·4	79	28th	41	25, 26	—	—	1·43	−1·16	0·50	31st	10	0	0	1	0	0	4·93	−1·23	34	− 9
a Shoeburyness	13	66·7	53·7	60·2	− 2·7	75	21st	44	7th	—	—	0·35	−1·40	0·12	30th	8	0	0	0	1	0	—	—	—	—
a Southend	90	69·0	55·3	62·2	—	77	21, 28	47	7th	63·8	—	0·26	−1·68	0·09	23rd	7	0	0	1	0	0	5·53	—	39	—
4. MIDLAND COUNTIES.																									
a Harrogate ... ... ¶§	476	65·2	49·4	57·3	− 0·7	79	3rd	40	5th	57·2	56·1	1·10	−1·73	0·24	22nd	9	0	0	1	0	0	4·65	—	32	—
a Bradford	439	65·2	50·1	57·7	—	79	3rd	39	5th	58·1	56·9	1·60	—	0·44	29th	7	0	0	0	0	0	4·59	—	31	—
a Meltham	513	65·2	49·6	57·4	—	77	3rd	37	5th	56·8	—	1·41	—	0·48	22nd	8	0	0	2	0	1	—	—	—	—
a Cheadle ... ... ¶	646	66·6	50·6	58·6	+ 0·7	73	21st	40	4th	—	—	2·19	−1·41	1·10	22nd	9	—	—	—	—	0	—	—	—	—
a Wellington	207	68·6	47·8	58·2	—	78	3rd	35	19th	—	—	1·69	—	0·82	22nd	10	0	0	0	0	—	—	—	—	—
a Bawtry ... ... ¶	65	68·9	49·1	59·0	− 0·8	82	3rd	39	4th	—	—	1·16	−1·33	0·65	22nd	6	—	—	—	—	—	—	—	—	—
a Matlock	636	67·4	49·5	58·5	—	81	3rd	38	5th	—	—	2·16	—	1·05	22nd	8	0	0	2	0	—	4·24	—	29	—
a Belper	222	68·8	49·3	59·1	—	83	3rd	41	5, 6, 21	—	—	1·75	—	0·68	22nd	12	0	0	1	0	—	—	—	—	—
a Belper (Quarry Bank) ...	280	66·7	50·7	58·7	—	78	3rd	42	5th	—	—	1·81	−1·43	0·68	22nd	11	0	0	1	0	—	—	—	—	—
a Mayfield (Staffs)	374	67·4	47·4	57·4	—	80	3rd	35	5th	—	—	1·64	—	0·84	22nd	12	0	0	2	1	0	4·88	—	34	—
a Strelley	377	67·7	50·5	59·1	− 0·2	79	22nd	41	5th	58·8	—	1·56	−1·31	0·83	22nd	10	0	0	5	1	—	3·90	−0·94	27	− 6
a Kingston-on-Soar... ...	125	68·9	48·2	58·6	—	81	3rd	36	5th	59·1	—	1·91	—	0·62	29th	11	0	0	1	0	—	—	—	—	—
a Sparkhill	425	70·4	49·2	59·8	—	81	3rd	41	5, 8	—	—	0·90	—	0·15	26th	13	0	0	2	0	3	—	—	—	—
p Rugby	379	70·7	49·0	59·9	0·0	83	3rd	38	19th	—	—	0·72	—	0·16	9th	9	0	0	0	0	0	—	—	—	—
a Raunds ... ... ¶	204	71·3	49·5	60·4	− 0·9	81	28th	38	8th	60·3	57·0	0·74	—	0·52	31st	8	0	0	2	1	0	4·74	—	33	—
a Malvern	520	68·5	52·8	60·7	—	78	3rd	47	5th	—	—	2·06	—	0·45	16th	14	—	—	—	—	—	4·93	—	34	—
a Ross...	214	70·3	51·5	60·9	—	82	3rd	41	10th	—	—	1·02	—	0·24	22nd	14	0	0	0	1	—	—	—	—	—
a Hereford ... ... ¶	291	69·6	50·3	60·0	− 0·3	80	3rd	39	20th	—	—	1·31	−1·27	0·41	22nd	13	0	0	1	0	0	—	—	—	—
a Leamington	165	68·9	51·1	60·0	—	80	3, 28	41	19th	64·5	59·5	0·94	—	0·31	11th	11	0	0	0	0	3	4·15	—	29	—
a Cirencester... ... ¶§	446	69·2	51·4	60·3	+1·3	79	3rd	39	25th	60·8	58·0	1·13	−2·02	0·32	16th	8	—	—	—	—	0	4·58	−1·29	32	− 9
a High Wycombe	249	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. ENGLAND, S.E.																									
a Malmesbury	235	69·6	50·1	59·9	—	80	28th	40	5, 10, 26	—	—	0·62	—	0·26	26th	7	0	0	0	0	0	—	—	—	—
a Wokingham	216	69·6	—	—	—	80	28th	—	—	—	—	1·02	—	0·43	31st	9	0	0	0	0	—	—	—	—	—
a Marlborough ... ¶§	424	69·3	47·6	58·5	− 0·9	79	28th	36	9, 26	—	57·4	0·94	−1·92	0·30	9th	8	—	—	—	—	1	4·55	−1·19	32	− 8
a Bucklebury	409	68·6	50·7	59·7	—	79	28th	42	25th	—	—	1·31	—	0·41	31st	10	0	0	0	0	0	—	—	—	—
a New Malden	39	70·4	52·0	61·2	—	81	28th	43	25, 26	61·5	58·8	1·65	—	0·77	31st	9	0	0	3	3	0	4·18	—	29	—
a Croydon (Addington) ...	472	67·5	52·5	60·0	—	77	28th	47	7th	—	—	2·15	—	1·06	31st	13	0	0	2	2	—	—	—	—	—
a Wallington	144	68·9	51·8	60·4	—	78	28th	45	9, 25, 26	61·6	60·4	2·08	—	0·97	31st	12	0	0	5	2	0	—	—	—	—
a Woking	180	71·2	50·8	61·0	—	83	28th	39	26th	61·3	—	1·72	—	0·75	31st	8	—	—	—	—	0	—	—	—	—
a Margate ... ... ¶§	35	66·4	54·5	60·5	− 1·8	74	21st	46	6th	59·3	56·6	0·34	−1·71	0·08	5th	13	0	0	1	0	0	5·11	−1·02	36	− 7
a Aldershot	231	68·2	49·5	58·9	—	81	28th	38	26th	—	—	1·28	—	0·46	31st	9	0	0	1	2	—	—	—	—	—
a Wisley ... ... ¶§	150	69·6	51·4	60·5	− 2·0	81	28th	41	26th	61·2	58·5	1·44	—	0·79	31st	9	0	0	1	1	0	4·60	—	32	—
a Basingstoke	289	68·8	50·8	59·8	—	80	28th	40	25, 26	59·6	57·0	1·14	—	0·51	31st	9	0	0	1	2	0	—	—	—	—
a Sevenoaks	509	67·7	51·5	59·6	—	79	28th	45	7, 9	60·2	57·1	1·40	—	0·47	31st	13	0	0	1	0	0	—	—	—	—
a Tunbridge Wells ... ¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield	320	68·3	51·1	59·7	—	84	28th	44	9th	—	—	1·29	—	0·42	31st	9	0	0	3	0	0	—	—	—	—
Ramsgate	168	65·4	54·1	59·8	—	74	30th	45	6th	—	—	0·92	—	0·36	9th	11	0	0	2	0	—	5·42	—	38	—
a Folkestone...	121	66·7	55·6	61·2	—	76	28th	48	6, 7	—	56·0	3·69	+1·25	1·72	31st	12	0	0	3	0	—	6·10	—	43	—
a Bexhill	27	66·7	55·6	61·2	—	77	27th	51	7, 12, 25	63·6	—	2·40	—	1·36	31st	9	0	0	1	0	0	6·05	—	42	—
a Worthing ... ... §	36	68·3	53·8	61·1	− 0·4	77	27th	47	6, 24	63·1	60·2	3·94	+1·63	2·47	31st	10	0	0	3	0	0	5·72	—	40	—
a Bognor	20	67·2	53·8	60·5	—	76	27th	47	25th	—	57·8	3·26	—	1·34	31st	10	0	0	2	0	—	5·98	—	42	—
a Selsey Bill	21	68·0	52·8	60·4	—	76	27th	43	6, 8	—	—	4·28	—	1·88	31st	12	0	0	3	1	0	5·66	—	40	—
a Totland Bay	140	67·1	54·6	60·9	− 0·8	73	26th	46	6th	—	—	1·74	−0·64	1·14	31st	7	0	0	0	0	0	5·80	—	40	—
a Sandown	20	69·5	55·4	62·5	—	77	21st	49	9th	—	—	1·52	—	1·01	31st	11	—	—	—	—	—	5·78	—	40	—
p Bournemouth	145	69·4	52·2	60·8	—	75	1, 27	44	6th	61·6	60·7	1·80	—	0·84	31st	7	—	—	—	—	—	5·86	—	41	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

MONTHLY WEATHER CHARTS, AUGUST 1913.

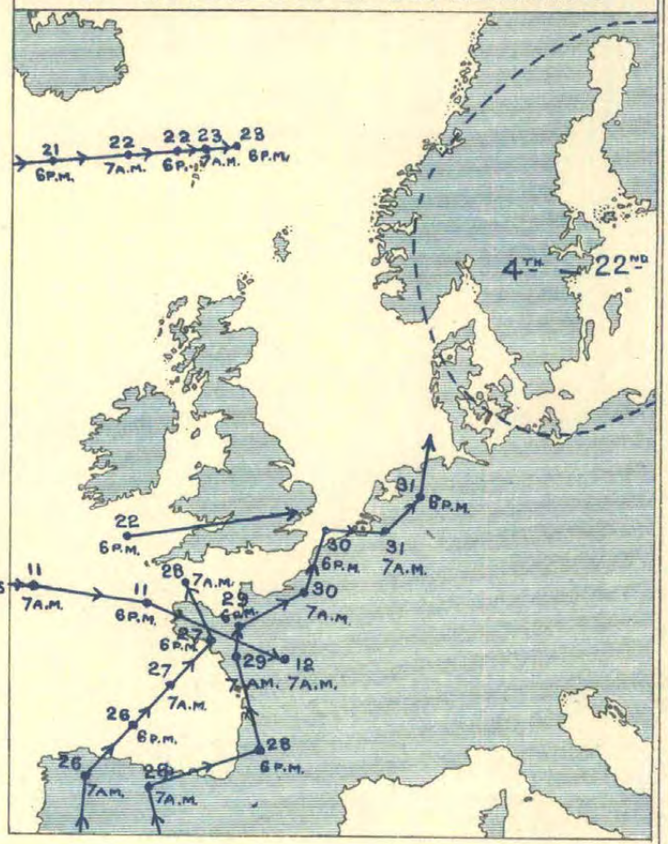
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in August based on 35 years' observations, 1871–1905.



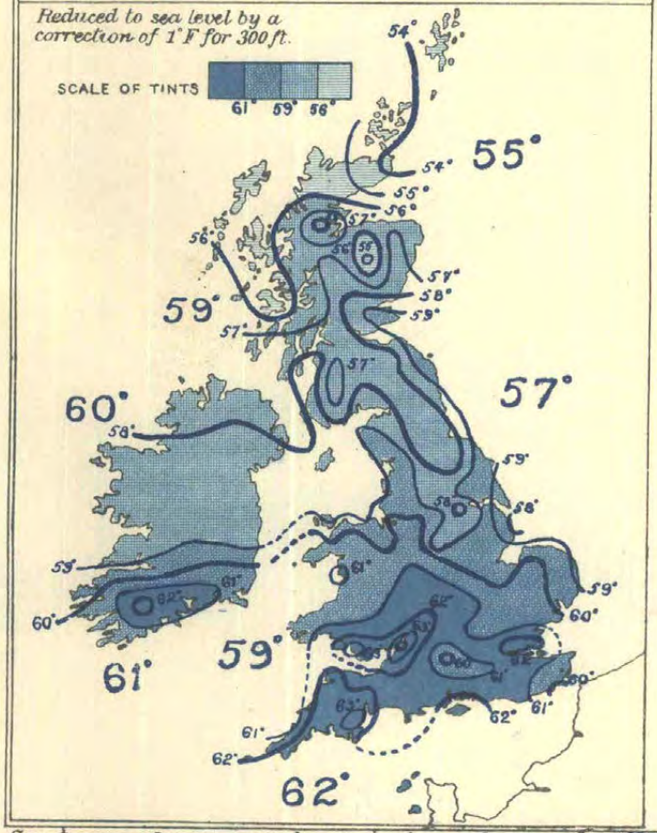
WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* 10 10 10 — LIGHT MODERATE STRONG — 30 Obsns. = 1 Inch

2. MOVEMENTS OF DEPRESSIONS.



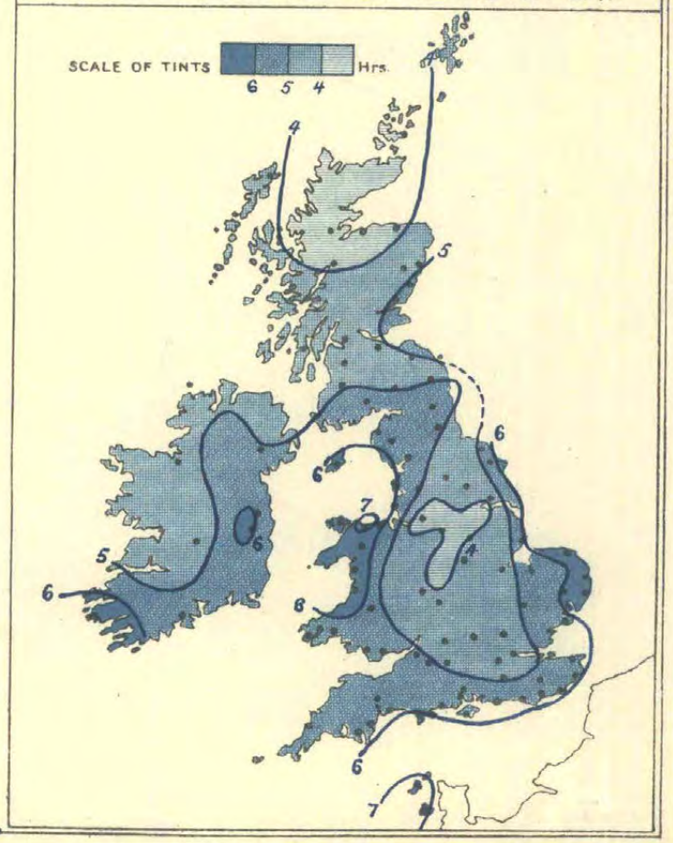
3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

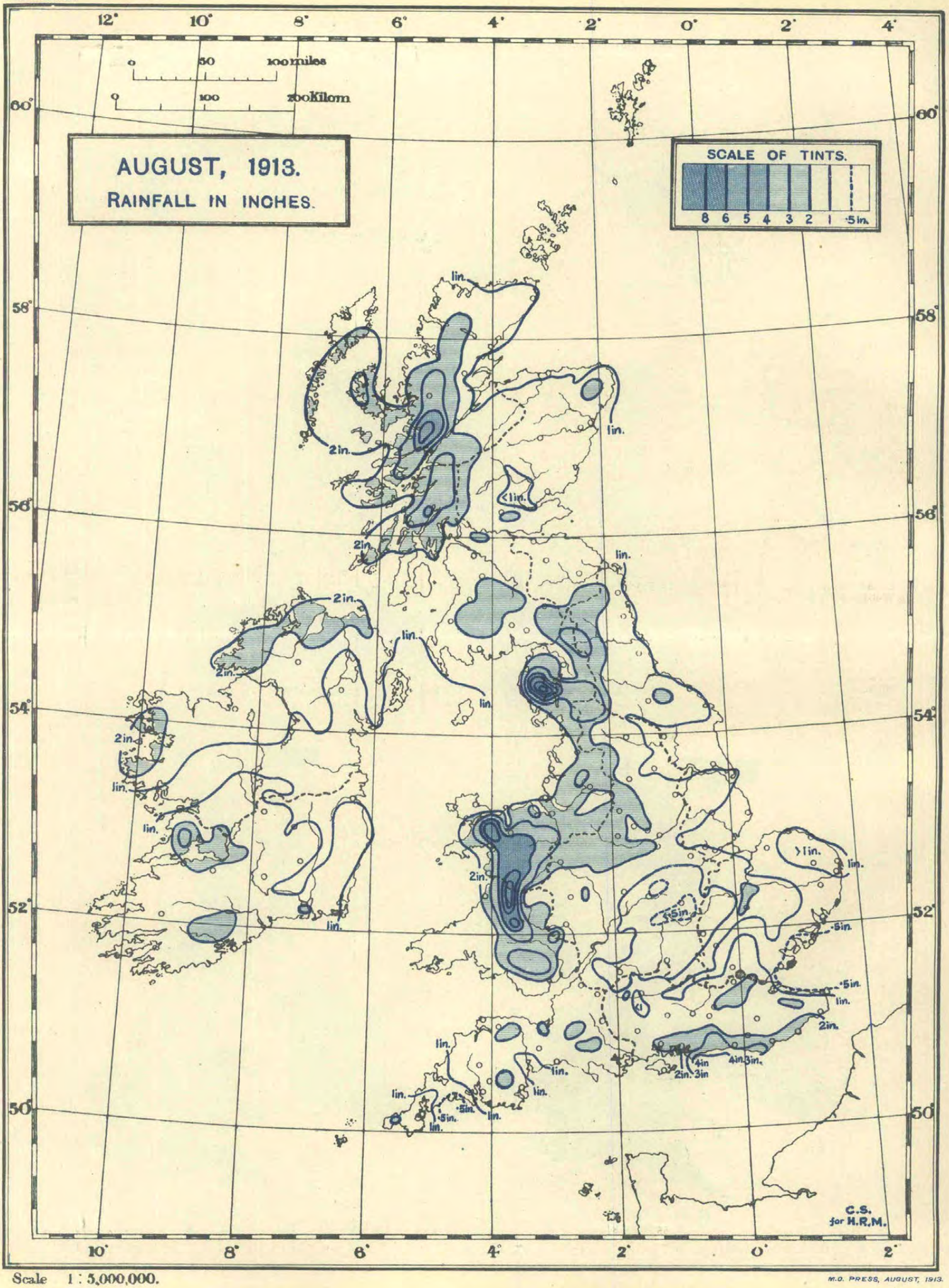


Sea temperatures are shown in large figures thus 57°

4. BRIGHT SUNSHINE. HOURS PER DAY.



M.O. PRESS, AUGUST, 1913.



Scale 1 : 5,000,000.

M.O. PRESS, AUGUST, 1913.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, AUGUST, 1913.

DISTRICTS AND STATIONS,	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	70·0	52·4	61·2	—	80	28th	43	25th	—	?58·4	1·40	—	0·46	31st	13	0	0	1	2	0	4·75	—	33	—
a Golder's Green	279	69·1	52·2	60·7	—	79	21, 28	46	9, 25	—	—	1·24	—	0·38	31st	12	0	0	1	0	—	—	—	—	—
p Hampstead (Redington Rd.)	375	69·1	52·3	60·7	—	80	28th	45	25th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon ...	51	71·2	52·8	62·0	—	82	28th	45	25, 26	—	—	1·77	—	0·70	31st	12	0	0	2	2	0	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	61·8	49·3	55·6	—	66	17, 31	42	6, 7	—	—	1·66	—	0·57	21st	11	0	0	0	0	0	4·84	—	33	—
a Ardnadam	64	—	—	—	—	—	—	—	—	—	—	2·65	—	1·00	21st	11	0	0	0	1	—	—	—	—	—
a Thorntonhall (Lanarkshire)	440	65·1	46·6	55·9	—	73	3, 16	36	18th	—	—	1·21	—	0·48	21st	8	0	0	0	0	0	4·62	—	31	—
a Kilmarnock ... ¶	90	65·5	47·6	56·6	− 1·1	75	29th	38	7th	—	—	1·52	—	0·46	21st	13	0	0	0	1	—	4·73	—	32	—
p Ruthwell ... ... §	67	67·7	48·5	58·1	—	79	30th	38	7th	—	—	1·40	—	0·82	22nd	8	0	0	0	0	—	4·65	—	32	—
7. ENGLAND, N.W.																									
a Scaleby	111	68·1	48·9	58·5	—	79	3, 28	40	18th	—	—	1·98	—	0·78	21st	10	0	0	1	2	—	—	—	—	—
a Seathwaite	422	66·7	50·1	58·4	—	80	3rd	39	19th	—	—	7·19	—	4·32	21st	12	0	0	0	0	—	—	—	—	—
a Carnforth	174	66·0	49·5	57·8	—	77	3, 29	40	19th	—	—	2·72	—	0·92	22nd	12	0	0	0	0	0	5·90	—	40	—
a Lancaster	311	66·6	52·4	59·5	—	78	29th	45	5, 19	60·8	61·0	2·06	—	0·82	22nd	9	0	0	0	0	0	5·33	—	36	—
a Hutton	81	65·8	48·8	57·3	—	76	29th	37	8th	59·2	56·6	3·18	—	1·20	8th	9	0	0	0	0	1	5·71	—	39	—
a Burnley	459	64·9	48·5	56·7	—	75	2, 3	35	5th	57·5	55·1	2·50	—	0·65	23rd	9	—	—	—	—	1	4·55	—	31	—
a Leyland	124	66·4	49·3	57·9	—	76	16, 29	39	5, 8, 19	—	—	2·92	—	1·04	22nd	10	0	0	0	0	2	5·44	—	37	—
a Bolton	341	66·4	51·0	58·7	—	78	3rd	42	5, 8	58·8	56·4	3·31	—	0·93	8th	11	0	0	0	0	0	4·13	—	28	—
a Blundellsands	34	66·0	53·6	59·8	—	76	28th	42	19th	—	—	2·02	—	0·78	22nd	10	0	0	0	0	0	—	—	—	—
a Hoylake ... ... §	30	67·0	51·7	59·4	—	75	28, 29	47	8, 21	—	—	1·33	—	0·71	22nd	10	—	—	—	—	0	6·36	—	44	—
a Rhyl	30	65·5	51·9	58·7	—	75	29, 30	43	20th	—	—	2·51	−0·16	0·65	22nd	12	0	0	0	0	0	7·03	—	48	—
a Colwyn Bay	82	65·7	53·7	59·7	—	77	29th	46	19, 20	—	—	2·57	—	0·80	22nd	7	0	0	0	0	—	6·58	—	45	—
a Llanberis (Pen-y-Gwryd)	913	63·6	49·1	56·4	—	74	29th	39	7th	—	—	6·24	—	1·39	22nd	13	0	0	0	3	—	—	—	—	—
a Macclesfield	500	66·6	50·2	58·4	—	76	3, 29	39	5th	—	—	2·24	—	1·23	22nd	12	0	0	1	1	—	—	—	—	—
a Northwich	117	69·5	50·8	60·2	—	80	28th	39	8th	—	—	1·97	—	0·99	22nd	14	0	0	1	5	—	—	—	—	—
a Hawarden Bridge... ¶	22	66·9	52·4	59·7	− 0·4	75	28th	41	8th	—	—	2·73	−0·32	0·90	22nd	11	—	—	—	—	—	—	—	—	—
a Ruthin	449	66·0	51·5	58·8	—	74	28th	44	19, 20	—	—	2·25	—	0·88	22nd	12	0	0	1	0	—	—	—	—	—
a St. Asaph	479	65·4	51·9	58·7	—	76	28th	45	10, 19	—	—	3·92	—	1·55	8th	14	0	0	0	0	—	—	—	—	—
a Welshpool	255	70·0	49·3	59·7	—	80	3rd	37	8th	—	—	1·79	—	1·14	22nd	14	0	0	0	0	—	—	—	—	—
p Aberdovey ... ... §	22	67·2	55·5	61·4	—	78	3rd	48	7, 8	—	—	2·86	—	1·56	22nd	11	0	0	1	1	—	6·69	—	46	—
8. ENGLAND, S.W.																									
a Aberystwyth ... §	59	65·7	55·1	60·4	—	78	28th	46	7, 8	—	—	2·16	—	1·30	22nd	9	0	0	0	0	—	6·53	—	45	—
a Gwernyfed	374	69·0	47·5	58·3	—	80	3rd	37	6, 8, 20	—	—	1·17	—	0·58	22nd	15	0	0	2	4	—	—	—	—	—
a Haverfordwest	93	66·8	52·3	59·6	—	79	3rd	40	8th	—	—	1·79	—	0·61	22nd	11	0	0	0	2	—	5·95	—	41	—
a Swansea	24	70·6	55·3	63·0	—	77	3, 15	46	8th	65·3	61·1	1·73	—	0·50	10, 22	11	0	0	0	0	0	5·45	—	38	—
a Clifton ... ... ¶	229	70·0	55·0	62·5	+ 0·9	81	3rd	48	5, 9, 20	—	—	1·38	−2·19	0·55	9th	11	—	—	—	—	0	5·56	—	39	—
a Weston-Super-Mare ...	29	69·5	54·6	62·1	—	80	28th	47	5, 9, 20	—	—	0·92	—	0·31	23rd	10	0	0	0	0	0	5·17	—	36	—
a Minehead	104	69·9	54·4	62·2	—	76	18, 30	47	8, 19	—	—	1·38	—	0·38	31st	9	0	0	2	1	0	5·45	—	38	—
a Ilfracombe	24	65·8	56·9	61·4	—	70	1, 26, 28	49	7th	63·6	60·8	1·59	—	0·72	22nd	11	0	0	0	5	0	6·05	—	42	—
a Bude	49	69·4	53·6	61·5	—	78	1st	39	7th	—	—	1·18	—	0·31	31st	10	0	1	0	2	—	5·74	—	40	—
a Arlington... ¶	613	67·3	51·8	59·6	+ 0·7	74	1, 3, 28	41	7, 9	—	—	1·36	−3·60	0·36	22nd	9	0	0	0	0	—	—	—	—	—
a Cullompton ... ¶§	202	71·7	51·2	61·5	+ 1·0	80	3rd	39	8th	64·5	—	1·95	−1·06	0·85	31st	13	0	0	0	1	0	5·26	−0·61	37	− 4
a Rousdon	515	68·2	52·2	60·2	+ 1·2	75	1, 14	44	9th	63·3	62·0	1·30	−1·53	0·64	31st	9	0	0	1	3	0	5·83	—	41	—
a Sidmouth	147	69·8	53·5	61·7	—	77	1st	45	7, 9	—	—	1·13	—	0·60	31st	10	0	0	1	1	0	—	—	—	—
a Exmouth	11	69·5	55·0	62·3	—	77	15th	46	26th	—	—	0·80	—	0·52	31st	8	—	—	—	—	—	5·61	—	40	—
a Killerton	160	71·9	51·3	61·6	—	79	15, 30	41	9, 25	—	—	1·14	—	0·65	31st	8	0	0	4	0	0	—	—	—	—
a Shaftesbury ... ¶	722	68·2	—	—	—	75	3, 28	—	—	61·0	59·1	1·82	−1·13	0·85	31st	10	—	—	—	—	—	—	—	—	—
a Dorchester...	314	69·4	52·6	61·0	—	75	1, 30	44	9, 26	—	—	1·37	—	0·63	31st	8	0	0	1	0	—	5·94	—	41	—
a Weymouth	21	71·2	54·9	63·1	—	79	1st	48	25th	—	—	1·66	—	0·81	31st	8	0	0	1	0	—	6·08	—	43	—
a Torquay	12	69·6	56·7	63·2	—	78	14th	49	9th	—	—	1·53	—	0·80	30th	8	0	0	1	0	0	5·76	−1·01	40	− 7
p Paignton	11	69·2	55·1	62·2	—	78	14th	46	25th	—	—	1·12	—	0·40	31st	12	0	0	1	1	0	5·59	—	39	—
a Salcombe	39	68·5	55·0	61·8	—	76	14, 15	48	7, 9, 25	—	—	1·05	—	0·21	8th	8	0	0	1	1	—	6·02	—	42	—
a Tavistock	374	69·5	52·9	61·2	—	78	1, 3	42	25th	—	—	1·45	—	0·33	31st	15	0	0	4	1	0	—	—	—	—
a Ashburton	583	70·5	54·6	62·6	—	78	14th	48	8th	—	—	1·64	−2·21	0·68	16th	13	0	0	1	0	—	—	—	—	—
a Fowey	51	70·1	53·5	61·8	—	75	15, 17, 26	45	7, 25	—	—	0·30	—	0·10	28th	7	0	0	2	2	—	5·98	—	42	—
a Redruth	397	66·5	54·9	60·7	—	74	1st	47	7th	—	—	1·37	—	0·43	11th	11	0	0	0	6	—	—	—	—	—
a Penzance	54	69·2	57·4	63·3	—	76	1, 26	51	25th	—	—	1·80	—	1·25	11th	11	0	0	0	4	—	5·35	—	37	—
9. IRELAND, N.																									
p Dunfanaghy	54	62·5	51·9	57·2	—	70	15, 20	47	8, 11	—	—	1·57	—	0·35	23rd	13	0	0	0	0	—	—	—	—	—
a Lisburn	207	68·7	48·2	58·5	—	83	2nd	38	8, 28	—	—	1·34	—	0·33	21st	10	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin) ...	67	67·9	50·1	59·0	+ 0·5	78	14th	41	19th	—	—	0·58	−2·87	0·21	10th	9	0	0	0	1	0	—	—	—	—
a Kingstown...	42	66·5	53·9	60·2	—	76	15th	46	20th	—	—	0·70	—	0·26	9th	8	—	—	—	—	—	5·62	—	39	—
p Clongowes Wood Col. ...	245	66·6	48·4	57·5	—	77	14th	37	19th	—	—	0·96	—	0·16	8, 10	13	0	0	1	2	1	6·11	—	42	—
a Mountmellick	239	68·5	48·9	58·7	—	78	2nd	41	26, 28	—	—	0·61	—	0·18	21st	7	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow...	256	65·1	52·8	59·0	—	75	14th	47	2nd	—	—	1·29	—	0·44	9th	5	0	0	0	0	—	—	—	—	—
a Kilkenny ... ... ¶	195	68·3	51·4	59·9	+ 0·6	78	2nd	40	25th	—	—	1·06	−2·62	0·35	10th	10	0	0	1	0	—	—	—	—	—
a Cahir ... ... ¶	199	69·0	51·1	60·1	—	78	2nd	40	25th	—	—	1·16	—	0·31	22nd	9	0	0	0	5	—	—	—	—	—
a Wexford	99	68·3	53·5	60·9	—	80	14th	46	20th	—	—	0·90	—	0·46	22nd	9	0	0	1	2	—	—	—	—	—
a Waterford ... ... ¶	100	69·1	52·2	60·7	+ 1·9	78	3rd	44	25th	—	—	1·65	−2·28	0·53	16th	8	0	0	1	1	—	—	—	—	—
p Waterford Trg. Coll. ...	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Foynes ... ... ¶	108	64·9	52·7	58·8	− 0·3	74	3rd	46	12th	—	—	2·17	−1·90	0·49	29th	12	0	0	1	4	—	—	—	—	—
a Killarney ... ... ¶	174	69·9	53·2	61·6	+ 2·1	79	2nd	46	6th	—	—	1·78	−2·91	0·43	29th	11	—	—	—	—	—	—	—	—	—
a Ballinacurra ... §	24	69·2	52·9	61·1	—	79	14th	42	25th	—	—	1·33	—	0·67	29th	7	0	0	1	1	—	5·42	—	38	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	67·9	55·6	61·8	− 0·1	74	15, 29	49	6, 7	—	—	1·56	−1·15	0·57	26th	8	0	0	1	0	—	7·15	−0·66	50	− 5

DISTRICT VALUES—AUGUST, 1913.

Districts	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	74	33	61·7	48·9	54·9	+0·4	56·8	+0·3	—	—	1·74	−2·55	13	3·70	+0·01	25	0	7·7	7·0	7·2	30·43	18th	29·41	22nd
Eastern.																								
1. SCOTLAND, EAST ...	82	31	65·0	48·0	56·1	+0·3	58·7	+0·4	55·0	−0·2	1·18	−1·99	12	4·62	−0·18	31	− 1	7·1	6·5	7·0	30·42	17th	29·54	22, 23
2. ENGLAND, N.E. ...	82	38	66·3	50·4	58·0	+0·2	59·0	−1·0	56·4	−0·6	1·18	−1·56	10	5·15	−0·03	35	− 1	7·2	—	6·7	30·35	18th	29·70	23rd
3. ENGLAND, EAST ...	82	36	67·7	52·1	59·4	−0·3	61·5	−1·7	59·4	−1·3	1·28	−1·06	10	5·66	−0·29	39	− 2	7·3	5·9	5·7	30·37	26th	29·71	30th
4. MIDLAND COUNTIES	84	32	68·9	50·5	59·1	+0·3	59·3	−1·2	56·6	−0·9	1·42	−1·23	10	4·28	−1·07	30	− 7	6·8	6·7	5·9	30·32	2nd	29·76	30th
5. ENGLAND, S.E. ...	84	36	68·6	52·7	60·2	−0·6	61·5	−1·4	58·9	−1·2	1·50	−0·98	10	5·22	−1·05	37	− 7	6·5	6·4	4·9	30·31	26th	29·71	30th
Western.																								
6. SCOTLAND, WEST ...	80	36	65·2	49·1	56·9	+0·4	60·5	—	57·9	+0·7	1·74	−2·86	11	5·63	+0·67	38	+ 4	6·6	7·4	5·7	30·40	18th	29·64	23rd
7. ENGLAND, N.W. ...	80	35	66·0	51·7	58·4	+0·3	60·1	−0·2	57·5	−0·2	2·09	−1·58	11	6·12	+1·10	42	+ 8	6·2	5·2	5·6	30·31	26th	29·76	29th
8. ENGLAND, S.W. ...	81	35	68·2	53·6	60·4	+1·3	62·9	−0·2	59·9	+0·4	1·58	−1·80	10	5·62	−0·33	39	− 2	6·3	5·9	5·4	30·29	12th	29·73	30th
9. IRELAND, NORTH ...	83	38	64·3	50·7	57·1	+0·3	60·7	+0·1	57·3	−0·2	1·32	−2·69	11	5·07	+0·84	35	+ 6	6·8	5·6	6·0	30·36	18th	29·58	23rd
10. IRELAND, SOUTH ...	80	37	67·3	52·6	59·6	+1·4	61·8	+0·8	58·8	+0·2	1·50	−2·59	11	5·44	+0·51	38	+ 4	6·4	6·6	6·0	30·35	2nd	29·72	23rd
11. ENGLISH CHANNEL ...	76	46	67·7	56·2	61·7	+0·2	63·1	−1·4	60·9	−1·1	1·38	−1·30	10	6·42	−1·11	45	− 8	6·6	6·0	5·6	30·33	12th	29·72	29th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
	hr.		%	
5. ENGLAND, S.E.				
Broadstairs ...	5·85	—	41	—
Littlestone§ ...	—	—	—	—
Hove	5·65	—	40	—
Westbourne ...	5·90	—	41	—
LONDON.				
Bunhill Row ...	4·23	−1·06	29	− 8
Plumstead ...	4·06	—	28	—
8. ENGLAND, S.W.				
Tenby	6·29	−0·03	44	0
Port Talbot ...	5·05	—	35	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	0·62	—	0·30	9th	11
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	0·99	—	0·37	22nd	10
Forest of Dean (900 ft.)	1·10	—	0·30	22nd	7

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ≸ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, September 23, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. IX. SEPTEMBER, 1913. [*Price 6d.*

LITTLE WIND, HEAVY LOCAL RAINS.

Pressure, Winds and Weather.—During September the distribution of atmospheric pressure over the United Kingdom and the surrounding regions underwent considerable but not violent changes. The type which was in the ascendant through the closing week of August was maintained through the first five days of September. An anticyclone embraced the northern regions, from Iceland across to Scandinavia, including the greater part of this country, while a number of small and very shallow depressions skirted the southern border of the system, moving slowly on most irregular easterly paths, and producing a very changeable state of the weather over our southern districts. A marked alteration in the situation was developed on the 6th, when the depressions dispersed, and the northern high pressure expanded southward and south-westward across the British Isles, being joined by the anticyclonic system which had occupied the middle region of the Atlantic. It was during this interval that the maximum pressure for the month was attained, the barometer rising above 30·5 in. at the northern stations on the 6th and 7th, to 30·56 in. at Wick on the former date, and at Glasgow on the latter. On the 10th a well marked depression was moving on a south-easterly course from Greenland towards Iceland, and maintaining its advance it brought the whole of these Islands within its influence in the course of the following day, the anticyclone withdrawing to some distance out on the ocean. This started the longest spell of unsettled conditions during the month, the country being under a low pressure distribution until the 20th. From the 13th to the 15th the central space of the system lay over our western districts, the barometer standing below 29·5 in. over a considerable area, and on the 14th it descended to 29·07 in. at Birr Castle, the lowest record for the month. From the 18th to the 20th the low pressure was much more shallow, the barometer only a little below 30 in. On the 21st an anticyclone of moderate intensity moved up from the eastern side of the Atlantic, crossed the British Isles, and joined another high pressure lying over Northern Europe. From the 22nd until the end of the month and the opening days of October the pressure distribution was variable, the country occupying a position between depressions situated on the eastern half of the ocean, between Madeira and Iceland, and moving in to the Bay of Biscay and the Spanish Peninsula, and anticyclonic areas which at various times were situated to the eastward, northward, and north-westward.

Combining these very varied conditions the mean pressure distribution for the whole month is found to be the reverse of what it was for July and August. The results disclose an area of relatively low barometric values, about 29·9 in., outside our south-western coasts, and of relatively high ones, nearly 30·1 in., over an extensive region of Northern Europe At the home stations the values ranged from 29·91 in. at Scilly to 30·04 in. at Lerwick, so that the distribution was of a general South-Easterly type, as against the normal Westerly to South-Westerly. Over the northern half of the kingdom the means were above the normal, by as much as 0·21 in. in Shetland, and over the southern districts they were below, by 0·07 in. at Portland Bill, and 0·08 in. at Scilly. Though the prevailing type was South-Easterly, the winds experienced, owing to the many shiftings of the various pressure systems, were from all quarters of the compass.

The month may be regarded as singularly free from stormy weather, most of the depressions of the period being very shallow, and not favourable to a decided increase in the velocity of the wind. At the telegraphic reporting stations, force 6 (a strong breeze) was not exceeded during the first ten days. With the approach of the disturbance from the Greenland region, a more breezy spell set in on the 11th, when a high wind (force 7) was felt round the north of Scotland. When the centre of the system took up its position over the country a complete cyclonic wind circulation was set up, but the gale produced affected only very limited areas, and nowhere did it present any violent features. Force 8, from South-West, was attained at Malin Head and Stornoway on the 12th; from South at Holyhead and Portland Bill on the 14th; and at Roche's Point next day. The only strong gale (force 9) was from the North-Eastward, at Lerwick and Malin Head during the evening or night of the 14th.

There was even less wind during the second half of the month. From the 22nd to the 25th, with a moderately deep depression out on the Atlantic and an anticyclone about the Scandinavian region, the force of a strong Southerly wind was exceeded at some of the more exposed situations on the western and northern coasts, force 8 at Malin Head on the 22nd, and at Wick on the 23rd, and force 9 at Lerwick and Wick on the 25th.

These estimates, indicating the general absence of boisterous conditions, are confirmed by the records of the self-registering anemometers in many parts of the kingdom. They disclose very few instances of a mean hourly wind velocity above 38 miles, the limit of a high wind, while even in gusts registrations above 40 miles per hour were uncommonly rare, the highest being 46 miles at Pendennis Castle on the 4th, and at Holyhead on the 20th, and 48 miles at Holyhead, and 51 miles at Scilly on the 14th.

Though there was very little wind the weather itself was of an unusually erratic character; the rainstorms experienced were distributed in the most haphazard manner, many of them affecting small areas. The heavy downpour which broke over South-Eastern England near the close of August expanded so as to embrace the greater part of Southern England on September 1st, accompanied by thunderstorms in several localities, the precipitation ranging up to more than an inch at Aldershot and Wisley, 1·3 in. at Ridlington (Rutland). The southern half of Britain had another very wet day on the 4th, with sporadic thunderstorms, which were severe in places. The largest rainfalls were 1·7 in. at Cardiff, Princetown and Worthing, and 2·1 in. at Abersychan. At Princetown the thunderstorm was very violent, eight bullocks being killed by lightning in one spot, and nearly the whole of the 1¾ in. of rain which was measured falling within the hour from 6.30 a.m. to 7.30 a.m. Next day there were further heavy falls over the south-western counties, up to 1·4 in. at Princetown and Ashburton, and 1·5 in. at Sheepstor. At Newquay about ½ in. fell in 20 minutes, in a severe thunderstorm. From the 6th to the 10th there was little or no rain, but on the 11th heavy falls were working down from the Greenland-Iceland region. In Western Scotland the amounts on the 11th ranged up to 1·8 in. at Bendamph. On the 12th the largest quantities were in Wales, up to 2 in. at Haverfordwest, 2·6 in. at Bethesda, and 3·9 in. at Llanberis (Penygwryd). On the following day heavy falls were scattered over widely separated parts of the kingdom, up to 1·7 in. at Armagh and Dwyran, 2 in. at Haverfordwest, and 2·1 in. at Lisburn. Various districts had thunderstorms on the 14th, but the heaviest rains were in Ireland, 1·6 in. at Enniscoe, 1·7 in. at Mount Callan, and 2·2 in. at Ennistymon. Thunderstorms were more numerous on the 15th, but heavy rainfalls were fewer, 1·3 in. at Ballinacurra, 1·4 in. at Dunrobin, and 1·8 in. at Roche's Point A waterspout was observed crossing the mouth of the Towy river, Carmarthen, and Oundle was visited by an extraordinary hailstorm, yielding 0 52 in. of water in 20 minutes. One mass of the hail had not melted four days later. The 16th witnessed further sporadic thunder and rainstorms, Newcastle-on-Tyne being swept by a torrential fall of 2·65 in. in 1½ hour. Next day the Midlands had heavy downpours, up to 1·7 in. at Sheffield, and a "record" amount of 2·1 in. at Bawtry. Ireland had the heaviest on the 19th, 1¾ in. round Dublin; on the 22nd, 1·4 in. at Valencia; and on the 24th, 2 in. at Broadford (Clare). On the 26th the north of England received the heavy falls, up to 1·6 in. at Lancaster, and 1·8 in. at Kirkby Lonsdale. Over an inch fell on the west coast of Ireland on the 27th.

Temperature was in excess of the normal at nearly all stations, by more than 2° in many instances. The mildest period was round the 27th, when many places had afternoon maxima of 75° and upwards, 79° in several cases, and 82° at Whitby. The nights at this time were very mild also, with minima above 60° in various districts, 63° at South Kensington, 65° at Manchester. Frost in the shade occurred in some of the more open situations, mostly on the morning of the 7th, when Braemar and Garforth touched 29°, West Linton 28°, and Kingussie 27°.

The temperature of the sea water round our coasts was decreasing, and in some places it was from 2° to 4° colder than in August. As a rule, however, it was 1° or 2° warmer than the air on shore.

During the second half of the month fogs were reported frequently on the western and eastern coasts, locally thick on several days, but along the south coast they were seldom recorded.

Rainfall.—As noted above the distribution of precipitation was very irregular. This fact is brought out in the results for the whole month. Newcastle-on-Tyne had 324 per cent. of the normal, Shields and Haverfordwest 205, Seaforde (Down) 200, Glasnevin 197, and a number of other stations more than 150 per cent., against less than 50 per cent. at several, 40 at Buxton and Seathwaite, 38 at Southend, 37 at Fort William, and 23 per cent. at Jersey. Few totals exceeded 5 in., but some stations in Snowdonia received over 10 in. The aggregates below ¾ in. were 0·7 in. at Brandon and Jersey, and ½ in. at Clacton. The frequency of precipitation was less than usual, 22 days at Roche's Point and Valencia, and 21 at Baltasound, Blacksod, Foynes, Princetown and Wilton, 10 or less at many stations, six at Ruthwell

Bright Sunshine.—With few exceptions the duration of insolation was below the normal. Jersey had 110 per cent., and Fort Augustus, Newton Rigg, York and Westminster 109, but several districts had less than 75 per cent., 61 at Cullompton, 59 at Aberdeen and Woolacombe, and 57 per cent. at Deerness.

(32171—24.) Wt. 196—786. 1475. 10/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.		Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.								EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.											
							Mean of				Absolute Maximum and Minimum.						Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
				Station Level.	Diff. from Av.	Mean Sea Level.	A. Max.	B. Min.	Mean of A and B.	Difference from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
			Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																												
Islands	*a* Castlebay	7, 1, 9	48	9·906	+·090	9·970	58·1	50·6	54·4	+2·0	65	28th	43	13th	—	—	53·3	56·8	54·4	1·8	3·1	2·2	·357	·372	·362	88	80	85
	p Deerness ... §	9, –, 9	163	9·846	—	0·018	55·5	49·7	52·6	+1·1	59	4, 26, 27	44	13th	—	—	52·7	—	51·5	2·3	—	1·6	·341	—	·343	85	—	89
	a Lerwick ... ¶§	7, 1, 9	59	9·978	+·206	0·042	54·6	48·9	51·8	+1·2	59	26th	42	5th	—	—	51·4	53·7	51·7	1·9	3·5	2·2	·331	·319	·327	88	77	86
	a Stornoway ... ¶§	7, 1, 9	52	9·947	+·146	9·996	58·4	46·4	52·4	+0·9	64	4, 5, 27	37	13th	—	—	50·2	57·0	52·2	1·3	2·8	1·7	·330	·383	·345	91	82	89
Mainland	*a* Wick ... ¶	7, 1, 9	94	9·917	+·156	0·023	55·3	47·5	51·4	−0·5	59	10th	37	13, 19	—	—	51·3	54·4	52·3	0·6	1·6	0·8	·362	·378	·371	96	90	95
	p Strathpeffer ¶§	9, –, 9	210	9·772	—	9·994	60·8	45·7	53·3	+1·5	68	7th	37	7th	—	—	53·3	—	51·6	2·4	—	2·1	·341	—	·328	83	—	86
	a Glencarron § ¶	9, –, 9	504	—	—	—	58·8	45·3	52·1	+0·6	68	24, 27	?37	6, 7	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	p Ft. Augustus § ¶§	9, –, 9	73	9·919	—	9·993	59·8	46·9	53·4	+0·1	69	4th	33	7th	—	—	52·8	—	52·9	0·9	—	1·1	·374	—	·370	93	—	93
	p Ft. William § ¶	9, –, 9	38	9·953	—	9·989	61·9	46·4	54·2	+0·5	71	24th	36	7th	—	—	53·7	—	52·6	2·9	—	2·5	·340	—	·333	82	—	84
	p Kingussie ... §	9, –, 9	828	9·113	—	9·999	60·4	42·2	51·3	—	72	28th	27	7th	—	—	51·0	—	50·3	2·8	—	2·7	·304	—	·297	81	—	82
	p Dunrobin ... §	9, –, 9	16	0·003	—	0·015	57·0	48·4	52·7	+0·1	64	11th	39	13th	55·1	—	54·2	—	52·3	2·3	—	2·0	·355	—	·339	84	—	86
1. SCOTLAND, E.																												
	a Nairn ... ¶§	7, 1, 6	82	9·903	+·119	9·997	59·5	44·1	51·8	−1·1	70	25th	33	7th	—	—	49·6	57·7	55·4	1·4	3·8	2·8	·319	·368	·361	90	77	83
	p Gordon Castle § ¶	9, –, 9	107	9·909	—	0·022	60·6	44·7	52·7	−0·6	71	27th	34	7th	—	—	55·2	—	50·5	2·9	—	1·3	·355	—	·333	82	—	90
	Aberdeen ... ¶§	9, 3, 9	90	9·935	+·124	0·033	57·1	49·4	53·3	+0·3	65	·11th	42	9th	—	53·2	54·0	55·8	53·0	2·7	3·4	2·0	·346	·353	·350	82	79	86
				9·932	+·120	0·029			53·4	+1·0																		
	a Balmoral ... § ¶	9, 3, –	927	0·006	—	0·013	59·3	43·0	51·2	—	68	11th	30	7th	—	—	46·1	57·7	—	1·8	—	—	·271	—	—	87	—	—
	p Braemar ... §	9, –, 9	1114	8·832	—	0·017	58·4	42·7	50·6	+0·8	69	7th	29	7th	—	—	50·1	—	49·1	2·7	—	1·9	·294	—	·302	81	—	86
	p Dundee ... §	9, –, 9	164	9·867	—	0·039	59·9	48·2	54·1	+0·5	67	7th	39	17th	—	—	53·9	—	52·2	2·0	—	1·1	·359	—	·361	87	—	93
	p Crieff ... § ¶	9, –, 9	436	9·545	—	0·010	60·3	46·8	53·6	+0·2	68	28th	40	2, 3	—	—	53·6	—	52·2	2·8	—	2·2	·335	—	·332	81	—	85
	a Leith ... ¶	7, –, 6	37	9·949	+·078	9·993	60·7	49·8	55·3	+0·4	74	24th	40	17th	—	—	53·1	—	57·2	2·2	—	3·5	·344	—	·367	84	—	78
	p West Linton S ¶	9, 3, 9	805	9·140	—	0·008	59·1	44·2	51·7	−0·8	70	28th	28	7th	—	—	52·0	56·6	49·4	2·0	4·1	1·2	·335	·345	·322	86	75	91
	p Marchmont § ¶§	9, –, 9	500	9·482	—	0·015	60·0	47·1	53·6	+1·1	70	28th	40	7th	54·4	—	54·2	—	52·4	2·4	—	1·5	·353	—	·353	84	—	90
2. ENGLAND, N.E.																												
	p Whitby	9, –, 9	158	9·824	—	9·986	67·2	50·5	58·9	+3·9	82	27th	36	8th	—	—	59·7	—	54·6	3·0	—	1·4	·420	—	·390	83	—	91
	p Cockle Park §	9, –, 9	331	9·665	—	0·017	60·1	48·5	54·3	—	67	24th	39	8th	54·3	54·1	54·6	—	53·1	2·0	—	1·3	·374	—	·370	88	—	91
North	*a* Shields ... ¶	7, –, 6	117	9·882	+·070	0·007	60·9	51·7	56·3	+2·0	70	24th	42	8th	—	—	54·2	—	57·1	2·0	—	2·7	·364	—	·387	86	—	82
	p Durham ... ¶§	9, –, 9	352	9·635	—	0·007	62·5	48·9	55·7	+1·6	71	11, 27	35	8th	—	—	55·8	—	53·6	2·0	—	1·4	·389	—	·377	88	—	91
	p Rounton ... ¶	9, –, 9	245	9·725	—	0·981	63·3	48·3	55·8	+2·2	75	27th	37	10th	56·5	—	56·5	—	54·0	2·4	—	1·8	·387	—	·366	85	—	87
	p Scarborough ¶§	9, –, 9	127	9·869	—	9·990	63·1	52·7	57·9	+2·7	74	11th	45	8th	—	*58·5	57·5	—	56·6	2·2	—	1·9	·408	—	·403	86	—	87
	p York ... ¶§	9, –, 9	53	9·957	—	0·006	66·4	50·2	58·3	+2·8	79	27th	36	8th	57·6	56·7	57·8	—	56·1	3·2	—	2·8	·386	—	·372	81	—	82
	a Spurn Head ¶	7, 1, 6	28	9·948	+·019	9·982	63·2	51·9	57·6	+0·8	69	11, 12	48	9, 10, 16	—	—	56·8	62·2	59·1	0·6	3·1	1·6	·443	·456	·451	95	82	90
South	*a* Lincoln ...	9, –, –	42	9·963	—	9·995	66·0	50·6	58·3	+2·0	77	27th	38	16th	57·7	57·4	57·9	—	—	2·5	—	—	·408	—	—	85	—	—
	a Skegness ... §	9, –, –	16	9·983	—	9·988	63·7	51·8	57·8	—	71	11th	40	16th	—	—	59·5	—	—	2·0	—	—	·445	—	—	88	—	—
	p Hull	9, –, 9	12	0·003	—	0·008	65·3	51·1	58·2	+2·9	76	27th	39	8th	56·2	55·8	58·9	—	56·4	2·7	—	2·1	·414	—	·393	83	—	87
3. ENGLAND, E.																												
	p Lowestoft	9, 3, 9	77	9·912	—	9·994	63·0	54·6	58·8	+1·7	68	11th	46	9th	59·8	59·1	61·8	61·6	58·7	3·2	3·3	1·7	·450	·441	·442	82	81	89
	p Cromer ... ¶§	9, –, 9	139	9·845	—	9·986	65·0	53·6	59·3	—	76	26th	44	16th	—	—	59·2	—	56·6	2·1	—	1·1	·436	—	·426	88	—	93
North	*p* Lit. Massingham ¶§	9, 3, 9	280	—	—	—	65·2	50·5	57·9	+1·7	75	26, 27	41	16th	—	—	58·4	62·9	54·3	2·1	4·7	1·1	·424	·421	·390	87	73	92
	a Yarmouth ... ¶	7, 1, 9	27	9·962	+·015	9·987	63·8	54·4	59·1	+2·2	67	12, 26	46	9th	60·2	59·3	57·6	61·9	59·0	1·5	2·5	2·3	·429	·470	·427	90	85	86
	p Geldeston ... ¶§	9, –, 9	47	9·955	—	9·997	65·3	50·9	58·1	+1·3	73	26th	38	16th	—	—	59·6	—	55·4	2·2	—	1·2	·440	—	·404	86	—	92
	p Cambridge... ¶§	9, –, 9	43	9·932	—	9·971	66·5	50·4	58·5	+1·4	76	26th	37	16th	58·7	58·6	58·8	—	55·2	2·4	—	1·4	·423	—	·399	85	—	91
	a Clacton ... ¶§	7, 1, 9	54	9·916	−·022	9·973	63·9	54·3	59·1	+1·2	68	11th	47	9, 10	59·6	59·4	57·1	62·7	59·2	1·5	3·5	4·0	·421	·453	·383	90	79	76
South	*p* Woburn	9, –, 9	294	9·689	—	9·999	65·7	48·6	57·2	—	75	27th	35	16th	—	—	57·5	—	54·6	2·6	—	1·4	·397	—	·390	84	—	91
	p Bennington ...	9, 3, 9	411	—	—	—	65·7	50·3	58·0	+1·5	74	26, 27	42	16, 19	58·3	58·5	58·2	62·7	54·7	2·4	5·4	1·3	·413	·406	·398	85	72	91
	p Berkhamsted ...	9, –, 9	397	9·566	—	9·986	66·1	48·7	57·4	+1·1	76	27th	38	16th	58·8	—	57·2	—	53·9	2·3	—	1·1	·401	—	·387	86	—	92
4. MIDLAND COUNTIES.																												
	a Garforth	9, –, 9	198	—	—	—	64·2	47·4	55·8	—	71	12,24,27	29	8th	54·9	53·9	57·1	—	55·5	2·6	—	2·4	·394	—	·376	84	—	85
	p Huddersfield ...	9, 3, 9	411	9·544	—	9·984	63·1	49·9	56·5	—	78	27th	38	15th	56·5	55·4	55·3	62·2	54·7	2·2	5·7	1·5	·379	·387	·389	86	70	90
	p Sheffield ... §	9, –, 9	450	9·516	—	9·991	63·3	50·9	57·1	+1·0	77	27th	41	15th	55·8	54·8	56·0	—	55·9	2·0	—	1·9	·394	—	·395	88	—	88
	a Worksop	9, –, 9	67	9·933	+·014	9·997	65·8	48·7	57·3	+2·1	79	27th	35	8, 15	56·7	55·8	57·3	63·7	—	2·1	5·5	—	·407	·412	—	86	69	—
	p Buxton	9, 3, 9	997	8·922	—	9·987	60·7	47·0	53·9	+1·3	73	27th	34	8th	56·3	54·7	55·1	59·0	53·0	2·3	3·7	2·1	·369	·388	·345	85	78	85
East	*p* Belvoir Castle ...	9, –, 9	276	9·708	—	9·998	64·3	49·9	57·1	+1·3	76	27th	36	16th	57·7	55·5	56·6	—	54·9	2·0	—	1·7	·400	—	·382	87	—	89
	a Coventry	9, –, –	309	9·661	—	9·982	65·8	50·8	58·3	+2·1	78	27th	39	16th	57·8	56·8	57·9	—	—	2·9	—	—	·394	—	—	82	—	—
	a Thrapston	9, 3, –	251	—	—	—	65·5	49·7	57·6	—	77	27th	35	16th	—	—	57·7	63·6	—	2·5	6·1	—	·403	·394	—	84	68	—
	a Nottingham ¶§	7, 1, 9	85	9·895	−·004	9·986	65·2	48·9	57·1	+1·2	78	27th	38	16th	57·3	57·5	52·6	63·0	55·6	0·5	4·6	1·3	·383	·426	·405	97	74	91
	p Birmingham ¶§	9, –, 9	542	9·408	—	9·984	63·6	51·0	57·3	+1·8	77	27th	42	16th	54·5	53·4	54·0	—	56·3	2·1	—	2·8	·869	—	·378	86	—	83
	a Oxford ... ¶§	8, –, 8	212	—	—	—	65·5	51·4	58·5	+1·9	77	27th	40	16th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·748	−·031	—			57·7											3·1			·387			81		
West	*a* Bath ... ¶§	7, –, 6	84	9·873	−·037	9·969	66·6	51·0	58·8	+2·3	78	27th	43	10, 17	60·3	59·9	54·5	—	61·1	1·4	—	4·0	·384	—	·412	91	—	77
	p Shrewsbury ¶	9, –, 9	212	9·753	—	9·973	64·9	48·5	56·7	+0·4	78	27th	35	8th	—	—	56·0	—	54·6	2·1	—	1·2	·391	—	·397	87	—	92
	p Wistanstow ...	9, –, 9	484	9·452	—	9·966	63·6	48·5	56·1	—	76	27th	34	16th	—	—	56·2	—	53·3	1·4	—	0·4	·410	—	·396	91	—	97
	p Bromyard ...	9, –, 9	400	9·540	—	9·962	64·1	49·1	56·6	—	76	27th	37	10, 16	57·8	57·3	57·5	—	54·3	2·5	—	1·2	·404	—	·391	85	—	92
	p Cheltenham ...	9, –, 9	206	9·762	—	9·974	65·3	51·7	58·5	+2·9	77	27, 28	43	10th	—	—	58·1	—	56·9	2·4	—	1·4	·412	—	·421	84	—	92
5. ENGLAND, S.E.																												
	p Reading	9, –, 9	264	9·702	—	9·978	65·7	49·4	57·6	—	76	27th	41	15, 18	—	—	57·7	—	55·5	1·4	—	1·1	·434	—	·409	91	—	93
	p Salisbury(Wilton)¶	9, –, 9	186	—	—	—	66·0	49·5	57·8	+1·3	74	27th	40	15, 17	59·9	—	58·1	—	54·8	1·9	—	1·1	·426	—	·399	87	—	93
	a Grayshott	9, 2, –	659	9·270	—	9·972	64·2	50·6	57·4	—	73	26, 27	43	10th	57·2	—	56·5	63·0	—	1·8	4·9	—	·404	·417	—	88	73	—
	a Midhurst	9, 2, –	453	9·445	—	9·970	64·2	51·4	57·8	—	73	26th	42	17th	—	—	57·4	63·0	—	1·8	4·2	—	·418	·438	—	89	77	—
	a Brighton	9, –, –	48	—	—	—	66·4	54·0	60·2	+1·6	72	29, 30	46	18, 19	—	63·0	—	—	—	—	—	—	—	—	—	—	—	—
	a Portsmouth ...	9, –, –	18	9·962	—	9·973	66·2	54·2	60·2	+1·7	71	30th	47	17th	60·1	60·0	60·3	—	—	2·5	—	—	·443	—	—	85	—	—
	p Eastbourne §	9, –, 9	36	9·941	—	9·971	65·0	54·0	59·5	+0·9	69	8, 9	46	17th	60·7	60·1	60·8	—	58·4	2·8	—	1·5	·445	—	·445	83	—	90
	a Dover	7, –, 6	234	9·705	−·163	9·963	64·3	53·4	58·9	—	72	26th	48	15, 19	58·6	56·8	57·0	—	59·2	1·3	—	2·0	·425	—	·439	91	—	88
	a Dungeness... ¶	7, 1, 6	21	9·942	−·023	9·968	64·6	53·9	59·3	+0·8	68	26th	45	22nd	—	—	57·5	64·0	61·0	1·5	3·8	2·4	·427	·467	·458	90	78	86
	p Hastings ... ¶	9, –, 9	174	9·792	—	9·970	64·9	54·2	59·6	+1·4	70	3, 26	48	10, 21	60·3	59·8	59·9	—	57·4	2·9	—	2·0	·424	—	·412	83	—	87
	p Southampton ¶§	9, –, 9	84	9·881	—	9·962	66·0	53·3	59·7	+1·4	72	27th	46	15th	—	—	58·4	—	57·7	2·6	—	2·1	·418	—	·418	85	—	87
	a Ventnor ... ¶§	9, 3, –	80	9·856	—	9·932	64·9	55·7	60·3	+0·9	69	26th	49	10, 17	—	—	60·3	63·4	—	2·8	4·1	—	·434	·447	—	83	77	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of SEPTEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 90 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.							
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
4·12	—	33	—	7·2	6·8	5·7	1·95	—	0·55	14th	15	**12**	0	—	0	0	1	11	1	—	0	24	10	7	13	19	14	5	6	8	8	Castlebay.
2·08	−1·55	16	−13	8·7	—	8·2	1·98	−1·28	0·53	13th	17	10	0	0	0	0	0	**21**	**5**	—	0	36	5	8	17	15	18	11	5	4	7	Deerness.
—	—	—	—	7·6	7·3	8·1	2·09	—	0·49	14, 25	18	10	0	—	0	1	0	*10*	2	—	**5**	31	2	21	18	10	10	12	6	7	4	Lerwick.
3·56	−0·24	28	− 2	7·4	7·0	6·1	2·46	−1·62	0·41	25th	16	9	0	—	0	0	3	*10*	0	—	1	38	5	4	26	10	17	11	12	4	1	Stornoway.
—	—	—	—	8·0	7·6	6·6	2·92	+0·33	0·81	15th	15	**12**	0	—	0	0	0	11	2	—	2	31	6	8	17	12	18	14	4	8	3	Wick.
2·57	−1·30	20	−11	7·8	—	5·6	1·67	−0·88	0·54	15th	15	8	0	0	0	0	1	*10*	0	—	0	17	49	3	6	12	4	2	6	5	3	Strathpeffer.
—	—	—	—	—	—	—	3·35	−5·09	1·48	11th	16	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Glencarron.
2·97	+0·24	24	+ 2	8·1	—	6·6	1·98	−1·90	0·54	16th	12	*6*	0	0	0	0	3	16	1	—	0	39	2	3	39	7	5	10	15	8	1	F. Augustus.
—	—	—	—	7·5	—	6·6	2·69	−4·64	1·08	11th	13	10	0	0	0	1	**5**	16	1	—	1	15	39	3	17	6	4	8	13	0	0	Ft. William.
—	—	—	—	8·1	—	5·9	1·83	—	0·40	13th	13	11	0	0	0	0	3	15	1	—	0	18	14	3	16	11	6	16	11	12	1	Kingussie.
—	—	—	—	6·8	—	7·8	2·88	+0·27	1·40	15th	8	7	0	0	0	0	3	16	0	—	0	6	20	1	0	50	0	1	6	10	2	Dunrobin.
2·83	—	22	—	7·3	6·9	7·0	2·90	+0·53	0·81	13th	15	12	0	—	0	0	0	7	1	—	0	7	33	4	16	13	6	5	3	8	2	Nairn.
3·01	—	24	—	8·2	—	7·0	3·46	+0·88	1·21	15th	12	*8*	0	0	0	0	2	14	0	—	0	3	0	0	32	0	28	9	16	0	5	Gordon C.
2·41	−1·69	19	−14	8·0	7·0	7·5	2·10	−0·61	0·83	13th	15	*8*	0	0	0	0	2	17	2	—	0	12	15	8	10	14	14	15	7	2	5	Aberdeen.
—	—	—	—	8·3	—	—	3·06	—	0·82	16th	16	**13**	0	0	0	1	2	19	1	1	0	12	0	12	9	15	9	9	3	18	15	Balmoral.
—	—	—	—	6·7	—	—	2·22	−0·86	0·43	16th	13	10	0	0	0	1	2	*6*	0	6	0	18	6	0	9	30	0	15	21	6	3	Braemar.
—	—	—	—	8·5	—	9·0	2·21	−0·23	0·52	13th	11	10	0	0	0	0	0	20	1	—	1	14	0	3	29	30	4	4	6	12	2	Dundee.
—	—	—	—	9·0	—	7·4	3·15	−0·13	0·94	23rd	14	11	0	0	0	1	1	20	0	—	0	20	0	0	2	57	2	6	3	19	1	Crieff.
—	—	—	—	8·6	—	6·9	2·37	+0·32	0·87	13th	12	8	0	—	0	0	0	18	2	—	0	11	5	2	22	19	9	5	12	16	0	Leith.
2·66	—	21	—	8·3	7·1	6·6	2·22	—	0·68	13th	16	8	0	0	0	0	2	14	**7**	6	0	0	25	4	25	7	8	6	11	4	0	West Linton.
2·97	−0·93	24	− 7	8·5	—	8·2	1·82	−1·14	0·42	26th	12	9	0	0	0	0	1	**22**	0	0	0	8	0	14	10	40	2	8	0	16	0	Marchmont.
4·19	—	33	—	7·0	—	6·9	1·54	−0·54	0·44	19th	14	7	0	0	0	0	1	12	0	—	0	12	34	5	10	8	12	6	10	0	5	Whitby.
3·47	—	28	—	7·7	—	7·1	2·72	+0·31	0·63	26th	18	11	0	0	0	0	1	12	2	0	0	11	3	9	21	12	13	2	5	15	10	Cockle Park.
—	—	—	—	8·7	—	8·3	4·17	+2·14	1·28	26th	16	8	0	0	0	1	0	**23**	3	—	0	6	4	17	21	12	9	6	7	9	5	Shields.
3·30	−0·63	26	− 5	8·7	—	7·2	2·80	+0·65	0·88	26th	17	**13**	0	0	0	2	1	17	**5**	0	0	11	39	10	13	2	5	12	2	4	3	Durham.
—	—	—	—	7·3	—	5·8	2·59	+0·20	0·86	19th	15	10	0	0	0	1	2	11	**5**	0	0	12	12	9	22	3	9	16	12	2	5	Rounton.
4·45	—	36	—	7·7	—	7·8	0·98	−1·34	0·21	1st	12	9	0	0	0	0	0	13	**5**	—	0	38	0	3	33	2	18	0	27	0	7	Scarborough
4·35	+0·35	35	+ 3	6·6	—	6·6	1·27	−0·94	0·65	17th	11	7	0	0	0	0	1	11	2	—	0	0	0	21	15	8	13	24	2	3	4	York.
4·82	—	38	—	7·0	6·2	6·4	1·38	−0·41	0·89	1st	13	*5*	0	—	0	0	1	*3*	**5**	—	0	58	1	5	19	18	20	14	5	4	4	Spurn Head.
—	—	—	—	5·4	—	4·7	2·10	+0·09	1·24	17th	12	6	0	0	0	1	**8**	9	0	—	0	17	3	2	10	11	21	10	15	5	13	Lincoln.
5·65	—	45	—	6·8	—	—	1·86	—	0·85	16th	12	6	0	0	0	2	1	10	2	—	0	54	0	9	21	12	12	18	6	3	9	Skegness.
3·65	—	29	—	6·8	—	5·5	1·05	−1·15	0·38	1st	11	9	0	0	0	1	3	8	0	0	0	9	12	9	16	9	11	18	12	0	3	Hull.
5·51	—	44	—	5·3	4·3	4·1	1·78	−0·51	0·55	14th	8	6	0	0	0	2	**8**	*5*	2	0	0	38	1	6	16	16	24	11	7	6	3	Lowestoft.
5·06	—	40	—	7·2	—	5·9	1·12	—	0·41	14th	15	6	0	0	0	1	*1*	**11**	1	—	0	36	0	12	12	12	31	10	8	2	3	Cromer.
4·80	+0·17	39	+ 2	7·1	6·3	4·2	1·38	−1·14	0·34	16th	13	8	0	0	1	3	2	*5*	**5**	0	0	11	5	6	16	19	12	18	8	2	4	L. Mas'gh'm.
5·25	—	42	—	6·1	5·7	6·1	1·28	−1·13	0·72	14th	10	*5*	0	—	0	3	*1*	*5*	**5**	—	0	19	1	8	21	10	20	14	6	7	3	Yarmouth.
4·91	−0·26	39	− 3	7·1	—	4·5	2·63	+0·32	0·63	17th	18	**9**	0	0	0	**5**	4	9	0	—	0	0	5	11	18	12	16	12	3	10	3	Geldeston.
4·48	−0·49	36	− 4	7·1	—	3·8	1·50	−0·50	0·46	2nd	11	*5*	0	0	0	2	3	9	4	0	0	3	18	20	12	0	16	15	3	5	1	Cambridge.
5·14	—	41	—	6·4	5·8	5·4	0·54	—	0·16	16th	9	6	0	—	0	1	2	6	1	0	0	23	1	8	18	4	28	13	4	6	8	Clacton.
3·82	—	31	—	7·4	—	4·6	1·65	—	0·92	1st	11	6	0	0	0	0	4	10	4	—	0	12	13	6	18	15	12	9	7	5	5	Woburn.
4·00	—	32	—	7·2	6·8	4·4	1·25	−1·02	0·38	19th	11	8	0	0	0	2	4	10	**5**	0	0	3	11	2	10	19	16	10	10	10	2	Bennington.
4·06	—	33	—	7·1	—	4·5	1·33	−1·04	0·42	19th	11	8	0	0	0	2	4	10	0	0	0	0	51	6	10	2	6	9	0	3	3	Berkh'mst'd.
3·28	—	26	—	6·5	—	5·4	1·35	—	0·58	17th	15	9	0	0	0	0	4	9	3	4	0	0	10	6	20	22	5	18	4	5	0	Garforth.
3·29	—	26	—	7·6	6·0	7·0	2·30	—	1·05	17th	17	**12**	0	0	0	0	*1*	10	2	0	0	11	25	14	15	11	10	3	1	7	4	Huddersf'ld.
3·08	—	25	—	7·9	—	6·9	3·00	+0·42	1·69	17th	13	11	0	0	0	1	2	15	3	0	0	9	24	18	16	2	15	3	3	5	4	Sheffield.
3·73	−0·24	30	− 2	8·1	6·3	5·8	2·13	+0·11	0·94	17th	12	9	0	0	0	2	2	10	5	1	0	3	15	14	22	2	13	12	7	2	3	Worksop.
3·71	—	30	—	7·3	5·0	5·2	1·68	−2·49	0·32	17, 22	17	10	0	0	0	0	4	7	0	0	0	2	5	3	17	9	18	12	5	8	13	Buxton.
4·09	—	33	—	6·4	—	4·4	2·39	+0·11	0·77	1st	17	9	0	0	0	**4**	5	10	**15**	0	0	21	19	18	7	3	2	18	15	6	2	Belvoir C.
3·91	—	31	—	6·9	—	—	1·68	−0·69	0·67	1st	14	8	0	0	0	0	**6**	**16**	0	1	0	36	0	9	24	6	21	9	3	6	12	Coventry.
3·85	—	31	—	6·4	6·5	—	1·06	—	0·57	1st	9	5	0	0	0	2	2	12	2	0	0	21	1	6	15	21	13	6	8	8	12	Thrapston.
4·08	—	33	—	7·3	6·7	3·9	1·76	−0·38	0·33	1st	15	**12**	0	—	0	**4**	*1*	7	3	0	0	24	0	7	19	21	10	10	13	9	1	Nottingham.
2·81	—	23	—	6·4	—	6·3	1·93	−0·44	0·43	22nd	17	10	0	0	0	2	4	12	1	2	0	0	15	6	9	22	6	18	8	3	3	Birmingh'm.
3·92	−0·91	31	− 8	6·7	—	—	1·75	−0·36	0·54	1st	13	11	0	0	0	1	—	—	4	0	0	20	3	15	23	4	16	12	7	5	5	Oxford.
							1·87	−0·64	—	—																					
4·20	—	34	—	7·6	—	6·5	3·17	+0·43	1·28	4th	12	9	0	—	0	2	*1*	15	0	—	0	9	25	4	9	22	5	11	6	6	2	Bath.
—	—	—	—	7·1	—	6·4	1·71	—	0·57	22nd	14	8	0	0	0	0	3	13	3	0	0	3	33	9	15	4	3	8	9	3	6	Shrewsbury.
—	—	—	—	7·6	—	6·4	1·67	—	0·55	22nd	15	10	0	0	0	0	3	14	2	0	0	6	46	0	16	3	3	2	8	3	9	Wistanstow.
—	—	—	—	7·4	—	5·4	2·67	—	0·74	1st	12	**12**	0	0	0	1	2	13	3	0	0	3	34	5	6	16	6	15	3	5	0	Bromyard.
3·68	—	29	—	6·9	—	4·1	2·81	+0·36	0·91	1st	10	9	0	0	0	2	5	7	0	0	0	32	6	5	18	2	4	19	24	5	7	Cheltenham.
4·45	—	36	—	6·6	—	4·3	1·85	−0·17	0·71	1st	12	*6*	0	0	0	0	5	9	0	—	0	0	40	9	3	2	2	12	7	6	9	Reading.
—	—	—	—	6·5	—	4·7	3·99	+1·53	1·32	4th	21	10	0	0	0	0	4	6	4	0	0	26	0	19	21	0	27	6	8	0	9	Salisbury.
4·41	—	35	—	6·8	6·3	—	3·88	—	1·38	4th	15	10	0	0	0	0	2	13	**7**	0	0	3	3	9	16	8	19	9	8	3	15	Grayshott.
4·51	—	36	—	6·5	6·0	—	3·10	—	1·55	4th	13	**11**	0	0	1	1	3	10	0	—	0	29	6	4	21	5	22	5	12	0	15	Midhurst.
5·40	−0·10	43	− 1	—	—	—	1·73	−0·66	0·64	4th	8	8	0	0	0	0	—	—	0	0	0	22	—	—	—	—	—	—	—	—	—	Brighton.
5·17	—	42	—	5·4	—	—	2·82	+0·28	0·84	4th	11	10	**0**	0	0	0	12	**14**	0	0	0	57	0	9	15	12	18	6	6	9	15	Portsmouth.
5·34	−0·23	43	− 2	4·5	—	2·2	2·19	−0·68	0·84	4th	12	**11**	0	0	0	1	**13**	*3*	0	—	0	0	3	5	30	6	10	9	14	6	7	Eastbourne.
5·67	—	46	—	5·2	—	5·1	2·00	—	0·53	18th	17	7	0	—	0	1	7	8	2	0	0	32	3	13	18	2	13	11	18	6	6	Dover.
—	—	—	—	7·0	6·3	5·7	2·04	−0·26	0·67	5th	10	9	0	—	0	0	*2*	8	4	—	0	38	2	9	18	11	12	8	17	4	9	Dungeness.
5·39	−0·18	43	− 2	5·0	—	3·6	1·68	−1·00	0·52	5th	12	7	0	0	0	0	9	5	0	0	0	26	2	15	17	19	6	6	16	9	0	Hastings.
4·66	−0·64	38	− 5	6·2	—	3·8	2·13	−0·43	0·61	1st	12	10	0	0	0	0	4	7	1	0	0	11	0	0	38	0	24	0	15	0	13	S'mpton.
5·32	−0·38	43	− 3	6·6	5·2	—	2·31	−0·48	0·75	5th	11	7	0	0	0	0	4	11	0	—	0	17	0	15	10	24	6	15	9	11	0	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·914	—	9·964	66·6	52·1	59·4	+1·7	76	27th	43	16, 19	—	60·5	58·7	—	57·3	1·4	—	1·6	·422	—	·426	86	—	90
p Hampstead ...	9, –, 9	453	9·514	—	9·990	64·9	51·8	58·4	—	74	26, 27	44	10th	—	—	57·7	—	56·1	2·6	—	1·9	·400	—	·396	84	—	87
a Camden Square ...	9, –, 9	123	9·852	—	9·973	69·0	51·3	60·2	+1·7	78	26, 27	43	16th	57·9	57·4	58·9	—	56·4	2·5	—	1·5	·420	—	·410	85	—	90
a Westminster ...	9, 3, –	—	—	—	—	67·0	53·5	60·3	+2·4	76	26, 27	46	19th	—	—	59·7	65·2	—	2·2	5·1	—	·443	·447	—	87	73	—
a South Kensington*	9, 3, 6	70	9·899	—	9·973	66·8	54·2	60·5	—	77	27th	48	10, 16, 19	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·800	—	9·971	67·8	50·2	59·0	+1·9	77	26th	42	19th	—	59·4	59·6	64·9	55·2	3·0	6·1	1·2	·417	415	·401	83	67	92
			9·798	–·030	9·971			57·7	+0·4																		
Kew ... ¶§	9, 3, 9	34	9·939	–·032	9·973	65·9	51·9	58·9	+1·8	75	26th	45	19th	58·2	57·5	58·7	64·9	57·0	2·5	6·0	1·9	·412	·423	·413	85	69	88
			9·935	–·034	9·971			58·3	+1·6																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	9·165	—	0·004	59·3	44·8	52·1	—	69	28th	32	22nd	—	—	52·0	57·4	50·4	2·1	4·7	1·6	·336	·345	·329	86	73	89
p Poltalloch ... § ¶	9, –, 9	135	9·841	—	9·983	61·0	46·8	53·9	–0·2	67	6th	38	7, 18, 22	—	—	55·0	—	52·3	2·3	—	1·4	·367	—	·354	85	—	90
a Glasgow	7, 1, 9	355	9·620	—	0·006	58·9	47·1	53·0	–0·2	67	24, 28	39	7th	—	—	49·9	56·7	51·7	1·3	4·0	1·6	·326	·349	·342	91	75	89
p Rothesay ... § ¶	9, –, 9	76	9·915	—	9·991	59·9	48·2	54·1	+0·2	65	24th	42	17, 22	54·9	54·4	53·8	—	52·7	2·3	—	1·8	·351	—	·349	85	—	88
a Colmonell ... § ¶	9, 3, –	150	9·839	—	0·006	63·3	47·3	55·3	+1·4	71	5th	33	17th	—	—	54·8	60·0	—	1·8	3·6	—	·378	·406	—	88	78	—
p Dumfries ... § ¶	9, –, 9	155	9·858	—	0·021	63·0	48·2	55·6	+0·9	73	28th	39	8th	56·2	57·3	54·7	—	54·0	3·0	—	2·1	·346	—	·357	80	—	85
p Cally ... § ¶	9, –, 9	120	—	—	—	62·7	45·7	54·2	+1·0	70	28th	36	22nd	—	—	56·6	—	53·5	2·3	—	2·3	·391	—	·345	85	—	84
p Douglas ... ¶§	9, –, 9	284	9·677	—	9·976	60·9	51·7	56·3	+2·0	65	27, 28	44	8th	—	—	56·5	—	55·1	2·0	—	1·3	·400	—	·400	88	—	92
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·934	—	9·977	64·1	50·5	57·3	+2·0	73	27th	39	8th	57·7	58·3	57·5	63·0	55·0	3·1	5·8	1·8	·387	·398	·385	81	69	88
p Manchester (City)	9, –, 9	195	9·781	—	9·982	65·0	53·4	59·2	—	78	27th	44	8th	58·2	60·2	57·7	—	58·1	3·5	—	3·5	·380	—	·385	80	—	79
p „(WhitworthPk.)¶	9, –, 9	127	9·840	—	9·968	65·2	52·1	58·7	—	78	27th	41	10th	—	—	58·2	—	57·1	2·7	—	1·8	·404	—	·413	83	—	88
p Darwen	9, –, 9	730	9·211	—	9·989	61·9	49·4	55·7	—	72	27th	42	8, 16	56·9	55·4	56·3	—	54·3	3·0	—	1·9	·373	—	·372	82	—	88
p Egremont	9, –, 9	354	9·609	—	9·983	63·2	48·6	55·9	—	71	27th	40	15th	56·8	55·7	57·4	—	54·2	3·2	—	2·2	·382	—	·366	81	—	86
p Aspatria ... ¶§	9, –, 9	254	9·716	—	9·981	63·2	47·2	55·2	+1·5	76	26th	32	18th	55·4	54·7	56·2	—	53·5	2·5	—	1·3	·382	—	·376	85	—	92
p Newton Rigg ¶§	9, –, 9	559	9·397	—	9·994	63·2	45·5	54·4	+1·5	70	27, 28	35	8, 17	56·1	55·4	53·2	—	52·9	1·5	—	1·5	·363	—	·359	90	—	90
p Stonyhurst ¶§	–, –, 9	363	—	—	—	62·9	50·5	56·7	+2·2	73	27th	40	8th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·901	—	9·972	64·5	50·2	57·4	+1·9	73	27th	39	8th	57·0	55·7	59·0	—	55·6	3·6	—	1·7	·394	—	·396	79	—	89
p Liverpool (Bid.) ¶	9, –, 9	202	9·757	—	9·967	63·1	52·1	57·6	+1·5	72	27th	45	16th	—	—	56·8	—	56·8	3·2	—	2·9	·370	—	·377	80	—	81
p Llandudno... ¶§	9, –, 9	32	9·896	—	9·921	64·6	52·6	58·6	+1·6	74	27th	43	16th	—	—	58·4	—	58·8	3·1	—	3·3	·396	—	·397	81	—	80
a Holyhead ... ¶	7, 1, 9	48	9·931	–·016	9·947	62·7	53·5	58·1	+1·6	73	27th	47	16th	—	—	55·9	60·7	57·3	1·7	3·9	1·7	·398	·409	·418	89	78	89
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	63·8	50·5	57·2	+0·6	71	27th	40	17th	55·6	55·0	57·5	—	59·5	2·9	—	3·4	·389	—	·404	82	—	80
p Dwyran	9, –, 9	30	9·933	—	9·956	63·8	51·8	57·8	—	74	27th	39	8th	58·5	57·8	58·8	—	57·3	2·5	—	0·9	·419	—	·442	85	—	94
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·347	—	9·968	62·9	48·3	55·6	+1·1	76	27th	36	8, 16	56·3	55·5	55·0	—	—	1·4	—	—	·392	—	—	91	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·768	–·051	9·927	62·5	53·4	58·0	+1·2	69	27, 28	47	14th	—	—	55·5	60·0	57·2	0·5	1·3	0·7	·426	·475	·447	96	92	96
a Portland Bill ¶	7, 1, 9	23	9·907	–·073	9·941	63·3	55·4	59·4	+0·1	67	7, 8	50	10, 18	—	—	58·1	62·2	59·3	2·1	3·6	2·2	·420	·441	·435	86	79	87
p Plymouth ... ¶§	9. 3, 9	116	9·807	—	9·928	64·9	54·6	59·8	+2·1	74	27th	48	22nd	60·0	—	59·9	63·0	58·6	2·5	3·6	2·0	·436	·455	·431	85	79	88
Falmouth ... ¶§	7, 1, 6	183	9·743	–·087	9·935	63·7	53·5	58·6	+1·2	71	11th	46	14th	61·1	60·3	55·8	62·2	59·4	1·0	3·7	2·4	·418	·445	·436	93	79	85
p Cardiff	9, –, 9	216	9·725	—	9·949	63·8	52·3	58·1	+1·3	75	27th	45	16th	58·2	58·2	57·0	—	56·4	2·4	—	2·0	·394	—	·396	85	—	87
a Newquay ... §	7, –, 6	161	9·781	–·075	9·920	63·0	54·1	58·6	+0·6	69	12, 27	47	15, 17, 19	59·7	—	57·6	—	60·0	1·7	—	2·6	·424	—	·435	88	—	84
p Woolacombe ...	9, –, 9	120	9·830	—	9·951	64·4	54·6	59·5	–0·2	74	27th	48	15th	—	—	60·0	—	59·0	2·8	—	2·3	·432	—	·431	83	—	86
a Princetown ...	9, 3, –	1360	8·475	—	—	59·7	49·7	54·7	—	71	27th	43	14, 15	—	—	54·5	57·3	—	1·9	2·8	—	·371	·388	—	87	82	—
p Sheepstor	9, 3, 9	730	9·162	—	9·938	63·4	49·6	56·5	—	75	27th	41	11th	—	—	57·7	61·2	54·3	2·3	3·8	1·1	·411	·422	·394	86	79	93
p Teignmouth ...	9, 3, 9	20	9·931	—	9·949	64·7	54·5	59·6	—	71	9th	45	19th	—	—	58·8	63·0	59·5	2·6	4·0	2·4	·420	·447	·436	84	78	86
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·689	+·047	9·941	59·1	?	?	?	67	24th	?	?	—	—	53·3	57·4	56·3	1·0	1·6	1·3	·379	·423	·415	93	90	91
West. *a* Blacksod Point ¶	7, 1, 9	41	9·887	+·005	9·931	61·5	50·9	56·2	+0·6	69	6th	45	13th	—	—	55·5	59·6	56·0	1·5	3·0	1·6	·397	·417	·402	90	82	89
West. *p* Markree Castle ¶§	9, –, 9	127	9·815	—	9·945	63·3	46·6	55·0	+1·3	70	28th	38	13th	57·8	56·5	55·7	—	52·8	1·7	—	1·6	·395	—	·355	89	—	88
East. *a* Donaghadee ¶	7, 1, 9	40	9·927	+·025	9·968	59·9	51·5	55·7	+1·0	67	8th	44	22nd	—	—	54·4	57·9	54·8	1·7	2·9	1·6	·376	·394	·384	89	82	89
East. *p* Armagh ... ¶§	9, –, 9	202	9·738	—	9·949	62·6	48·3	55·5	+1·7	68	11, 28	37	17th	56·7	56·4	56·0	—	52·1	2·3	—	2·1	·386	—	·339	86	—	87
East. *a* Belfast	9, –, 9	55	—	—	—	61·6	49·6	55·6	—	66	11,26,28	36	17th	—	—	55·7	—	55·0	2·6	—	2·1	·371	—	·375	83	—	86
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	63·1	46·7	54·9	—	70	11th	33	18th	56·4	56·5	55·3	—	53·6	1·5	—	1·0	·394	—	·383	90	—	93
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	62·7	50·5	56·6	—	72	11th	41	18th	58·1	57·5	58·4	—	55·9	3·5	—	2·3	·389	—	·383	80	—	86
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·787	—	9·952	62·5	46·0	54·3	+0·3	72	11th	33	17th	—	—	57·4	—	51·9	2·8	—	1·3	·393	—	·358	83	—	91
East. *p* „ (City)... ¶	9, –, 9	53	9·892	—	9·943	61·6	51·4	56·5	+0·6	70	11th	42	17, 18	—	—	56·4	—	54·9	2·3	—	1·7	·392	—	·387	86	—	89
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·739	–·035	9·932	63·4	47·2	55·3	+0·7	71	28th	35	19th	57·7	57·8	51·6	60·8	59·0	0·7	4·0	3·1	·363	·407	·404	95	78	81
West. Valencia ... ¶§	9, 3, 9	45	9·888	–·042	9·932	62·5	52·5	57·5	+0·9	68	29th	43	18th	—	—	57·3	61·1	57·4	2·1	3·4	1·9	·410	·435	·419	87	80	88
			9·883	–·042	9·932			57·8	+1·4																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·889	–·038	9·943	63·0	53·1	58·1	+1·5	73	11th	47	18th	—	—	55·8	61·4	59·2	1·2	3·5	2·2	·411	·432	·433	92	80	87
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·868	—	9·917	63·8	48·0	55·9	—	69	6th	36	17th	58·7	—	55·9	61·6	54·5	1·0	2·8	0·7	·419	·457	·405	94	84	96
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·750	–·078	9·912	62·7	54·7	58·7	+0·1	67	1, 2	48	14, 15	—	—	57·2	61·1	57·3	0·8	1·7	0·6	·443	·482	·452	95	89	96
a Jersey ... ¶§	7, 1, 9	36	9·918	–·065	9·954	68·2	55·2	61·7	+1·3	76	27, 29	47	15th	—	—	59·0	65·1	60·4	2·0	5·3	2·6	·436	·440	·442	88	72	85
p Guernsey (Brooklyn).	9, –, 9	311	9·620	—	9·946	66·2	55·6	60·9	+1·4	73	27th	49	15th	61·8	61·4	60·2	—	58·2	2·6	—	1·6	·442	—	·434	84	—	90
a Gibraltar ...	7, 1, 9	53	9·943	—	9·999	74·7	61·8	68·3	—	85	5th	56	19, 20	—	—	64·0	72·0	66·9	2.6	7·0	3·9	·507	·517	·520	85	67	79

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of SEPTEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 90 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
4·24	—	34	—	6·8	—	4·5	1·34	—	0·32	16th	7	6	0	0	0	1	7	9	0	0	0	3	1	16	14	6	21	5	6	5	16	Tottenham.
4·40	—	35	—	7·4	—	4·8	1·77	—	0·41	16th	11	8	0	0	0	1	3	9	3	0	0	2	33	4	24	5	5	7	6	2	4	Hampstead.
3·71	—	30	—	6·7	—	—	1·75	−0·42	0·46	16th	11	9	0	0	0	1	8	16	3	0	—	—	3	24	30	3	6	6	3	6	9	Camden Sq.
4·25	+0·35	34	+ 3	—	—	—	1·53	−0·53	0·39	16th	11	9	0	—	0	2	—	—	4	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
3·94	—	32	—	6·6	—	4·7	1·56	—	0·36	16th	11	8	0	—	0	2	3	9	0	0	0	9	8	7	16	16	11	9	13	6	4	S.Kensingtn
4·95	−0·19	39	− 2	6·8	6·2	4·3	1·25	−0·90	0·40	16th	11	7	0	0	0	1	2	9	11	1	0	1	15	3	11	16	11	13	12	6	3	Greenwich.
4·18	−0·52	34	− 4	6·5	5·7	4·4	1·69	−0·44	0·37	16th	12	10	0	0	0	2	2	5	6	0	0	10	21	10	18	10	9	10	3	5	4	Kew.
3·08	—	25	—	8·7	7·6	6·8	2·50	—	0·83	13th	10	8	0	0	0	0	*1*	15	0	—	0	32	26	8	30	0	12	8	6	0	0	Eskdalemuir
—	—	—	—	7·1	—	6·2	2·94	−2·18	0·78	11th	13	13	0	0	0	1	6	**17**	3	—	0	17	12	3	15	12	16	18	9	5	0	Poltalloch.
2·67	−0·66	21	− 6	7·6	7·5	6·0	2·52	−1·06	0·64	13th	13	9	0	—	0	0	*1*	*10*	**7**	0	0	13	5	2	33	20	5	5	10	8	2	Glasgow.
—	—	—	—	6·7	—	6·2	2·59	−1·90	0·53	13th	14	**14**	0	0	0	1	5	12	4	—	0	18	22	2	5	44	4	6	0	7	0	Rothesay.
—	—	—	—	6·0	—	—	3·31	−0·75	0·75	14th	12	10	0	0	0	1	**7**	13	1	1	0	12	15	3	12	18	15	15	6	6	0	Colmonell.
3·53	—	28	—	6·3	—	5·8	2·30	−1·07	0·85	13th	8	7	0	0	0	0	5	*10*	0	0	0	5	0	3	33	6	18	3	8	7	12	Dumfries.
—	—	—	—	—	—	—	3·21	−0·92	0·88	13th	9	7	0	0	0	1	—	—	0	—	0	24	0	9	16	6	18	2	15	6	18	Cally.
4·26	−0·54	34	− 4	7·2	—	5·6	2·99	−0·72	0·72	22nd	12	9	0	0	0	1	4	12	1	0	0	23	0	5	15	24	21	4	6	9	6	Douglas.
4·10	−0·27	33	− 2	6·2	6·6	6·5	2·29	−0·91	0·94	26th	12	8	0	0	0	1	1	11	**3**	1	0	41	5	3	17	20	21	7	5	7	5	Southport.
3·65	—	29	—	5·5	—	4·9	1·50	−1·78	0·35	25th	13	10	0	0	0	0	3	*2*	0	0	0	3	0	16	18	14	14	6	4	9	9	Manchester.
3·75	—	30	—	6·7	5·9	5·9	1·55	—	0·34	25th	13	10	0	0	0	0	2	12	1	—	0	19	18	4	20	15	14	10	3	4	2	Whitwth Pk.
3·74	—	30	—	7·7	—	7·7	2·59	—	0·59	25th	14	**11**	0	0	0	0	0	14	0	0	0	38	1	3	23	6	12	30	6	6	3	Darwen
4·01	—	32	—	6·4	—	4·1	3·18	—	0·72	13th	10	9	0	0	0	1	11	12	0	0	0	17	12	17	9	1	29	12	c	3	7	Egremont.
4·17	—	33	—	5·9	—	4·7	2·65	−1·24	1·15	13th	10	7	0	0	0	0	7	10	0	0	0	11	27	2	16	22	8	3	5	7	0	Aspatria.
4·48	+0·38	36	+ 3	5·2	—	5·3	2·02	−1·05	0·82	12th	10	7	0	0	0	0	4	9	2	2	0	14	19	7	9	5	28	12	6	2	2	N'wt'n Rigg.
4·09	−0·14	33	− 1	—	—	—	1·94	−2·52	0·65	25th	11	7	0	—	0	0	—	—	0	0	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
4·27	+0·04	34	0	8·2	—	7·1	3·22	−0·19	1·29	26th	13	8	0	0	0	1	0	13	0	2	0	27	0	6	21	21	25	5	3	6	3	Blackpool.
3·93	—	31	—	6·4	—	7·1	2·33	−0·63	0·50	26th	14	10	0	0	0	2	1	10	1	—	0	11	1	5	16	20	22	5	6	10	5	Liverpool.
4·38	+0·08	35	0	5·9	—	7·3	3·84	+1·08	1·45	12th	15	**11**	0	0	0	0	4	**16**	0	—	0	0	6	6	5	34	3	21	3	12	0	Llandudno.
4·67	—	37	—	6·1	6·6	6·0	4·21	+1·25	1·29	13th	14	10	0	—	0	0	4	11	**3**	—	1	22	2	6	20	22	7	17	9	5	2	Holyhead.
2·15	—	17	—	4·1	—	4·1	—	—	—	—	—	—	0	0	0	0	7	0	4	0	0	15	39	3	4	5	15	6	6	9	3	Bettws.
5·08	—	41	—	5·5	—	6·0	6·06	—	1·80	12th	11	10	0	0	0	1	6	10	0	0	1	8	48	3	13	2	5	15	4	0	0	Dwyran.
3·24	—	26	—	8·4	—	—	3·61	—	1·03	4th	15	10	0	0	0	0	2	**21**	4	0	0	18	24	3	15	18	6	9	3	12	0	Llangamch.
3·66	−1·31	29	−11	6·4	6·5	5·9	6·08	+2·98	1·74	12th	17	13	0	—	0	1	2	4	**2**	—	0	37	4	9	15	19	10	10	9	4	10	Pembroke.
—	—	—	—	6·3	6·1	4·9	2·38	—	0·63	5th	9	9	0	—	0	1	*3*	2	—	1	1	51	1	8	24	15	12	7	8	10	5	Portl'nd Bill
4·01	−1·16	32	−10	8·4	7·9	5·7	2·91	−0·18	0·97	5th	15	11	0	0	0	1	0	13	0	0	0	23	12	4	15	25	6	11	9	2	6	Plymouth.
3·99	−1·34	32	−11	7·4	7·4	6·5	2·44	−1·32	0·56	3rd	18	10	0	0	0	2	2	15	0	—	0	1	18	12	9	12	9	8	10	4	8	Falmouth.
3·85	—	31	—	—	—	—	3·50	−0·41	1·70	4th	12	9	0	0	0	1	—	—	1	0	0	26	16	0	34	11	6	5	4	5	9	Cardiff.
3·97	−1·23	32	−10	6·5	—	6·3	4·38	+1·02	1·02	5th	19	14	0	—	1	**3**	**5**	13	6	—	0	26	7	10	9	12	18	11	6	8	9	Newquay.
2·90	−2·00	23	−16	6·7	—	4·8	1·59	−1·44	0·47	19th	14	12	0	0	0	0	4	9	0	—	0	14	7	3	27	22	12	2	6	5	6	Woolac'mbe.
—	—	—	—	8·4	8·5	—	6·71	—	1·67	3rd	21	**15**	0	0	1	2	1	19	**12**	—	0	29	0	0	30	6	23	4	14	0	13	Princetown.
—	—	—	—	6·6	6·5	5·4	5·19	—	1·51	5th	16	**15**	0	0	0	3	4	8	8	—	1	40	9	2	25	18	9	6	10	4	7	Sheepstor.
3·61	—	29	—	6·4	7·0	6·1	1·65	—	0·57	5th	10	8	0	0	0	2	1	12	3	0	0	31	0	3	13	23	15	12	5	9	10	Teignmouth
—	—	—	—	7·3	6·9	6·7	2·93	−0·02	0·61	19th	14	11	0	—	0	0	0	7	0	—	5	31	0	9	5	17	21	14	10	6	8	Malin Head.
—	—	—	—	7·4	5·8	7·1	4·71	+0·45	1·14	27th	21	13	0	—	0	0	0	10	1	—	0	14	2	12	10	6	14	7	12	22	5	Blacksod Pt.
3·50	−0·13	28	− 1	7·5	—	7·3	3·03	−0·76	0·70	14th	14	13	0	0	0	0	2	13	4	0	0	2	57	4	3	6	9	3	0	3	5	Markree Cas.
—	—	—	—	7·5	6·8	5·9	2·92	+0·08	0·66	13th	16	12	0	—	0	1	0	8	6	—	0	19	0	7	8	17	12	21	13	6	6	Donaghadee.
3·05	−0·88	24	− 8	8·4	—	6·7	4·13	+1·26	1·67	13th	18	10	0	0	0	1	1	18	3	1	0	2	53	1	8	5	9	9	5	0	0	Armagh.
—	—	—	—	—	—	—	4·15	+1·16	1·20	13th	15	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·9	—	5·8	4·62	—	1·22	13th	15	13	c	0	0	0	3	6	0	—	0	6	15	5	16	5	15	13	6	6	9	Newtown-forbes.
2·82	—	23	—	7·5	—	5·2	4·26	—	1·60	19th	10	9	0	0	0	0	**3**	9	3	0	0	3	40	0	5	22	10	2	0	5	6	Dublin T. C.
2·94	−1·83	24	−14	8·1	—	5·5	4·10	+1·88	1·34	19th	13	9	0	0	0	0	1	11	0	0	0	2	33	2	13	18	4	3	6	7	4	Phœnix Pk.
—	—	—	—	7·4	—	5·9	4·31	+2·10	1·65	19th	13	10	0	0	0	0	**3**	12	2	0	0	15	14	9	14	12	9	10	3	12	7	Dublin (City).
3·71	−0·56	30	− 4	8·1	7·0	7·0	3·20	+0·44	0·54	19th	19	13	0	—	0	0	0	*4*	**6**	0	0	12	0	8	12	15	8	12	14	9	12	Birr Castle.
3·58	−0·75	29	− 6	7·4	7·3	7·2	5·48	+0·98	1·01	21st	22	**16**	0	0	0	0	1	13	0	—	—	20	26	9	9	4	2	15	3	11	11	Valencia.
—	—	—	—	7·1	6·8	7·4	5·83	+2·31	1·83	15th	22	14	0	—	0	0	2	**14**	2	—	1	23	0	18	9	14	8	22	9	3	7	Roche's Pt.
3·59	—	29	—	8·3	7·3	6·2	4·85	—	1·32	24th	15	14	0	0	0	0	0	**14**	4	0	1	21	25	6	21	3	8	8	4	5	10	Limerick.
3·76	−1·91	30	−15	7·0	7·0	6·2	3·94	+0·91	1·11	13th	18	**13**	0	—	0	0	0	7	0	—	1	31	4	10	16	16	10	11	5	6	12	Scilly.
6·70	+0·63	54	+ 5	6·2	4·9	5·3	0·68	−2·24	0·27	20th	10	*5*	0	—	0	2	3	2	0	—	0	26	0	6	14	15	13	4	12	17	9	Jersey.
5·79	−0·14	47	− 1	6·4	—	4·8	1·69	−1·48	0·32	13th	15	7	0	0	0	2	3	7	5	0	0	23	13	3	19	3	18	3	9	14	8	Guernsey.
—	—	—	—	4·1	5·1	2·8	2·16	—	0·43	30th	10	9	0	0	0	3	11	2	0	0	0	26	2	0	0	24	3	1	4	51	5	Gibraltar.

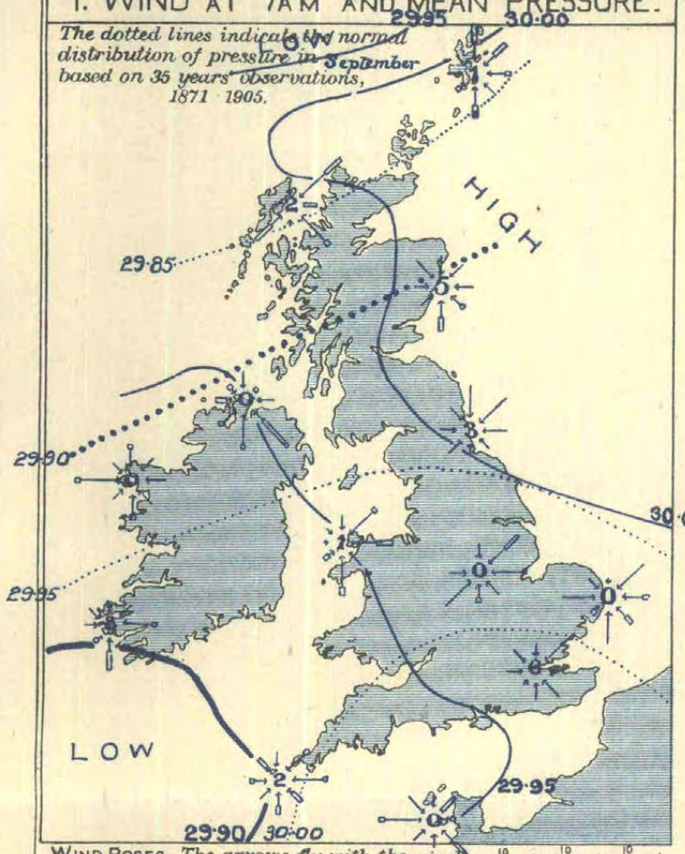
TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, SEPTEMBER, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A	Means of B	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Max.	Min.																						
0. SCOTLAND, N.	Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Baltasound ... §	31	54·4	48·1	51·3	—	59	27th	44	21st	51·9	—	1·29	—	0·55	25th	20	0	0	0	1	—	1·75	—	14	—
a Fortrose	69	59·2	47·2	53·2	—	67	4, 7	40	7, 8	—	—	1·64	—	0·54	14th	10	0	0	0	2	—	2·97	—	24	—
1. SCOTLAND, E.																									
a Crathes ... ... §§	140	60·1	47·4	53·8	—	68	5th	39	5th	54·4	54·0	3·81	—	1·24	13th	16	0	0	1	1	0	2·23	—	18	—
p Stonehaven	86	59·5	49·1	54·3	—	69	9th	42	17th	—	—	2·95	—	0·72	15th	17	0	0	0	1	—	2·62	—	21	—
p Balruddery ... §§	276	59·7	45·4	52·6	—	68	21st	38	17th	—	—	2·13	—	0·53	13th	10	0	0	0	0	0	—	—	—	—
a Carnoustie	39	58·8	49·0	53·9	—	64	11th	41	17th	—	—	2·45	—	0·47	16, 17	14	0	0	0	0	—	3·07	—	24	—
a St. Andrews	20	60·3	48·5	54·4	—	68	26th	36	17th	54·9	54·4	2·02	—	0·60	16th	10	0	0	0	0	1	2·75	—	22	—
2. ENGLAND, N.E.																									
a Alnwick Castle ... ¶	210	60·6	48·5	54·6	+ 1·1	72	12th	38	8th	—	—	2·62	+0·03	0·56	19th	15	0	0	1	0	—	—	—	—	—
a Bellingham	848	60·8	46·6	53·7	—	67	12,24,28	38	8th	—	—	1·86	—	0·46	12th	15	0	0	0	3	—	—	—	—	—
a Tynemouth	90	62·4	50·9	56·7	—	71	12th	42	8th	56·5	55·5	4·00	—	1·27	26th	15	0	0	3	3	0	3·07	—	24	—
a Chopwellwood	445	61·8	48·0	54·9	—	70	27th	39	15th	—	—	4·09	—	1·15	26th	15	0	0	2	2	3	2·96	—	24	—
a Ushaw	599	62·4	48·7	55·6	—	71	11th	41	8th	—	—	3·42	—	1·38	26th	16	0	0	2	2	—	—	—	—	—
a Ampleforth	349	64·1	50·4	57·3	—	76	27th	40	8th	—	—	0·93	—	0·20	13th	14	0	0	1	3	—	—	—	—	—
a West Witton	605	62·4	48·8	55·6	—	69	12th	37	8th	55·5	53·7	1·74	—	0·49	25th	11	0	0	0	7	0	—	—	—	—
a Fulbeck ... ... ¶	180	65·6	49·4	57·5	+ 1·6	76	27th	35	16th	—	—	1·91	−0·15	0·54	1st	14	0	0	1	0	1	—	—	—	—
a Rauceby ... ... §	124	66·0	49·4	57·7	—	77	27th	35	16th	58·5	57·0	1·71	−0·64	0·72	1st	13	—	—	—	—	—	4·13	—	33	—
3. ENGLAND, E.																									
a Norwich	93	65·6	48·2	56·9	—	73	26th	40	16th	58·4	—	3·05	—	0·96	18th	14	0	0	2	1	0	4·84	—	39	—
a Peterborough (Eye) ...	16	65·8	49·7	57·8	—	75	27th	36	16th	—	—	1·78	—	0·40	1, 18	11	0	1	4	1	—	—	—	—	—
a Ridgewell	269	64·8	50·2	57·5	—	74	27th	41	16th	—	—	1·03	—	0·35	16th	14	0	0	3	4	—	—	—	—	—
a Ipswich (Copdock) ...	164	65·3	50·8	58·1	—	72	26th	40	16th	58·1	57·4	1·18	—	0·58	16th	12	0	0	2	1	—	4·66	—	37	—
a Felixstowe	10	64·2	54·8	59·5	+ 2·5	69	11th	46	9, 10	—	—	0·95	—	0·35	16th	12	0	0	1	0	—	5·88	—	47	—
a Walton-on-Naze	68	63·0	55·2	59·1	—	66	26th	47	10th	—	—	1·59	—	0·43	17th	11	0	0	1	0	0	4·89	—	39	—
a Halstead	139	66·5	50·0	58·3	—	76	26th	37	16th	—	—	0·91	—	0·22	16th	11	0	0	1	0	—	—	—	—	—
a Chelmsford	134	67·0	49·5	58·3	—	75	26th	36	16th	—	—	0·85	—	0·31	16th	9	0	0	0	0	—	—	—	—	—
p Hemel Hempstead ...	535	64·9	48·7	56·8	—	74	27th	41	15, 16	—	—	1·57	—	0·55	19th	14	0	0	0	0	0	—	—	—	—
a Rothamsted ... ¶§	424	65·7	49·6	57·7	+ 2·0	75	27th	38	16th	—	—	1·25	−1·15	0·44	19th	15	0	0	2	3	—	4·14	−0·73	33	− 6
a Shoeburyness	13	65·2	52·5	58·9	+ 0·3	72	26th	45	10, 16	—	—	0·83	−1·07	0·22	6th	11	0	0	0	4	—	—	—	—	—
a Southend	90	66·7	54·7	60·7	—	73	11,13,26	45	10th	61·6	—	0·76	−1·24	0·25	5th	12	0	0	0	0	0	4·72	—	38	—
4. MIDLAND COUNTIES.																									
a Harrogate ... ... ¶§	476	62·5	49·2	55·9	+ 1·8	74	27th	37	15th	55·7	55·4	1·27	−1·21	0·28	17th	12	0	0	0	2	1	3·92	—	31	—
a Bradford	439	62·4	50·5	56·5	—	76	27th	38	8th	55·6	57·0	1·68	—	0·51	17th	12	0	0	0	1	0	3·66	—	29	—
a Meltham	513	63·0	49·0	56·0	—	77	27th	35	15th	55·1	—	2·14	—	0·92	17th	16	—	—	—	—	3	—	—	—	—
a Cheadle ... ... ¶	646	62·6	49·4	56·0	+ 1·8	75	27th	39	16th	—	—	2·36	−0·54	0·45	22nd	14	—	—	—	—	0	—	—	—	—
a Wellington	207	64·6	46·2	55·4	—	76	27th	32	8th	—	—	1·48	—	0·46	22nd	10	0	0	0	5	—	—	—	—	—
a Bawtry ... ... ¶	65	65·6	49·3	57·5	+ 2·1	79	27th	35	8th	—	—	3·62	+1·62	2 09	17th	14	0	0	1	0	—	—	—	—	—
a Matlock	636	64·0	49·2	56·6	—	77	27th	37	10th	—	—	1·81	—	0·39	17th	12	0	0	1	0	—	3·88	—	31	—
a Belper	222	65·2	48·7	57·0	—	78	27th	37	10th	—	—	1·61	—	0·35	19th	17	0	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...	280	63·4	50·0	56·7	—	76	27th	39	10th	—	—	1·66	−0·95	0·35	19th	15	0	1	0	2	—	—	—	—	—
a Mayfield (Staffs)	374	63·8	47·1	55·5	—	76	27th	32	10th	—	—	1·61	—	0·40	22nd	13	0	0	2	4	1	4·01	—	32	—
a Strelley	377	64·1	49·8	57·0	+ 2·0	77	27th	35	16th	56·9	—	1·84	−0·39	0·45	1st	16	0	0	2	2	—	3·65	−0·48	29	− 4
a Kingston-on-Soar... ...	125	65·7	49·1	57·4	—	79	27th	35	16th	57·5	—	1·64	—	0·55	1st	16	0	0	0	1	—	—	—	—	—
a Sparkhill	425	65·8	48·2	57·0	—	79	27th	39	10,16,17	—	—	1·83	—	0·49	1st	16	0	0	2	0	1	—	—	—	—
p Rugby	379	65·9	47·9	56·9	+ 1·3	79	27th	36	10th	—	—	1·62	—	0·80	1st	11	0	0	1	0	1	—	—	—	—
a Raunds ... ... ¶	204	67·4	49·4	58·4	+ 2·1	79	27th	35	16th	57·9	56·9	1·21	—	0·63	1st	11	0	0	1	3	2	3·81	—	31	—
a Malvern	520	62·8	51·3	57·1	—	75	27th	44	16th	—	—	3·64	—	1·01	4th	16	—	—	—	—	—	3·59	—	29	—
a Ross...	214	65·0	51·0	58·0	—	79	27th	42	16th	—	—	3·05	—	0·59	4th	16	0	0	0	1	—	—	—	—	—
a Hereford ... ... ¶	291	64·1	49·3	56·7	+ 0·9	77	27th	37	16th	—	—	2·83	+0·49	0·72	1st	15	0	0	0	0	0	—	—	—	—
a Leamington	165	65·3	50·3	57·8	—	78	27th	38	16th	60·1	59·6	1·97	—	0·88	1st	10	0	0	0	0	3	3·48	—	28	—
a Cirencester... ... ¶§	446	64·9	49·8	57·4	+ 2·3	75	27th	42	15th	57·7	57·0	2·48	−0·21	0·81	1st	12	—	—	—	—	0	4·02	−0·61	32	− 5
a High Wycombe	249	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
5. ENGLAND, S.E.																									
a Malmesbury	235	65·0	49·9	57·5	—	76	27th	42	10,15,16	—	—	3·74	—	1·39	4th	12	0	0	0	1	0	—	—	—	—
a Wokingham	216	65·8	47·3	56·6	—	77	28th	36	16th	—	—	1·72	—	0·83	1st	11	0	0	1	3	—	—	—	—	—
a Marlborough ... ¶§	424	64·4	48·2	56·3	+ 1·4	75	27th	38	16th	—	56·8	3·45	+0·75	1·35	4th	11	—	—	—	—	0	3·85	−0·48	31	− 4
a Bucklebury	409	65·6	49·5	57·6	—	74	27, 30	42	10,15,22	—	—	1·85	—	0·66	1st	12	0	0	0	0	0	—	—	—	—
a New Malden	39	66·8	50·8	58·8	—	77	26th	41	19th	59·0	58·4	1·84	—	0·62	1st	10	0	0	1	2	0	4·08	—	33	—
a Croydon (Addington) ...	472	64·4	51·7	58·1	—	74	26th	44	10th	—	—	1·76	—	0·42	5th	11	0	0	1	7	—	—	—	—	—
a Wallington	144	65·8	51·0	58·4	—	75	27th	41	10th	58·8	59·2	1·77	—	0·49	1st	15	0	0	1	4	0	—	—	—	—
a Woking	180	67·1	49·9	58·5	—	77	27th	37	15th	58·2	—	2·18	—	0·64	1st	12	—	—	—	—	0	—	—	—	—
a Margate ... ... ¶§	35	65·2	54·6	59·9	+ 1·3	72	26th	48	19th	58·0	56·8	3·03	+0·94	0·93	16th	10	0	0	1	0	0	5·23	+0·23	42	+ 2
a Aldershot	231	64·6	49·2	56·9	—	74	26th	38	15th	—	—	2·91	—	1·07	1st	15	0	0	0	2	—	—	—	—	—
a Wisley ... ... ¶§	150	66·0	50·4	58·2	+ 0·2	76	26, 27	40	10, 16	58·4	57·8	2·25	—	1·02	1st	11	0	0	0	2	1	4·59	—	37	—
a Basingstoke	289	65·0	50·2	57·6	—	75	27th	40	16th	57·4	56·6	2·35	—	0·66	1st	11	0	0	0	3	0	—	—	—	—
a Sevenoaks	509	64·8	51·0	57·9	—	75	26th	44	10,15,18	57·9	56·8	1·86	—	0·54	16th	11	0	0	2	1	0	—	—	—	—
a Tunbridge Wells ... ¶§	419	—	...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield	320	65·7	49·8	57·8	—	75	26th	40	18th	—	—	1·77	—	0·73	5th	12	0	0	1	1	0	—	—	—	—
Ramsgate	168	—	—	—	—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—
a Folkestone...	121	64·5	55·5	60·0	—	72	26th	50	9th	—	57·0	2·09	−0·38	0·47	16th	11	0	0	1	0	—	5·38	—	43	—
a Bexhill	27	65·1	55·2	60·2	—	70	3rd	48	9, 10, 21	61·8	—	1·93	—	0·61	4th	12	0	1	1	2	0	5·13	—	41	—
a Worthing ... ... §	36	65·9	54 0	60·0	+ 2·0	70	30th	47	10,17,21	60·8	59·9	2·94	+0·49	1·69	4th	10	0	0	1	0	0	5·46	—	44	—
a Bognor	20	64·3	53·9	59·1	—	69	30th	45	17th	—	58·1	2·93	—	1·00	4th	11	0	0	2	0	—	5·11	—	41	—
a Selsey Bill	21	65·5	53·5	59·5	—	69	3. 8, 30	43	20th	—	—	3·02	—	1·14	4th	13	0	1	0	2	0	5·36	—	43	—
a Totland Bay	140	64·2	54·2	59·2	+ 1·4	70	27th	46	17th	—	—	3·81	+1·33	1·23	4th	11	0	0	2	3	0	4·87	—	39	—
a Sandown	20	66·5	55·2	60·9	—	74	9th	47	17th	—	—	2·95	—	0·96	4th	10	—	—	—	—	—	5·08	—	41	—
p Bournemouth	145	65·3	52·1	58·7	—	70	9, 11, 30	44	17th	59·4	59·6	2·92	—	0·53	1, 4	11	—	—	—	—	—	5·03	—	40	—
																						4·88	—	39	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

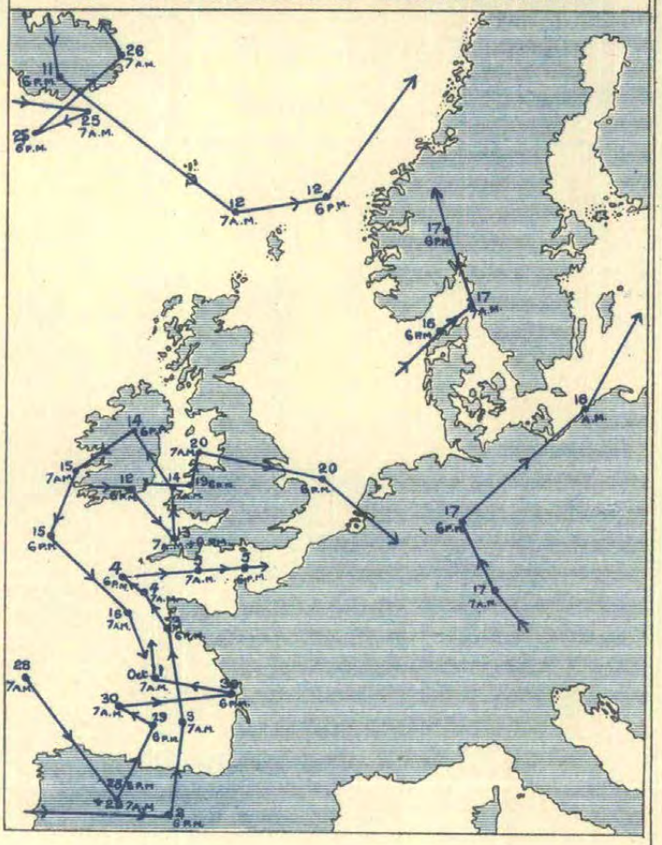
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in September based on 35 years' observations, 1871–1905.



WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT 10 MODERATE 10 STRONG 10 ← 30 Obsns = 1 Inch →

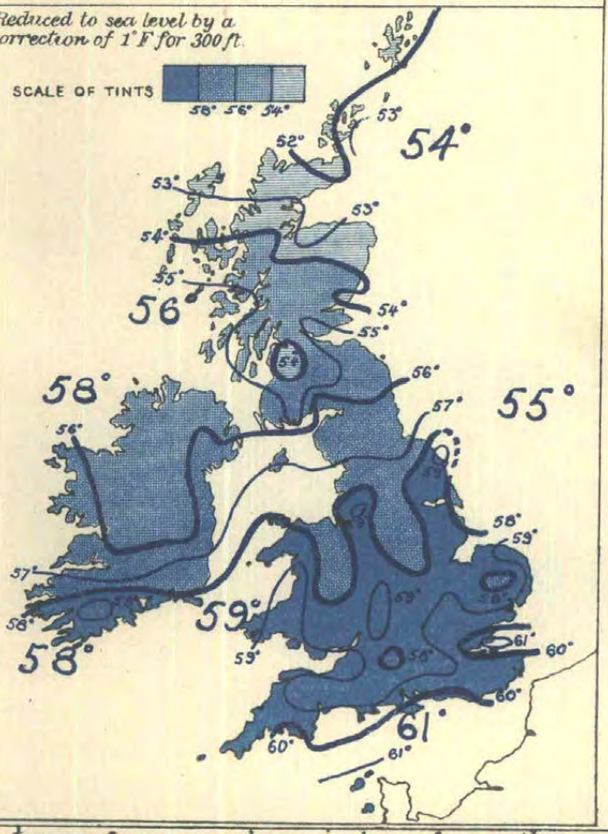
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.

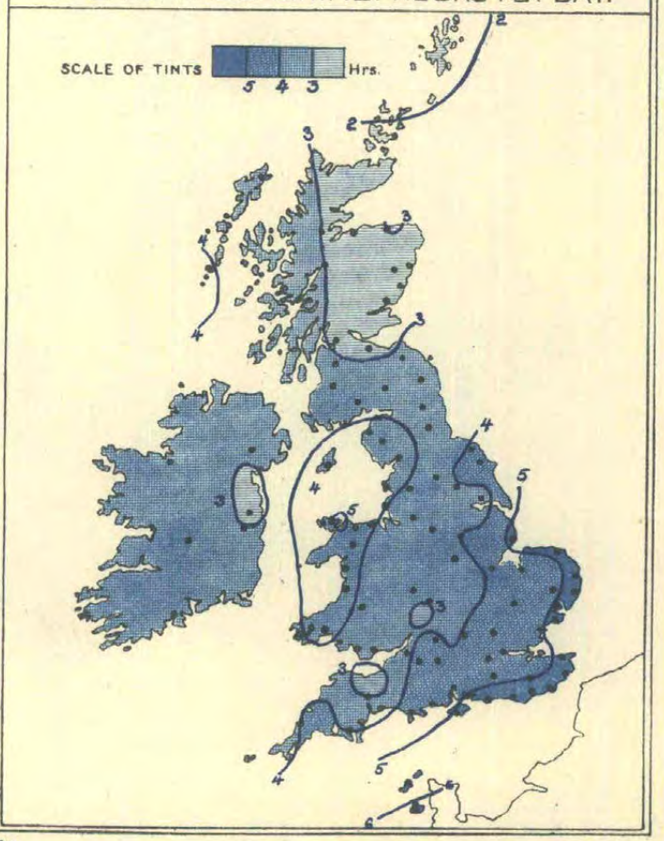
Reduced to sea level by a correction of 1°F for 300 ft.

SCALE OF TINTS 56° 56° 54°



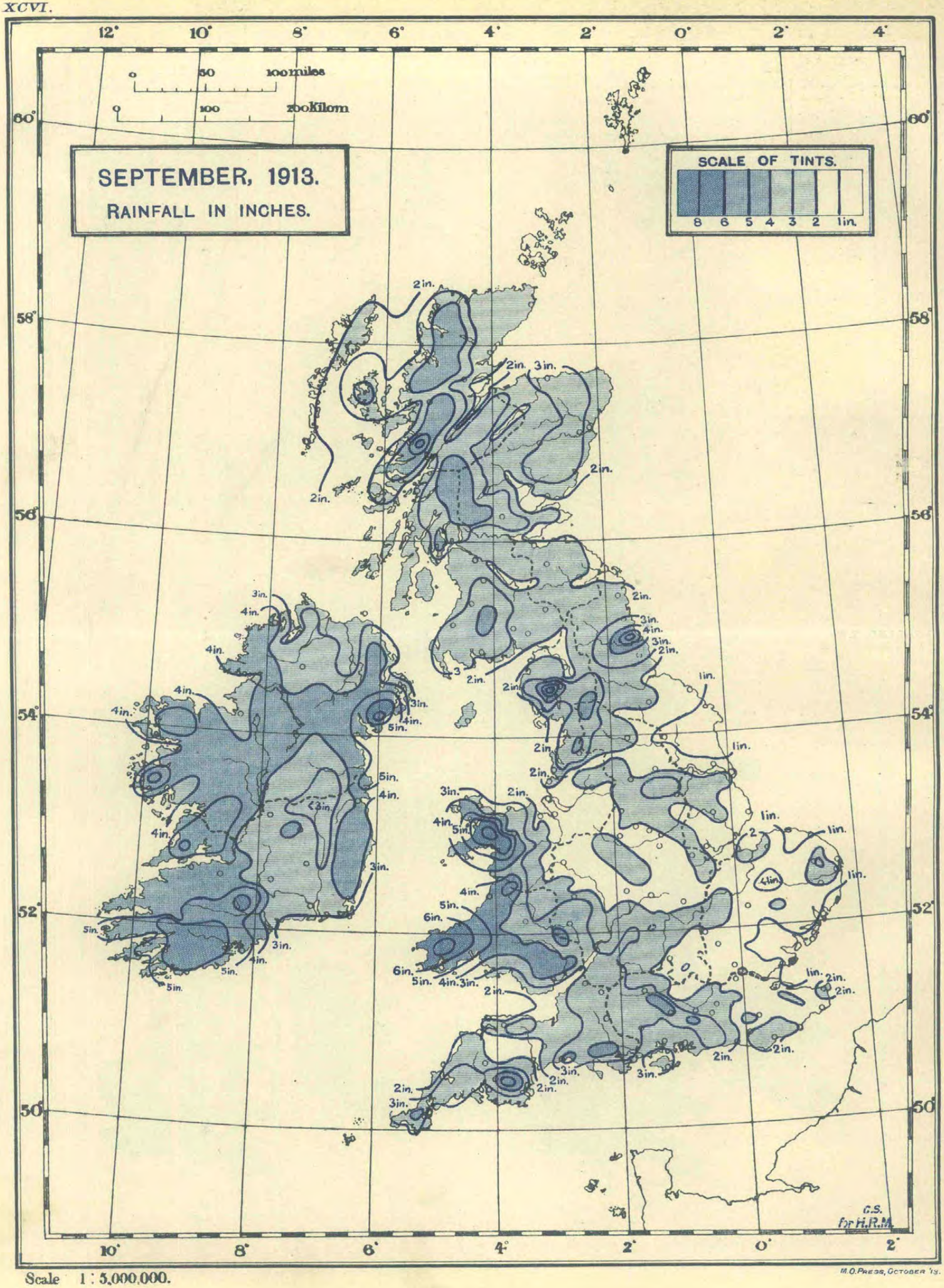
4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS 5 4 3 Hrs.



Sea temperatures are shown in large figures thus 54°

M.O. PRESS, OCTOBER '13.



Scale 1 : 5,000,000.

M.O. Press, October '13.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, SEPTEMBER, 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	66·3	50·4	58·8	—	75	27th	40	16th	—	57·8	1·35	—	0·32	19th	13	0	0	1	2	0	4·00	—	32	—
a Golder's Green	279	66·1	51·3	58·7	—	75	26, 27	41	19th	—	—	1·48	—	0·34	16, 19	10	0	0	0	1	—	—	—	—	—
p Hampstead (Redington Rd.)	375	66·0	51·4	58·7	—	75	26, 27	44	10th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a South Wimbledon	51	—	—	—	—	—	—	—	—	—	—	1·76	—	0·41	5th	10	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	61·8	48·5	55·2	—	70	29, 30	40	7th	—	—	2·01	—	0·82	11th	13	0	0	1	0	0	3·25	—	26	—
a Ardnadam	64	59·8	47·5	53·7	—	65	26th	37	7th	—	—	4·12	—	0·96	23rd	13	0	0	1	1	2	—	—	—	—
a Thorntonhall (Lanarkshire)	440	59·5	44·3	51·9	—	71	28th	32	7th	—	—	2·51	—	0·76	13th	11	0	0	0	4	1	2·58	—	21	—
a Kilmarnock ¶	90	61·8	45·3	53·6	− 0·1	70	28th	31	17th	—	—	2·42	—	0·67	13th	10	0	0	0	0	—	3·34	—	27	—
p Ruthwell §	67	66·1	48·4	57·3	—	75	28th	37	19th	—	—	2·20	—	0·79	13th	6	0	0	0	0	—	3·64	—	29	—
7. ENGLAND, N.W.																									
a Scaleby	111	64·2	47·8	56·0	—	74	28th	37	18th	—	—	2·44	—	0·75	12th	12	0	0	0	1	—	—	—	—	—
a Seathwaite	422	64·2	47·0	55·6	—	71	27, 28	39	3, 7	—	—	4·56	—	1·05	13th	13	0	0	0	0	—	—	—	—	—
a Carnforth	174	64·4	49·1	56·8	—	74	27th	39	8th	—	—	3·67	—	1·38	26th	11	0	0	0	2	0	4·39	—	35	—
a Lancaster	311	64·8	51·1	58·0	—	74	27th	43	17th	58·1	59·9	4·03	—	1·61	26th	12	0	0	0	0	0	3·86	—	31	—
a Hutton	81	64·1	48·8	56·7	—	74	27th	36	8th	57·0	56·0	2·02	—	0·56	26th	12	0	0	0	0	0	4·27	—	34	—
a Burnley	459	63·1	49·2	56·2	—	75	27th	35	8th	55·6	54·8	1·52	—	0·49	25th	12	—	—	—	—	1	4·10	—	33	—
a Leyland	124	64·2	49·7	57·0	—	74	27th	35	8th	—	—	1·91	—	0·45	25th	12	0	0	0	0	1	3·83	—	31	—
Bolton	341	64·4	50·6	57·5	—	76	27th	38	8th	56·6	56·0	2·09	—	0·55	25th	13	0	0	0	0	0	3·64	—	29	—
a Blundellsands	34	64·1	50·7	57·4	—	73	27th	41	16th	—	—	2·28	—	0·58	26th	13	0	0	2	3	0	—	—	—	—
a Hoylake §	30	64·4	48·6	56·5	—	71	24th	40	16th	—	—	2·58	—	0·65	26th	12	0	0	2	0	0	4·22	—	34	—
a Rhyl	30	64·0	51·2	57·6	—	75	27th	39	8, 16, 17	—	—	3·11	+0·51	1·18	12th	12	0	0	0	0	0	4·53	—	36	—
a Colwyn Bay	82	64·3	52·9	58·6	—	75	27th	42	16th	—	—	3·68	—	1·50	12th	11	0	0	0	0	—	4·34	—	35	—
a Llanberis (Pen-y-Gwryd)	913	60·7	48·7	54·7	—	70	27, 28	38	16th	—	—	9·52	—	3·85	12th	14	0	0	0	3	—	—	—	—	—
a Macclesfield	500	64·0	50·1	57·1	—	77	27th	39	10th	—	—	1·30	—	0·28	22nd	12	0	0	0	0	—	—	—	—	—
a Northwich	117	65·5	49·0	57·3	—	76	27th	35	10th	—	—	1·41	—	0·45	25th	14	0	0	0	6	—	—	—	—	—
a Hawarden Bridge ¶	22	65·0	50·6	57·8	+ 1·2	79	27th	38	8th	—	—	1·47	−0·76	0·49	22nd	13	—	—	—	—	—	—	—	—	—
a Ruthin	449	63·1	50·4	56·8	—	72	27th	42	8, 16	—	—	1·54	—	0·49	12th	12	0	0	0	0	—	—	—	—	—
a St. Asaph	479	63·9	50·3	57·1	—	72	27th	43	3, 16	—	—	2·74	—	0·93	12th	14	0	0	0	0	0	—	—	—	—
a Welshpool	255	64·4	49·2	56·8	—	75	27th	36	8th	—	—	1·87	—	0·45	22nd	16	0	0	0	0	—	—	—	—	—
p Aberdovey §	22	64·3	54·0	59·2	—	76	27th	48	16th	—	—	3·96	—	0·79	12th	14	0	0	0	0	—	4·39	—	35	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	64·3	54·0	59·2	—	74	27th	47	8, 16	—	—	3·95	—	0·71	22nd	15	0	0	0	0	—	4·19	—	34	—
a Gwernyfed	374	64·2	47·3	55·8	—	75	27th	37	16th	—	—	2·51	—	0·95	4th	15	0	0	1	7	—	—	—	—	—
a Haverfordwest	93	63·5	51·9	57·7	—	70	27th	42	19th	—	—	7·50	—	2·03	12th	19	0	0	3	6	—	4·26	—	34	—
a Tenby	64	64·6	51·6	58·1	—	69	1, 7	44	21st	—	—	4·40	—	0·92	13th	16	0	0	0	0	0	4·16	−0·91	34	− 7
a Swansea	24	66·0	53·6	59·8	—	71	8, 27	47	20, 21	61·1	60·4	2·71	—	0·73	13th	16	0	0	0	0	0	3·20	—	26	—
a Clifton ¶	229	65·0	52·7	58·9	+ 1·2	78	27th	46	10, 16	—	—	3·74	+0·68	1·20	4th	15	—	—	—	—	0	4·02	—	32	—
a Weston-Super-Mare	29	64·9	52·5	58·7	—	77	27th	45	10, 16	—	—	2·23	—	0·70	4th	12	0	0	0	2	0	3·16	—	25	—
a Minehead	104	64·7	52·5	58·6	—	78	27th	41	16th	—	—	2·27	—	0·70	11th	14	0	0	2	0	0	2·49	—	20	—
a Ilfracombe	24	64·3	55·1	59·7	—	75	27th	49	15th	60·4	60·3	1·53	—	0·46	19th	16	0	0	1	1	0	3·45	—	28	—
a Bude	49	65·7	52·8	59·3	—	76	27th	44	17th	—	—	2·36	—	0·35	4th	16	0	0	1	0	—	3·96	—	32	—
a Arlington ¶	613	63·0	50·2	56·6	+ 1·1	72	27th	42	16th	—	—	2·22	−2·43	0·43	13th	15	0	0	0	0	0	—	—	—	—
a Cullompton ¶§	202	65·7	49·9	57·8	+ 0·7	75	27th	40	15th	59·3	—	1·94	−0·97	0·53	19th	14	0	0	1	6	0	2·90	−1·87	23	−15
a Rousdon	515	62·5	51·6	57·1	+ 1·2	68	9th	46	10, 17, 19	60·1	60·3	3·43	+0·53	1·12	5th	12	0	0	1	4	0	3·91	—	31	—
a Sidmouth	147	64·4	53·1	58·8	—	69	9, 27	46	19th	—	—	2·72	—	0·57	5th	13	0	0	1	1	0	—	—	—	—
a Exmouth	11	64·9	53·8	59·4	—	70	9th	47	17th	—	—	1·99	—	0·51	5th	11	—	—	—	—	—	3·50	—	28	—
a Killerton	160	65·5	48·6	57·1	—	75	27th	36	17th	—	—	2·05	—	0·59	5th	11	0	0	0	1	—	—	—	—	—
a Shaftesbury ¶	722	62·9	50·4	56·7	+ 0·7	72	27th	44	10th	58·3	58·6	3·49	+0·57	1·19	4th	13	—	—	—	—	—	—	—	—	—
a Dorchester	314	63·9	52·0	58·0	—	74	27th	43	19th	—	—	3·97	—	0·61	15th	12	0	1	1	3	—	4·22	—	34	—
a Weymouth	21	65·8	54·7	60·3	—	71	9th	48	10, 17, 19	—	—	3·03	—	1·10	5th	9	0	0	0	0	—	4·77	—	38	—
a Torquay	12	64·9	54·7	59·8	—	71	9, 11	49	17, 19, 22	—	—	2·50	—	0·77	5th	13	0	0	0	0	0	3·70	−1·67	30	−13
p Paignton	11	64·7	52·8	58·8	—	73	11th	44	15th	—	—	2·57	—	1·04	16th	14	0	1	0	2	0	3·55	—	29	—
a Salcombe	39	64·4	54·0	59·2	—	70	27th	47	11, 19	—	—	2·33	—	0·83	3rd	12	0	0	1	2	—	4·30	—	35	—
a Tavistock	374	64·7	51·8	58·3	—	76	27th	42	20, 22	—	—	3·06	—	1·01	5th	13	0	0	3	1	0	—	—	—	—
a Ashburton	583	64·1	52·3	58·2	—	72	11th	46	14, 15	—	—	4·87	+0·90	1·44	5th	16	0	0	2	1	—	—	—	—	—
a Fowey	51	65·6	53·0	59·3	—	71	8, 11	46	17th	—	—	3·39	—	1·16	3rd	15	0	0	2	3	—	4·17	—	34	—
a Redruth	397	62·6	52·8	57·7	—	68	24th	46	15th	—	—	4·29	—	0·81	5th	18	0	1	3	5	—	—	—	—	—
a Penzance	54	65·2	55·7	60·5	—	71	11th	48	15th	—	—	2·79	—	0·73	3rd	17	0	0	1	4	—	3·73	—	30	—
9. IRELAND, N.																									
p Dunfanaghy	54	60·6	50·1	55·4	—	68	24th	43	13th	—	—	4·21	—	0·92	13th	15	0	0	0	3	—	—	—	—	—
a Lisburn	207	63·1	48·7	55·9	—	69	29th	34	17th	—	—	5·34	—	2·14	13th	13	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	62·8	48·7	55·8	+ 1·1	73	11th	38	17th	—	—	4·58	+2·25	1·65	19th	11	0	0	0	1	3	—	—	—	—
a Kingstown	42	63·0	52·8	57·9	—	72	12th	45	8th	—	—	4·14	—	1·37	19th	11	—	—	—	—	—	3·32	—	27	—
p Clongowes Wood Col.	245	62·6	46·2	54·4	—	71	11th	32	10, 17	—	—	2·58	—	0·44	13th	19	0	0	0	4	—	3·21	—	26	—
a Mountmellick	239	63·6	48·7	56·2	—	70	11th	35	18th	—	—	3·87	—	1·05	19th	17	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	62·1	50·4	56·3	—	72	11th	42	16th	—	—	4·01	—	0·95	12th	14	0	0	0	0	—	—	—	—	—
a Kilkenny ¶	195	63·7	49·8	56·8	+ 1·6	71	11th	38	18th	—	—	3·28	+0·61	0·77	12th	19	0	0	0	0	—	—	—	—	—
a Cahir ¶	199	64·1	50·0	57·1	+ 2·1	71	11th	36	18th	—	—	3·90	—	0·78	18th	18	0	0	0	7	—	—	—	—	—
a Wexford	99	63·1	52·4	57·8	—	72	11th	45	14, 17, 20	—	—	3·82	—	0·90	22nd	16	0	0	0	0	—	—	—	—	—
a Waterford ¶	100	64·1	50·6	57·4	+ 1·9	71	11th	44	7, 17, 21	—	—	3·30	+0·12	0·92	22nd	14	0	0	0	1	—	—	—	—	—
p Waterford Trg. Coll.	20	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Foynes ¶	108	62·2	50·3	56·3	+ 0·9	71	29th	42	16th	—	—	2·68	−0·31	0·70	25th	21	0	0	0	2	—	—	—	—	—
a Killarney ¶	174	66·1	51·0	58·6	+ 2·5	73	28, 29	38	18th	—	—	4·79	+0·91	1·35	14th	19	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	64·3	51·4	57·9	—	72	11, 12	40	18th	—	—	5·21	—	1·27	15th	16	0	0	1	1	—	3·72	—	27	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	67·5	55·1	61·3	+ 1·8	77	27th	49	15, 16	—	—	1·46	−1·71	0·35	13, 15	14	0	0	0	0	—	5·97	+0·10	48	+ 1

DISTRICT VALUES—SEPTEMBER, 1913.

Districts.	Air Temperature.						Earth Temperature.				Rainfall.			Sunshine.				Cloud. Mean Amount (0–10).			Pressure at M.S.L.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Difference from Average.	At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Total.	Difference from Average.	No. of Days.	Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	72	27	58·5	47·0	52·4	+0·7	53·5	+0·1	—	—	2·30	−2·26	15	2·80	−0·55	22	− 5	7·7	7·2	6·7	30·56	6th	29·25	12th
Eastern.																								
1. SCOTLAND, EAST ...	74	28	59·6	46·1	52·6	+0·3	54·6	+0·8	53·9	+0·4	2·64	+0·27	14	2·61	−1·35	21	−11	8·1	7·0	7·5	30·55	6th	29·23	14th
2. ENGLAND, N.E. ...	82	35	63·5	50·2	56·6	+2·3	56·6	+1·3	56·1	+0·8	2·20	+0·24	14	4·22	−0·23	34	− 2	7·2	—	6·6	30·51	6, 7	29·25	14th
3. ENGLAND, EAST ...	76	35	65·3	52·0	58·3	+2·4	59·3	+0·9	59·0	+0·2	1·38	−0·60	12	4·75	−0·23	38	− 2	7·0	6·2	4·8	30·38	3rd	29·33	14th
4. MIDLAND COUNTIES	79	29	64·8	49·7	56·9	+2·1	56·9	+1·1	56·3	+0·2	2·19	+0·13	14	3·84	−0·55	31	− 4	7·1	6·1	5·7	30·43	7th	29·26	14th
5. ENGLAND, S.E. ...	77	36	65·3	52·4	58·6	+1·4	59·0	+0·4	58·6	+0·2	2·51	+0·23	12	4·83	−0·28	39	− 2	6·1	5·9	4·2	30·29	8th	29·37	14th
Western.																								
6. SCOTLAND, WEST ...	75	31	61·4	47·5	54·2	+1·0	55·6	—	55·9	+0·6	2·79	−1·32	11	3·47	−0·70	28	− 5	7·1	7·6	6·1	30·56	7th	29·20	14th
7. ENGLAND, N.W. ...	79	32	63·8	50·5	56·9	+2·0	56·9	+1·5	56·5	+0·5	2·58	−0·42	13	4·29	+0·03	34	0	6·3	6·4	5·6	30·46	7th	29·10	14th
8. ENGLAND, S.W. ...	78	36	63·8	52·1	57·7	+1·5	59·5	+0·8	59·1	+0·7	3·23	+0·11	14	3·71	−1·10	30	− 9	7·2	7·1	5·7	30·43	7th	29·19	14th
9. IRELAND, NORTH ...	71	33	62·1	48·9	55·2	+1·3	57·0	+0·1	56·5	0·0	3·49	+0·28	17	3·28	−0·48	26	− 4	7·3	6·5	6·6	30·51	7th	29·09	14th
10. IRELAND, SOUTH ...	73	32	63·4	50·7	56·8	+1·6	58·2	+1·2	57·7	+0·8	4·09	+1·20	19	3·49	−0·95	28	− 8	7·7	7·1	7·3	30·47	10th	29·07	14th
11. ENGLISH CHANNEL ...	77	47	66·1	55·0	60·4	+1·4	61·8	+0·6	61·4	+0·2	2·03	−0·56	14	5·48	−0·54	44	− 5	6·5	6·0	5·4	30·37	10th	29·27	13th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Broadstairs ...	5·69	—	46	—
Littlestone§ ...	5·16	—	42	—
Hove	5·51	—	44	—
Westbourne ...	5·26	—	42	—
LONDON.	hr.		%	
Bunhill Row ...	3·51	−0·26	28	− 2
Plumstead ...	4·20	—	34	—
8. ENGLAND, S.W.				
Port Talbot ...	2·31	—	27	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	2·50	—	0·85	14th	10
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	3·49	—	1·46	4th	12
Forest of Dean (900 ft.)	3·08	—	0·96	4th	15

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew, Stonyhurst and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 2, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, October 23, 1913.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. X. OCTOBER, 1913. [*Price 6d.*

MILD. WET IN THE PLAINS. TORNADO IN S. WALES.

Pressure, Winds and Weather.—The distribution of atmospheric pressure over the region embraced by the observations was of a very changeable character practically throughout the month of October. At the close of September an Easterly type had set in, and this was maintained during the first nine days of October An anti-cyclone of no great intensity, the barometer passing a little above 30·3 in. in Shetland on the 1st, stretched from about Iceland down to southern Scandinavia, and on its southern margin depressions moved along very irregular paths, most of them being small secondary irregularities, which, however, exercised considerable influence on the weather. A disturbance which was on the Bay of Biscay for some days at the end of September passed up to the mouth of the English Channel, where it dispersed on the morning of October 3rd. On the evening of the same day a new depression was approaching the western coasts from the upper part of the Atlantic. At first it moved along a south-easterly course; its centre arrived near Scilly on the evening of the 4th, and it remained near the same locality until the evening of the 7th, the barometer descending to 29·13 in. at Scilly and Newquay. The system then bore away on an east north-easterly course across southern England to the Baltic and Russia. With its departure the situation underwent a change to a Southerly type, the northern anticyclone spreading down across the North Sea region to Central and southern Europe, thus keeping in check disturbances which were out on the upper part of the Atlantic. These were very deep, the barometer at one time standing as low as 28·65 in. at some distance out on the ocean, while in Eastern Germany it mounted to 30¾ in. At the home stations the highest pressure during the month was attained on the 13th, 30·49 in. at South Kensington, and 30·50 in. at Clacton. On the 14th the principal depression disappeared to the north-eastward, between the Faröe and Iceland, and the type was temporarily interrupted on the 15th by the advance of an anticyclone from the Atlantic across our southern districts, which became merged in the Continental high pressure on the following day. The Southerly type was then resumed, and from the 17th to the 22nd the British Isles were situated between high pressure to the east and south-east, and low pressure to the west and north-west or north, the depressions moving along north-easterly paths. These were not nearly so deep as the previous ones, but the barometer fell to 29 in. at Stornoway on the 21st, when the centre of one of the systems passed up immediately off the Hebrides. Another brief interruption occurred from the 23rd to the 25th, an Atlantic anticyclone moving in to join the Continental system. Depressions in the Iceland region produced a Westerly type over our northern districts, and depressions about the Bay and the Spanish Peninsula provided an Easterly type over the southern districts. By the 26th the Southerly type was re-established, and it held for nearly a fortnight. A depression of moderate depth, which came from the neighbourhood of Madeira, passed up outside our western and north-western coasts on the 26th and 27th, when another, and a deeper one was advancing from the Western Atlantic, along the 50th parallel, with the barometer at about 28¾ in. On the morning of the 29th its centre was to the westward of Scilly. The course was then suddenly changed to the north north-west, and at the close of the month it was off the south-east of Iceland. When crossing the south-west of Ireland on the 29th, the barometer fell to 28·79 in. at Birr Castle and 28·77 in. at Valencia, the lowest readings during the month.

The mean pressure results are in accordance with the great preponderance of Southerly types. Over South-Eastern Europe the values average about 30·2 in., thence they diminish westward and northward, to 29·88 in. along the south-east coast of England, and below 29·7 in. in the west of Ireland, the Faröe and the south of Iceland. For Shetland the value is 0·02 in. in excess of the normal, while for the rest of the Kingdom all the values are deficient, to the extent of 0·18 in. at Blacksod, and 0·21 in. at Valencia. While the normal gradient is 0·189 in. for Westerly winds between Shetland and Jersey, the gradient for the period now under notice was 0·189 in. for Southerly winds between Blacksod and Yarmouth.

Though the conditions were very frequently unsettled, the various disturbances produced no gales of any great severity. There were only a few days on which one or more of the telegraphic reporting stations did not exceed the force of a strong breeze, but on nearly all other days the extremes experienced were a high wind or a gale (forces 7 and 8). An extensive cyclonic system centred near the 25th meridian caused a strong South-Easterly gale (force 9) at St. Ann's Head, Roche's Point and Malin Head on the 10th, and depressions near the north of Scotland brought a strong Southerly gale to Lerwick on the 20th and 21st. Anemometrical records disclose few instances of gusts at the rate of 50 miles an hour, the highest being 60 miles at Pendennis Castle on the 29th, 56 miles at Pendennis Castle on the 28th, and at Plymouth on the 29th. A tornado, which appeared over the eastern valleys of Glamorgan, on the evening of the 27th, developed great energy, and occasioned some loss of life and much destruction of property. A special report upon it is in course of preparation.

Thunderstorms, however, were unusually frequent and widely distributed over England, while Ireland and Scotland were seldom affected. These visitations were numerous during the first eight days, and again from the 27th to the 29th, in many instances accompanied by more or less heavy falls of hail, very violent at Cullompton on the 27th (the day of the whirlwinds in Glamorgan and Shropshire). Heavy rainstorms were numerous, with and without thunderstorms, the low level regions being affected more than the mountainous districts. On the 1st Southend registered 0·4 in. in about 10 minutes; next day Oxford had 0·3 in. in 5½ minutes, and New Malden 1·2 in. of rain and hail in 24 minutes; and on the 3rd Norwich 0·85 in. in about 13 minutes, 1¼ in. in half an hour. On the 4th records ranged up to 1·3 in. at Whitby, 1·7 in. at Caragh Lake, and 2·1 in. at Killarney. Over the inland districts of England there was a tremendous downpour on the 5th, up to 1¾ in. at Welshpool, Wistanstow and Little Massingham, 2·2 in. at Fulbeck, 2·6 in. at Rauceby and Rugeley, 2·8 in. at Claypole, 2·9 in. at Temple Bruer, and 3·1 in. at Boston. This was followed, next day, by heavy falls over the southern counties, the amounts ranging up to 2 in. at Dorchester. The 7th found the heaviest falls in the north of England, 1·5 in. at Durham, 1·6 in. at Ushaw. The falls of the 13th were heaviest in Ireland and Western Scotland, 1·6 in. at Blacksod and Fort William; while those of the 14th were in the mountains of Cumberland and North Wales, 2 in. at Seathwaite, 2·1 in. at Copper Mill, Snowdon. There was a very heavy local downpour in Western Scotland on the 24th, 1·6 in. at Fort William, 2·7 in. at Glencarron. A rainstorm over the south-east quarter of England on the 26th was remarkable for the unusual uniformity of the amounts measured, about fifty stations returning from 0·7 in. to 1·0 in., Matfield, Southend and Heathfield less than 1¼ in. Each of the remaining days had some heavy falls, the largest 1·9 in. at Copper Mill, on the 29th. There were a few references to snow in the course of the month.

Mildness formed a very striking feature of the month. At Eastbourne and Portsmouth the temperature was more than 5°, and at Westminster 6° above the normal. There was no cold weather with the exception of the 23rd and the following night, with maximum temperatures below 45° in many localities, 41° at Eskdalemuir and West Linton, and 40° at Bellingham and numerous minima below 30°, as low as 23° at Clongowes Wood, and 20° at Eskdalemuir. The day values were frequently above 60°, in many cases above 65°, as high as 70° at Chelmsford and Camden Square (Glaisher screen) on the 2nd, while numerous night minima were above 55°, up to 59° on various occasions at Dungeness, Walton-on-the-Naze, Felixstowe and Killarney. Many observers comment on the open character of the month: Isleworth—"A beautiful autumn month; in some respects the finest October during the "33 years of my personal records." Oundle—"A remarkably genial month. "Lilac and other spring flowers in bloom, and second crops of plums, rasp-"berries, &c., gathered." Dyce (Aberdeen)—"Sweet peas, roses, dahlias and "herbaceous border flowers generally quite fresh and good." Several of the observers remark that the days were generally fine to sunny, most of the rain experienced falling during the night hours.

Three waterspouts were reported at Claypole during the heavy rainstorm of the 5th. At Rousdon a waterspout on the 7th; several waterspouts on the 8th.

On all coasts the temperature of the sea water was decreasing, being now 3° or 4° colder than during September in many localities, but with a few unimportant exceptions it was warmer than the air on shore, by from 2° to 4° in most districts.

Fog was experienced over a wide area of the inland districts on several days, mainly about the 23rd to the 26th. Along the western and eastern coasts it was reported rather frequently, but rarely on the south coast.

Rainfall.—The distribution of precipitation was very irregular, ranging from 221 per cent. of the normal at Rauceby, 214 at Boston, and 202 at Shoeburyness to 34 at Arncliffe, 33 at Bendamph and Strathpeffer, 32 at Dunrobin, and 25 per cent. at Gordon Castle. From 20·1 in. at Loch Quoich, 10·3 in. at Caragh Lake, and 10·1 in. at Glencarron the quantities ranged down to less than 1½ in. in several places, an inch at Dunrobin, Fortrose, Fyvie and Strathpeffer, and 0·9 in. at Gordon Castle. The frequency was as high as 30 days at Roche's Point, and 28 at Baltasound, while a number of stations had only 11 or 12 days.

Bright Sunshine.—Generally the duration of insolation was above the normal, Guernsey returning 145 per cent., Fort William 128, Glasgow 126, and Westminster 125 per cent. Those below the normal ranged down to 79 per cent. at Cirencester, 78 at Stonyhurst, and 74 at Southampton.

(32645—24.) Wt. 196—786. 1475. 11/13. D & S. G. 30. Sch. 14.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of A. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands: *a* Castlebay ...	7, 1, 9	48	9·665	−·089	9·728	54·3	47·5	50·9	+4·5	60	1st	34	23rd	—	—	50·8	52·6	51·5	1·9	2·7	2·3	·324	·326	·321	87	81	84
p Deerness ... §	9, −, 9	163	9·593	—	9·763	52·8	46·5	49·7	+3·3	59	17th	32	23rd	—	—	49·9	—	49·0	1·9	—	1·8	·316	—	·310	87	—	88
a Lerwick ... ¶§	7, 1, 9	59	9·713	+·018	9·776	52·3	44·8	48·6	+2·9	59	17th	31	23rd	—	—	48·2	50·7	49·2	2·2	3·3	2·9	·283	·288	·281	85	78	80
a Stornoway ... ¶§	7, 1, 9	52	9·697	−·044	9·744	54·0	43·9	49·0	+3·3	60	1st	33	23rd	—	—	47·5	51·8	48·5	1·0	1·8	1·6	·304	·338	·302	93	87	88
Mainland: *a* Wick ... ¶	7, 1, 9	94	9·667	−·017	9·772	53·7	44·9	49·3	+3·1	60	17, 18	32	23, 24	—	—	49·0	52·2	50·2	0·9	1·3	0·8	·325	·355	·343	94	91	95
p Strathpeffer ¶§	9, −, 9	210	9·541	—	9·762	56·8	42·7	49·8	+4·6	68	1st	32	23rd	—	—	48·4	—	48·1	1·9	—	2·2	·293	—	·282	87	—	84
a Glencarron § ¶	9, −, 9	504	9·216	—	9·756	54·1	42·4	48·3	+3·1	64	13th	31	23rd	—	—	49·2	—	48·0	3·1	—	2·7	·276	—	·270	79	—	81
p Ft. Augustus § ¶§	9, −, 9	73	9·698	—	9·772	54·7	44·5	49·6	+3·0	63	17, 19	30	10, 23	—	—	49·8	—	49·1	2·2	—	1·5	·302	—	·311	85	—	89
p Ft. William § ¶	9, −, 9	38	9·738	—	9·773	55·2	43·6	49·4	+2·0	61	1, 14, 19	32	23rd	—	—	49·0	—	48·7	2·7	—	2·2	·288	—	·296	82	—	84
p Kingussie ... §	9, −, 9	828	8·904	—	9·797	53·4	39·8	46·6	—	63	17th	28	7, 9	—	—	47·3	—	46·1	3·0	—	2·0	·257	—	·266	79	—	86
p Dunrobin ... §	9, −, 9	16	9·754	—	9·765	54·3	44·4	49·4	+2·7	62	17th	32	23rd	50·9	—	50·1	—	49·6	1·9	—	1·9	·313	—	·308	86	—	87
1. SCOTLAND, E.																											
a Nairn ... ¶§	7, 1, 6	82	9·679	−·034	9·772	54·8	40·6	47·7	+1·7	64	13, 17	30	23, 24	—	—	46·5	53·8	49·8	2·1	4·9	3·1	·268	·289	·282	85	70	80
p Gordon Castle § ¶	9, −, 9	107	9·677	—	9·789	57·7	41·9	49·8	+3·0	66	17th	31	23rd	—	—	50·4	—	48·6	2·8	—	2·2	·296	—	·290	82	—	85
Aberdeen ... ¶§	9, 3, 9	88	9·721	−·018	9·816	54·0	45·8	49·9	+3·0	62	17th	33	23rd	—	51·1	50·2	52·9	50·0	3·1	4·1	2·8	·293	·303	·299	79	74	82
			9·723	−·014	9·820			50·3	+3·7																		
a Balmoral ... § ¶	9, 3, −	927	8·795	—	9·797	55·3	39·9	47·6	—	63	16, 18	28	16, 23	—	—	44·9	54·9	—	1·7	—	—	·259	—	—	88	—	—
p Braemar ... §	9, −, 9	1114	8·625	—	9·815	51·4	39·6	45·5	+2·4	60	1st	27	23rd	—	—	46·4	—	45·0	2·6	—	1·7	·257	—	·260	83	—	87
p Dundee ... §	9, −, 9	164	9·658	—	9·830	55·4	44·6	50·0	+3·5	63	19th	35	9, 23, 24	—	—	49·3	—	48·2	1·7	—	1·3	·308	—	·305	88	—	91
p Crieff ... § ¶	9, −, 9	436	9·356	—	9·829	54·4	43·5	49·0	+2·6	60	15, 19	33	24th	—	—	48·6	—	48·4	2·2	—	2·3	·290	—	·283	85	—	84
a Leith ... ¶	7, −, 6	37	9·764	−·039	9·804	56·3	45·8	51·1	+2·9	64	13th	35	24th	—	—	49·7	—	52·5	2·7	—	3·7	·290	—	·300	82	—	76
p West Linton § ¶	9, 3, 9	805	8·958	—	9·828	53·4	40·6	47·0	+1·7	62	19th	25	24th	—	—	48·3	—	45·8	2·2	—	1·1	·284	—	·284	85	—	93
p Marchmont § ¶§	9, −, 9	500	9·301	—	9·836	54·6	42·6	48·6	+2·8	65	19th	29	24th	49·2	—	48·9	—	47·3	2·2	—	1·8	·294	—	·283	85	—	88
2. ENGLAND, N.E.																											
North: *p* Whitby	9, −, 9	158	9·674	—	9·836	58·2	45·5	51·9	+2·6	65	12, 25	31	24th	—	—	52·6	—	50·0	2·3	—	1·2	·340	—	·335	85	—	91
p Cockle Park §	9, −, 9	331	9·497	—	9·848	54·6	43·3	49·0	—	62	17th	30	24th	48·4	51·3	49·6	—	48·4	2·1	—	1·5	·307	—	·308	85	—	90
a Shields ... ¶	7, −, 6	117	9·726	−·015	9·845	55·9	46·2	51·1	+3·2	62	17th	32	24th	—	—	49·2	—	52·0	2·1	—	3·2	·298	—	·305	86	—	79
p Durham ... ¶§	9, −, 9	352	9·473	—	9·847	54·7	43·6	49·2	+2·2	61	17th	28	24th	—	—	49·4	—	48·6	1·8	—	1·3	·314	—	·314	88	—	90
p Rounton ...	9, −, 9	245	9·574	—	9·831	56·3	44·2	50·3	+3·6	61	18, 29	29	24th	51·5	—	49·8	—	49·2	1·9	—	1·3	·310	—	·318	87	—	91
p Scarborough ¶§	9, −, 9	127	9·732	—	9·853	56·2	47·1	51·7	+3·1	62	17, 20	34	24th	—	*55·5	52·0	—	51·2	1·9	—	2·0	·338	—	·328	86	—	86
p York ... ¶§	9, −, 9	53	9·814	—	9·862	57·4	45·2	51·3	+3·3	63	1, 17, 20	31	24th	52·6	54·4	50·3	—	50·5	2·2	—	1·8	·309	—	·322	85	—	88
South: *a* Spurn Head ¶	7, 1, 6	28	9·822	−·025	9·851	57·7	47·2	52·5	+2·8	63	5, 20	40	24th	—	—	51·8	55·8	54·0	1·1	2·3	1·5	·356	·381	·374	92	85	90
a Lincoln ... ¶	9, −, −	42	9·843	—	9·879	57·8	45·7	51·8	+3·6	66	1st	32	24, 25	51·5	55·1	50·5	—	—	1·4	—	—	·338	—	—	90	—	—
a Skegness ... §	9, −, −	16	9·870	—	9·879	57·3	46·2	51·8	—	63	1st	30	25th	—	—	52·5	—	—	1·6	—	—	·351	—	—	89	—	—
p Hull	9, −, 9	12	9·867	—	9·871	58·0	45·6	51·8	+3·7	65	2, 6	30	10th	50·5	54·0	52·2	—	51·5	2·3	—	1·8	·331	—	·334	84	—	88
3. ENGLAND, E.																											
North: *p* Lowestoft	9, 3, 9	77	9·818	—	9·899	59·3	48·7	54·0	+3·9	64	2, 3	38	24th	54·0	56·3	56·1	56·5	52·6	2·5	2·6	1·2	·382	·386	·368	85	84	92
p Cromer ... ¶§	9, −, 9	139	9·738	—	9·879	59·0	48·5	53·8	—	66	4th	40	24th	—	—	52·1	—	51·4	1·4	—	0·4	·352	—	·369	90	—	97
p Lit. Massingham ¶§	9, 3, 9	280	—	—	—	57·8	45·8	51·8	+3·2	65	2nd	34	24th	—	—	51·3	55·7	49·6	1·0	2·3	0·7	·352	·379	·337	93	85	95
a Yarmouth ... ¶	7, 1, 9	27	9·863	−·013	9·884	58·9	48·6	53·8	+4·2	64	3rd	39	24, 25	54·5	56·2	51·1	57·5	53·7	0·9	2·9	1·6	·352	·389	·367	93	82	89
p Geldeston ... ¶§	9, −, 9	47	9·854	—	9·895	60·2	45·7	53·0	+3·6	65	4th	29	25th	—	—	51·9	—	50·9	1·1	—	0·7	·357	—	·355	93	—	95
South: *p* Cambridge... ¶§	9, −, 9	43	9·825	—	9·864	60·2	45·2	52·7	+3·8	67	2nd	29	25th	53·5	56·2	51·5	—	50·7	1·1	—	0·8	·358	—	·356	93	—	95
a Clacton ... ¶§	7, 1, 9	54	9·825	−·034	9·881	59·3	49·7	54·5	+3·5	65	2, 3	37	24, 25	55·2	54·0	52·7	58·2	54·9	1·3	3·3	1·9	·362	·387	·376	91	80	88
p Woburn	9, −, 9	294	9·575	—	9·888	58·7	43·8	51·3	—	65	1st	26	24th	—	—	51·2	—	49·8	1·3	—	1·0	·347	—	·337	91	—	94
p Bennington ...	9, 3, 9	411	—	—	—	59·4	45·8	52·6	+3·9	67	2nd	31	25th	53·9	55·8	51·6	56·6	50·8	1·1	3·1	0·8	·357	·370	·351	93	81	95
p Berkhamsted ...	9, −, 9	397	9·460	—	9·882	59·5	44·5	52·0	+3·6	68	1st	30	24th	54·1	—	50·8	—	49·7	1·1	—	0·8	·347	—	·339	92	—	94
4. MIDLAND COUNTIES.																											
a Garforth	9, −, 9	198	—	—	—	56·0	41·6	48·8	—	63	1, 17	26	23, 24	50·7	52·3	49·5	—	47·9	1·8	—	1·1	·322	—	·318	89	—	92
p Huddersfield ...	9, 3, 9	411	9·397	—	9·841	56·3	45·6	51·0	—	64	19th	36	23rd	50·4	53·2	49·5	54·2	49·8	1·6	3·4	1·5	·317	·334	·325	89	79	90
p Sheffield ... §	9, −, 9	450	9·378	—	9·856	56·4	46·8	51·6	+2·8	63	1st	37	24th	51·6	53·2	51·1	—	50·6	2·0	—	1·5	·327	—	·333	86	—	89
a Worksop	9, −, 9	67	9·795	—	9·858	58·2	44·2	51·2	+3·2	66	1st	30	25th	51·9	53·6	50·4	55·9	—	1·4	3·4	—	·330	·354	—	90	79	—
East: *p* Buxton	9, 3, 9	997	8·789	—	9·862	54·5	43·1	48·8	+3·6	63	13th	30	25th	51·1	53·0	48·9	52·1	47·7	1·4	1·9	1·6	·312	·339	·292	91	86	89
p Belvoir Castle ...	9, −, 9	276	9·585	—	9·876	57·7	44·6	51·2	+3·2	65	1st	29	24th	53·1	53·9	49·4	—	49·6	1·4	—	1·0	·317	—	·330	90	—	93
a Coventry	9, −, −	309	9·542	—	9·870	57·7	45·7	51·7	+3·0	66	1st	30	24th	53·0	55·2	51·1	—	—	1·8	—	—	·330	—	—	87	—	—
a Thrapston	9, 3, −	251	—	—	—	58·5	44·6	51·6	—	67	1st	28	25th	—	—	50·6	56·5	—	1·2	3·2	—	·338	·366	—	92	80	—
a Nottingham ¶§	7, 1, 9	85	9·772	−·051	9·864	57·6	44·5	51·1	+2·8	65	1st	30	24th	51·2	54·7	47·4	56·2	50·1	0·5	3·2	0·7	·316	·362	·344	96	80	95
p Birmingham ¶§	9, −, 9	542	9·273	—	9·852	56·6	46·6	51·6	+3·4	64	1st	35	25th	51·0	52·6	48·3	—	51·0	1·3	—	2·0	·312	—	·326	91	—	86
a Oxford ... ¶§	8, −, 8	212	—	—	—	59·1	47·3	53·2	+4·3	67	1st	32	25th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			9·637	−·059	—			52·5											2·0			·341			87		
West: *a* Bath ... ¶§	7, −, 6	84	9·756	−·075	9·851	60·9	45·4	53·2	+4·5	66	2, 12, 19	35	17, 25	55·4	57·5	49·4	—	54·2	1·2	—	2·3	·322	—	·355	91	—	84
p Shrewsbury ¶	9, −, 9	212	9·614	—	9·834	57·8	43·7	50·8	+1·5	66	1st	24	25th	—	—	51·0	—	49·6	1·6	—	0·9	·340	—	·339	89	—	94
p Wistanstow ...	9, −, 9	484	9·310	—	9·824	57·4	44·9	51·2	—	64	1st	32	25th	—	—	50·5	—	49·0	1·2	—	0·2	·336	—	·343	91	—	99
p Bromyard	9, −, 9	400	9·404	—	9·829	57·2	44·2	50·7	—	64	19th	29	25th	52·4	54·7	51·1	—	48·5	1·4	—	0·9	·342	—	·328	90	—	94
p Cheltenham ...	9, −, 9	206	9·641	—	9·854	58·9	46·9	52·9	+4·8	66	2nd	38	23rd	—	—	53·7	—	50·5	1·8	—	1·0	·362	—	·342	88	—	93
5. ENGLAND, S.E.																											
p Reading	9, −, 9	264	9·581	—	9·857	59·5	45·3	52·4	—	67	2nd	32	23rd	—	—	50·3	—	51·2	0·6	—	0·7	·350	—	·358	96	—	96
p Salisbury(Wilton) ¶	9, −, 9	186	—	—	—	60·5	44·6	52·6	+3·8	66	12, 13	33	25th	54·8	—	52·5	—	49·8	1·1	—	0·9	·365	—	·335	92	—	93
a Grayshott	9, 2, −	659	9·167	—	9·877	58·2	47·2	52·7	—	64	1st	38	24th	53·1	—	51·8	56·6	—	1·1	3·4	—	·356	·362	—	92	78	—
a Midhurst	9, 2, −	453	9·340	—	9·870	59·0	48·2	53·6	—	64	3rd	39	24th	—	—	53·2	57·2	—	1·6	3·8	—	·360	·360	—	90	77	—
a Brighton	9, −, −	48	—	—	—	60·5	51·5	56·0	+4·4	66	3rd	40	24th	—	58·3	—	—	—	—	—	—	—	—	—	—	—	—
a Portsmouth ...	9, −, −	18	9·866	—	9·878	61·6	51·2	56·4	+5·1	67	3rd	38	24th	55·9	57·6	56·3	—	—	2·2	—	—	·390	—	—	86	—	—
p Eastbourne §	9, −, 9	36	9·849	—	9·889	61·1	50·2	55·7	+5·3	66	3rd	40	24th	56·8	58·2	56·7	—	54·9	2·5	—	1·9	·390	—	·381	85	—	88
a Dover	7, −, 6	234	9·627	−·052	9·882	59·3	48·7	54·0	—	64	1, 3, 12	39	22nd	55·0	55·7	52·5	—	54·8	1·0	—	1·2	·368	—	·396	93	—	92
a Dungeness... ¶	7, 1, 6	21	9·858	−·038	9·883	60·3	50·5	55·4	+4·0	65	1, 3, 4	40	24th	—	—	55·0	59·1	57·0	1·6	2·5	2·0	·386	·422	·405	89	85	87
p Hastings ... ¶	9, −, 9	174	9·708	—	9·884	60·6	50·8	55·7	+4·6	67	3rd	40	24th	55·8	57·4	56·4	—	54·3	2·7	—	1·9	·377	—	·368	83	—	87
p Southampton ¶§	9, −, 9	84	9·780	—	9·861	60·3	48·9	54·6	+3·7	65	3, 12, 25	40	24th	—	—	53·9	—	53·4	1·5	—	1·6	·377	—	·368	90	—	90
a Ventnor ... ¶§	9, 3, −	80	9·756	—	9·835	60·7	53·1	56·9	+4·0	66	3rd	40	24th	—	—	57·1	59·2	—	3·0	3·7	—	·379	·392	—	81	78	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of OCTOBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER, No. of Days of											WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.													Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
3·01	—	30	—	7·7	7·0	6·5	5·49	—	0·83	13th	23	20	1	—	2	0	1	13	0	—	1	57	2	2	8	21	15	12	10	15	8	Castlebay.
2·58	−0·03	26	0	6·9	—	6·7	2·53	−1·75	0·45	24th	21	16	0	0	1	0	1	11	1	—	0	57	4	2	11	7	26	20	10	8	5	Deerness.
—	—	—	—	7·6	6·5	7·6	2·95	—	0·79	13th	23	16	1	—	0	0	0	11	3	—	5	50	2	9	11	10	23	19	13	3	3	Lerwick.
3·19	+0·48	32	+ 5	7·6	6·9	6·5	6·32	+0·63	1·08	13th	20	18	1	—	0	0	2	14	3	—	3	53	6	4	2	15	16	14	24	5	7	Stornoway.
—	—	—	—	7·1	6·1	6·4	1·94	−1·29	0·30	23rd	19	18	1	—	0	0	0	3	1	—	7	47	4	5	9	6	29	18	15	2	5	Wick.
3·00	+0·13	30	+ 1	6·3	—	5·7	1·03	−2·11	0·27	13th	16	8	1	0	0	0	2	6	0	—	0	23	33	0	3	14	3	12	16	9	3	Strathpeffer.
—	—	—	—	6·4	—	6·0	10·07	+0·61	2·69	24th	20	18	0	0	0	0	4	9	0	—	0	46	3	10	2	33	0	1	2	42	0	Glencarron.
2·55	+0·55	25	+ 5	7·5	—	6·8	3·31	−0·94	0·89	13th	16	14	0	0	0	0	2	14	0	—	0	45	3	2	33	6	0	6	40	3	0	F. Augustus.
—	—	—	—	7·5	—	6·6	6·55	−1·08	1·57	13, 24	17	17	0	0	0	0	2	15	1	—	0	35	29	0	10	3	8	4	34	3	2	Ft. William.
—	—	—	—	7·0	—	7·6	1·50	—	0·61	13th	15	8	0	0	0	0	2	15	1	—	2	41	16	0	5	6	4	12	27	20	3	Kingussie.
—	—	—	—	6·1	—	7·4	1·04	−2·23	0·26	27th	11	10	0	0	0	0	0	12	0	—	1	9	19	0	5	30	2	4	5	27	1	Dunrobin.
3·24	—	32	—	7·5	6·5	7·2	1·30	−1·17	0·31	8th	17	7	0	—	0	0	0	7	0	—	0	15	25	2	5	10	5	13	16	13	4	Nairn.
3·42	—	34	—	6·6	—	6·6	0·86	−2·52	0·19	24th	13	8	0	0	0	0	0	7	0	—	0	27	0	1	12	2	30	31	12	0	5	Gordon C.
3·13	−0·06	31	0	6·4	6·5	5·4	1·55	−1·39	0·48	5th	17	10	0	0	0	0	1	8	0	—	0	27	11	2	4	8	11	31	16	4	6	Aberdeen.
—	—	—	—	7·4	—	—	1·96	—	0·28	28th	20	17	0	0	0	1	2	12	0	7	3	18	0	3	9	6	12	6	18	27	12	Balmoral.
—	—	—	—	6·6	—	—	2·32	−1·62	0·38	19, 29	19	14	0	0	0	1	0	8	0	10	1	42	0	0	6	18	3	12	48	6	0	Braemar.
—	—	—	—	7·5	—	8·2	1·53	−1·17	0·25	27th	18	18	0	0	0	1	2	19	0	—	0	20	0	3	18	14	15	3	31	2	7	Dundee.
—	—	—	—	8·3	—	7·7	2·61	−1·49	0·72	13th	19	16	0	0	0	1	1	20	0	—	1	41	0	3	2	39	6	4	11	25	3	Crieff.
—	—	—	—	6·7	—	7·5	1·25	−0·94	0·44	4th	12	9	0	—	0	1	0	13	0	—	0	26	0	2	12	11	16	15	19	17	1	Leith.
2·97	—	29	—	6·8	—	6·2	2·26	—	0·58	7th	20	13	1	0	0	1	2	14	0	8	0	3	12	3	18	6	4	21	24	3	2	West Linton.
3·00	+0·23	29	+ 2	6·3	—	6·5	2·09	−1·54	0·52	7th	15	12	0	0	0	1	2	12	0	4	0	15	0	18	5	19	16	15	9	11	0	Marchmont.
3·04	—	29	—	6·2	—	6·3	3·32	+0·37	1·29	4th	15	9	0	0	0	0	2	8	0	—	0	41	4	6	0	21	12	11	30	9	0	Whitby.
2·97	—	29	—	6·4	—	6·4	1·88	−1·32	0·65	7th	16	13	0	0	1	0	1	7	0	3	0	14	1	4	16	5	14	12	21	18	2	Cockle Park.
—	—	—	—	8·3	—	8·4	1·90	−1·03	0·46	8th	14	10	0	—	0	1	0	20	2	—	0	18	0	3	20	9	9	25	18	6	3	Shields.
2·41	−0·46	23	− 5	7·7	—	7·9	2·64	−0·65	1·51	7th	16	10	0	0	1	1	3	20	2	2	0	27	16	3	13	5	9	18	24	2	3	Durham.
—	—	—	—	6·4	—	6·9	2·56	−0·49	1·00	7th	15	9	0	0	0	0	4	14	1	5	1	32	8	6	9	8	10	30	16	0	6	Rounton.
3·13	—	30	—	7·0	—	8·7	2·42	−0·76	0·82	7th	18	12	0	0	0	0	0	12	3	—	0	48	0	0	21	3	19	3	34	2	11	Scarborough
2·49	−0·22	24	− 2	5·3	—	7·1	2·36	−0·38	0·52	3rd	15	10	0	0	0	1	5	10	3	—	0	0	0	13	11	16	6	40	3	2	2	York.
3·04	—	29	—	7·2	7·9	7·0	2·39	+0·09	0·60	4th	16	13	0	—	0	0	0	10	3	—	1	59	0	2	4	18	15	24	15	7	8	Spurn Head.
—	—	—	—	7·3	—	4·9	2·86	+0·37	1·06	5th	11	7	0	0	0	0	5	13	4	—	0	24	0	2	3	28	12	0	28	11	9	Lincoln.
3·55	—	34	—	7·8	—	—	3·05	—	0·71	6th	19	11	0	0	0	0	3	18	6	—	1	57	0	0	12	9	15	18	27	6	6	Skegness.
2·25	—	22	—	6·0	—	4·9	2·87	−0·16	0·53	3rd	16	11	0	0	0	1	6	9	1	4	0	5	28	5	12	9	6	9	22	2	0	Hull.
3·58	—	34	—	6·1	5·3	4·0	3·75	+1·05	1·02	5th	15	11	0	0	0	3	4	8	2	0	0	27	3	3	1	9	14	22	25	7	9	Lowestoft.
3·59	—	34	—	7·2	—	5·7	2·68	—	0·56	26th	19	10	0	0	0	0	1	9	1	—	0	33	0	8	0	7	30	31	6	6	5	Cromer.
3·35	+0·22	32	+ 2	7·3	6·1	5·2	3·99	+1·08	1·75	5th	17	9	0	0	0	1	1	8	2	0	0	13	2	6	3	12	8	27	27	4	4	L. Mas'gh'm.
3·19	—	31	—	6·5	6·4	5·4	3·56	+0·65	0·76	26th	13	10	0	—	0	2	0	6	6	—	0	13	5	1	0	12	15	21	16	15	8	Yarmouth.
3·49	−0·03	33	− 1	6·0	—	4·4	3·36	+0·65	0·78	5th	24	9	0	0	0	2	5	6	10	—	0	0	3	5	6	18	10	18	13	9	11	Geldeston.
3·99	+0·60	38	+ 5	6·3	—	5·1	2·68	+0·33	0·72	26th	15	11	0	0	0	2	5	9	10	2	0	3	21	1	3	6	24	18	10	5	5	Cambridge.
3·96	—	38	—	6·7	6·4	6·6	3·17	—	0·90	26th	10	10	0	—	0	1	0	7	2	0	0	27	3	3	4	10	20	20	11	9	13	Clacton.
3·71	—	36	—	7·3	—	4·9	2·65	—	0·46	20th	16	13	0	0	0	2	2	10	8	—	0	12	24	5	5	3	7	19	21	6	3	Woburn.
3·20	—	31	—	6·9	5·8	5·4	3·18	+0·41	0·69	26th	16	14	0	0	1	4	3	9	10	5	0	1	25	0	2	8	13	26	10	8	1	Bennington.
3·34	—	32	—	7·5	—	6·7	3·56	+0·42	0·72	2nd	15	15	0	0	0	3	2	13	7	3	0	0	52	0	3	5	7	15	3	5	3	Berkh'mst'd.
1·90	—	18	—	6·6	—	7·0	2·87	—	0·68	7th	23	10	0	0	0	0	3	12	2	10	0	0	3	14	13	15	3	36	5	4	0	Garforth.
2·42	—	23	—	6·7	6·8	7·2	2·59	—	0·50	30th	17	10	0	0	0	1	4	17	3	4	0	2	17	4	22	2	13	5	19	7	4	Huddersf'ld.
2·49	—	24	—	7·3	—	7·5	4·17	+0·52	1·00	5th	17	12	0	0	0	0	1	15	3	1	0	6	15	8	13	6	8	21	12	4	6	Sheffield.
2·63	−0·05	25	− 1	7·5	7·3	7·2	3·58	+0·92	0·82	6th	18	12	0	0	0	1	2	16	3	6	0	1	11	7	14	4	13	18	21	3	2	Worksop.
2·32	—	22	—	7·8	6·1	6·1	4·01	−1·38	0·84	30th	18	13	0	0	0	0	2	9	0	3	0	1	2	2	17	12	17	9	28	4	2	Buxton.
3·32	—	32	—	6·9	—	5·9	4·21	+1·49	1·40	5th	14	9	0	0	0	4	3	11	17	4	0	23	12	5	6	3	10	30	18	6	3	Belvoir C.
2·79	—	27	—	7·2	—	—	3·15	+0·49	0·61	11th	17	13	0	0	0	1	6	18	4	7	—	21	12	0	18	9	21	18	9	3	3	Coventry.
3·27	—	31	—	7·2	6·4	—	3·16	—	0·71	5th	13	12	0	0	0	3	1	11	2	2	0	23	9	8	3	18	10	24	15	3	3	Thrapston.
2·48	—	24	—	7·5	6·4	5·9	3·64	+1·04	1·14	5th	14	12	0	—	0	0	2	9	9	4	0	24	0	5	8	19	9	22	22	5	3	Nottingham.
2·35	—	23	—	8·2	—	7·0	2·99	+0·16	0·86	5th	17	10	0	0	0	2	3	17	1	6	0	5	19	2	2	13	16	22	14	2	3	Birmingh'm.
2·96	−0·30	28	− 3	6·9	—	—	4·73	+1·97	1·78	2nd	18	14	0	0	1	3	—	—	9	2	0	18	14	5	6	6	17	28	9	3	5	Oxford.
							4·76	+1·88																							
3·24	—	31	—	7·5	—	7·5	3·14	+0·09	0·61	6th	17	15	0	—	1	1	2	17	0	—	0	21	2	0	14	24	12	18	10	11	2	Bath.
—	—	—	—	7·4	—	6·3	3·96	—	1·15	5th	17	15	0	0	0	2	3	12	2	6	0	2	22	0	13	0	21	15	14	2	6	Shrewsbury.
—	—	—	—	8·3	—	8·5	5·31	—	1·76	5th	17	15	0	0	1	3	1	22	4	1	1	14	42	6	4	6	6	8	19	0	2	Wistanstow.
—	—	—	—	7·5	—	5·7	4·75	—	1·10	4th	17	15	0	0	0	5	4	12	8	0	0	9	45	3	0	9	13	16	5	0	2	Bromyard.
3·24	—	31	—	6·5	—	4·6	3·56	+0·84	0·87	2nd	15	13	0	0	0	3	6	11	0	—	1	44	8	5	10	6	27	16	18	0	3	Cheltenham.
3·21	—	31	—	7·4	—	5·6	4·95	+2·13	0·70	3rd	18	15	0	0	0	1	5	14	1	—	0	5	18	9	6	3	11	31	9	6	0	Reading.
—	—	—	—	7·5	—	5·8	5·06	+1·50	0·77	7th	25	15	0	0	0	2	1	8	9	0	0	20	0	2	6	0	14	16	25	12	18	Salisbury.
2·99	—	29	—	7·0	7·6	—	5·78	—	0·99	20th	22	16	0	0	0	1	0	14	2	0	0	6	13	5	9	9	19	15	14	6	3	Grayshott.
2·77	—	26	—	7·0	6·7	—	5·01	—	0·80	20th	24	14	0	0	0	2	1	16	1	—	0	17	0	0	2	7	30	12	27	5	10	Midhurst.
3·67	−0·20	35	− 2	—	—	—	4·32	+0·79	0·91	21st	19	14	0	0	0	1	—	—	0	0	0	21	—	—	—	—	—	—	—	—	—	Brighton.
3·48	—	33	—	5·7	—	—	4·80	+1·40	1·09	6th	19	16	0	0	0	0	8	9	1	1	0	42	0	3	6	9	15	21	24	6	9	Portsmouth.
3·66	−0·11	35	− 1	6·4	—	2·8	5·04	+1·07	1·02	26th	19	15	0	0	0	1	8	7	1	—	0	5	3	8	12	3	9	9	25	9	15	Eastbourne.
3·78	—	36	—	6·4	—	5·6	3·87	—	0·84	21st	21	17	0	—	0	1	1	7	4	0	0	38	12	6	6	6	8	16	28	2	9	Dover.
—	—	—	—	7·5	6·6	6·8	3·94	+0·70	0·87	21st	16	15	0	—	0	2	0	6	5	—	1	40	2	8	6	11	9	24	19	8	6	Dungeness.
3·94	+0·10	37	0	5·8	—	4·7	5·40	+1·68	0·75	26th	20	16	0	0	1	3	6	7	1	0	0	26	3	5	6	7	9	17	22	17	7	Hastings.
2·66	−0·95	25	−10	6·0	—	3·6	4·26	+0·63	0·70	20th	19	14	0	0	0	2	5	4	1	0	0	15	0	0	24	2	24	0	39	0	4	S'mpton.
3·75	−0·19	36	− 1	7·0	6·0	—	2·87	−0·90	0·57	6th	21	13	0	0	0	0	1	8	0	—	2	32	0	8	2	13	13	27	18	9	3	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·819	—	9·868	58·9	47·9	53·4	+4·3	69	2nd	35	25th	—	57·9	52·4	—	52·6	1·7	—	1·3	·352	—	·370	89	—	91
p Hampstead ...	9, –, 9	453	9·419	—	9·898	58·8	47·5	53·2	—	66	2nd	36	24th	—	—	51·6	—	52·0	1·8	—	1·5	·335	—	·348	88	—	90
a Camden Square ...	9, –, 9	123	9·761	—	9·883	61·5	47·2	54·4	+4·3	70	2nd	37	23, 24, 25	53·1	55·0	52·9	—	52·2	1·7	—	1·1	·353	—	·361	89	—	92
a Westminster ...	9, 3, –	—	—	—	—	61·0	49·3	55·2	+6·0	66	1 to 4	40	25th	—	—	54·0	59·0	—	1·9	4·0	—	·363	·380	—	87	76	—
a South Kensington*	9, 3, 6	70	9·804	—	9·874	60·9	50·2	55·6	—	66	1 to 4	41	25, 26	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·704	—	9·877	61·2	45·9	53·6	+3·5	67	4th	36	23rd	—	56·3	53·1	58·0	51·2	1·8	4·3	1·3	·354	·360	·363	88	75	91
			9·703	–·035	9·878			52·7	+2·7																		
Kew ... ¶§	9, 3, 9	34	9·839	–·064	9·874	59·9	47·3	53·6	+4·4	66	2nd	37	24th	53·8	55·6	52·6	58·5	52·0	1·6	4·2	1·4	·355	·373	·355	89	76	91
			9·838	–·063	9·875			53·2	+4·2																		
6. SCOTLAND, W.																											
p Eskdalemuir ...	9, 3, 9	778	8·999	—	9·840	52·0	41·0	46·5	—	61	19th	20	23, 24	—	—	47·3	50·6	45·6	1·9	3·4	1·4	·286	·291	·280	87	78	89
p Poltalloch ... § ¶	9, –, 9	135	9·642	—	9·784	54·9	43·2	49·1	+1·6	64	2nd	30	24th	—	—	49·8	—	48·8	1·9	—	1·4	·310	—	·310	87	—	90
a Glasgow	7, 1, 9	355	9·428	—	9·813	53·6	44·4	49·0	+2·2	61	13, 19	32	24th	—	—	47·4	52·1	48·2	1·8	3·8	1·8	·284	·293	·293	87	75	88
p Rothesay ... § ¶	9, –, 9	76	9·737	—	9·813	54·2	45·5	49·9	+2·1	59	3rd	34	23, 24	50·3	51·9	49·8	—	49·4	2·2	—	2·1	·302	—	·300	85	—	86
a Colmonell ... § ¶	9, 3, –	150	9·652	—	9·818	57·7	44·7	51·2	+3·3	66	1st	27	24th	—	—	50·2	54·4	—	1·6	2·8	—	·322	·346	—	89	82	—
p Dumfries ... § ¶	9, –, 9	155	9·686	—	9·849	55·6	44·6	50·1	+2·4	65	19th	28	24th	51·3	54·2	49·7	—	49·3	2·7	—	2·1	·290	—	·299	82	—	85
p Cally ... § ¶	9, –, 9	120	—	—	—	56·3	44·4	50·4	+3·3	63	2nd	25	24th	—	—	50·9	—	50·1	1·6	—	1·5	·332	—	·323	89	—	89
p Douglas ... ¶§	9, –, 9	284	9·511	—	9·810	56·2	48·5	52·4	+3·8	64	19th	33	24th	—	—	52·4	—	51·1	2·0	—	1·7	·345	—	·339	87	—	89
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·782	—	9·826	57·0	45·8	51·4	+2·8	65	1st	33	23rd	50·6	54·0	51·1	55·7	50·2	2·0	3·5	1·4	·329	·351	·332	87	79	91
p Manchester (City)	9, –, 9	195	9·644	—	9·845	57·5	48·4	53·0	—	65	1, 19	34	25th	52·8	57·5	52·2	—	52·5	2·6	—	2·5	·327	—	·333	83	—	88
p „(WhitworthPk.)¶	9, –, 9	127	9·700	—	9·827	57·7	47·5	52·6	—	66	19th	32	25th	—	—	52·4	—	51·6	1·6	—	1·1	·351	—	·353	89	—	92
p Darwen	9, –, 9	730	9·065	—	9·845	54·5	45·1	49·8	—	61	1st	34	24th	51·2	52·9	49·8	—	49·3	1·7	—	1·5	·319	—	·319	89	—	90
p Egremont	9, –, 9	354	9·440	—	9·814	56·8	45·4	51·1	—	65	18th	30	24th	51·5	53·0	51·3	—	49·9	1·9	—	1·4	·331	—	·330	87	—	90
p Aspatria ... ¶§	9, –, 9	254	9·538	—	9·814	56·4	43·9	50·2	+3·2	67	19th	28	24th	51·0	52·7	51·1	—	48·7	1·8	—	1·0	·332	—	·323	88	—	93
p Newton Rigg ¶§	9, –, 9	559	9·234	—	9·833	55·3	43·0	49·2	+3·1	62	17th	25	24th	51·1	52·4	48·2	—	48·3	1·5	—	1·4	·300	—	·304	90	—	90
p Stonyhurst ¶§	–, –, 9	363	—	—	—	55·8	45·9	50·9	+3·4	63	1st	32	24th	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·750	—	9·821	57·3	46·3	51·8	+2·8	66	1st	33	24th	52·9	54·2	53·3	—	50·4	3·1	—	1·3	·330	—	·336	80	—	91
p Liverpool (Bid.) ¶	9, –, 9	202	9·613	—	9·824	56·1	47·0	51·6	+2·4	64	1st	36	25th	—	—	51·0	—	51·0	2·3	—	2·0	·316	—	·323	84	—	86
p Llandudno... ¶§	9, –, 9	32	9·748	—	9·773	58·5	48·0	53·3	+2·7	68	19th	38	24th	—	—	53·4	—	53·2	2·6	—	2·3	·337	—	·343	83	—	84
a Holyhead ... ¶	7, 1, 9	48	9·760	–·111	9·777	57·8	49·7	53·8	+3·0	63	19, 28	37	24, 25	—	—	52·8	56·8	53·7	2·3	3·5	2·1	·338	·362	·354	85	78	86
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	9·775	—	9·798	58·5	48·4	53·5	—	66	19th	30	24th	54·1	55·5	54·4	—	52·5	1·6	—	0·2	·378	—	·390	90	—	98
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·209	—	9·837	57·5	43·2	50·4	+0·6	67	19th	28	25th	51·6	54·0	50·3	—	—	1·0	—	—	·339	—	—	93	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·609	–·134	9·768	58·8	50·5	54·7	+3·1	65	1st	42	24, 25	—	—	53·0	56·3	54·2	0·6	1·4	0·6	·386	·412	·403	96	90	96
a Portland Bill ¶	7, 1, 9	23	9·792	–·105	9·827	60·0	53·8	56·9	+4·2	64	3rd	43	24th	—	—	56·5	58·7	56·3	2·7	3·3	3·0	·379	·395	·369	83	79	81
p Plymouth ... ¶§	9, 3, 9	116	9·674	—	9·798	60·4	50·6	55·5	+4·2	64	3, 13, 19	40	16th	55·7	—	56·7	57·8	54·4	2·2	2·8	1·2	·395	·395	·389	86	82	92
Falmouth ... ¶§	7, 1, 6	183	9·600	–·131	9·793	59·2	48·8	54·0	+2·1	64	4, 12	39	22nd	57·0	58·3	52·0	57·7	54·2	1·2	3·1	1·5	·358	·389	·380	92	81	89
p Cardiff	9, –, 9	216	9·605	—	9·829	58·8	47·5	53·2	+3·8	64	3, 13, 19	38	24th	54·1	56·1	52·7	—	51·9	2·0	—	1·9	·344	—	·336	87	—	87
a Newquay ... §	7, –, 6	161	9·632	–·143	9·771	58·9	48·7	53·8	+1·4	64	2, 14, 25	38	22nd	55·6	—	52·5	—	54·2	1·3	—	1·7	·359	—	·372	90	—	89
p Woolacombe ...	9, –, 9	120	9·692	—	9·811	60·3	50·3	55·3	+1·4	65	12, 19	40	24th	—	—	55·8	—	53·8	3·1	—	2·2	·396	—	·359	81	—	86
a Princetown ...	9, 3, –	1360	8·342	—	—	54·8	46·0	50·4	—	62	19th	37	24th	—	—	50·4	52·2	—	1·4	2·3	—	·330	·331	—	90	84	—
p Sheepstor	9, 3, 9	730	9·022	—	9·802	58·6	43·6	51·1	—	64	19th	32	22nd	—	—	53·1	55·2	49·4	1·9	2·9	0·9	·357	·360	·340	88	82	94
p Teignmouth ...	9, 3, 9	20	9·805	—	9·824	61·0	49·8	55·4	—	66	3, 14	38	22, 24	—	—	54·8	59·1	55·2	2·5	4·2	2·5	·362	·382	·370	85	76	84
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·470	–·110	9·722	55·5	46·8	51·2	+2·1	65	13th	39	23rd	—	—	49·8	54·0	52·1	1·1	1·6	1·3	·330	·371	·355	92	89	91
West. *a* Blacksod Point ¶	7, 1, 9	41	9·654	–·183	9·696	56·8	47·1	52·0	+1·9	64	17th	35	24th	—	—	51·2	55·4	53·1	1·2	2·6	2·1	·345	·366	·346	92	84	85
West. *p* Markree Castle ¶§	9, –, 9	127	9·604	—	9·734	57·9	43·5	50·7	+3·2	64	12,13,17	27	25th	53·8	54·9	49·8	—	48·5	1·7	—	1·4	·315	—	·306	88	—	90
East. *a* Donaghadee ¶	7, 1, 9	40	9·736	–·093	9·778	55·8	47·4	51·6	+2·9	61	19th	34	23, 25	—	—	50·2	54·9	51·5	1·5	3·0	2·0	·325	·349	·329	90	80	87
East. *p* Armagh ... ¶§	9, –, 9	202	9·538	—	9·750	56·7	45·2	51·0	+3·7	63	12, 13	29	24th	52·8	54·1	51·4	—	48·6	2·1	—	2·0	·333	—	·299	86	—	85
East. *a* Belfast	9, –, 9	55	—	—	—	57·4	45·4	51·4	—	62	1, 13, 17	31	24th	—	—	51·9	—	49·8	2·5	—	1·8	·329	—	·318	83	—	87
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	56·7	43·2	50·0	—	64	17th	27	24th	51·4	54·9	50·7	—	48·9	1·7	—	1·3	·326	—	·315	88	—	91
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	9·748	—	9·756	58·0	47·6	52·8	—	65	13, 18	30	24th	53·3	54·9	53·4	—	51·3	3·0	—	2·2	·339	—	·328	81	—	85
East. *p* „ (Phœnix Pk.) §	9, –, 9	159	9·606	—	9·770	57·5	43·9	50·7	+2·9	66	13, 17	25	24th	—	—	53·3	—	48·5	2·5	—	1·3	·349	—	·318	84	—	91
East. *p* „ (City)... ¶	9, –, 9	53	9·708	—	9·758	56·7	47·4	52·1	+2·6	65	13th	30	24th	—	—	51·4	—	50·2	2·0	—	1·7	·338	—	·329	86	—	89
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·545	–·165	9·736	57·1	43·6	50·4	+2·7	64	4th	24	24, 25	54·2	55·7	47·9	55·9	51·9	0·8	3·3	1·8	·312	·357	·339	95	80	88
West. Valencia ... ¶§	9, 3, 9	45	9·654	–·209	9·700	56·7	47·2	52·0	+0·7	63	16th	31	24th	—	—	52·2	55·5	51·6	1·7	2·9	1·8	·354	·367	·345	88	82	88
			9·652	–·207	9·702			52·6	+1·4																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·693	–·170	9·742	57·4	48·6	53·0	+2·0	63	1st	34	24, 25	—	—	51·6	56·3	53·7	1·1	2·6	1·7	·353	·379	·364	93	83	88
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·659	—	9·710	57·5	43·9	50·7	—	63	13, 17	20	24th	53·8	—	51·2	54·7	49·0	1·3	2·7	1·0	·343	·352	·322	91	82	93
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·581	–·167	9·748	58·9	51·6	55·3	+1·7	64	2nd	45	22, 23	—	—	54·0	57·7	54·3	0·5	1·5	0·6	·403	·431	·405	97	90	96
a Jersey ... ¶§	7, 1, 9	36	9·826	–·083	9·862	61·9	51·9	56·9	+3·0	68	1st	43	16th	—	—	55·4	59·7	56·3	1·9	3·7	2·3	·385	·399	·387	88	78	85
p Guernsey (Brooklyn).	9, –, 9	311	9·522	—	9 847	61·2	52·4	56·8	+3·1	66	1st	45	21st	57·1	59·1	56·3	—	55·5	2·3	—	2·0	·385	—	·389	86	—	87
a Gibraltar ...	7, 1, 9	53	9·938	—	9·995	70·3	60·1	65·2	—	75	3rd	52	22nd	—	—	62·4	68·3	64·0	2·8	5·6	2·6	·473	·490	·506	84	71	85

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of OCTOBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.							
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
2·62	—	25	—	8·3	—	7·4	3·39	—	0·79	26th	13	12	0	0	0	2	0	16	6	0	0	3	24	2	2	12	16	21	7	0	9	Tottenham.
2·98	—	28	—	7·9	—	5·9	3·23	—	0·70	26th	14	12	0	0	0	0	0	11	13	6	0	0	37	2	6	10	5	13	16	2	2	Hampstead.
2·51	—	24	—	7·5	—	—	3·11	+0·37	0·71	26th	15	11	0	0	0	1	5	20	6	0	—	—	36	0	18	0	9	21	3	0	6	Camden Sq.
2·79	+0·56	27	+ 6	—	—	—	2·93	+0·20	0·71	26th	14	12	0	—	0	1	—	—	9	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
2·57	—	25	—	7·8	—	6·1	2·97	—	0·74	26th	14	12	0	—	0	1	1	15	7	1	0	7	21	4	3	8	9	27	17	2	2	S.Kensingtn
3·57	+0·43	34	+ 5	7·5	6·6	4·9	3·58	+0·80	0·78	26th	15	13	0	0	0	0	0	7	14	5	0	1	20	4	3	8	9	17	22	9	1	Greenwich.
3·11	+0·08	30	+ 1	7·4	7·1	6·4	3·48	+0·77	0·70	26th	20	13	0	0	0	2	0	8	14	0	0	11	30	1	6	10	10	20	12	1	3	Kew.
2·27	—	22	—	7·5	7·9	7·1	4·46	—	0·85	29th	17	16	1	0	1	1	1	17	0	—	0	52	13	6	16	5	7	24	20	1	1	Eskdalemuir
—	—	—	—	6·7	—	5·9	4·06	−1·37	0·71	19th	20	16	0	0	0	0	6	13	0	—	0	45	4	2	10	8	16	20	22	8	3	Poltalloch.
2·85	+0·59	28	+ 6	7·8	7·1	6·8	1·66	−2·08	0·36	13th	14	14	3	—	3	0	0	13	1	3	0	32	0	1	20	21	5	16	21	6	3	Glasgow.
2·95	—	29	—	7·1	—	6·1	3·36	−1·40	1·07	13th	21	18	0	0	0	0	4	13	3	1	1	32	4	3	2	33	9	21	5	13	3	Rothesay.
—	—	—	—	6·6	—	—	3·16	−1·83	0·94	13th	17	12	0	0	0	0	6	14	0	2	0	36	0	9	3	21	21	9	18	12	0	Colmonell.
2·19	—	21	—	6·6	—	6·2	3·08	−0·96	0·54	29th	19	13	0	0	0	0	3	10	0	4	0	18	0	0	33	5	9	4	39	0	3	Dumfries.
—	—	—	—	—	—	—	3·33	−1·67	1·00	13th	15	11	0	0	0	0	0	—	0	—	0	23	0	0	18	3	29	0	18	3	22	Cally.
2·64	−0·68	26	− 6	7·6	—	5·7	3·46	−1·26	0·76	29th	19	16	0	0	1	1	1	13	0	1	2	30	4	2	14	16	13	16	14	12	2	Douglas.
2·66	−0·21	26	− 2	7·0	7·6	7·5	2·32	−1·55	0·41	14th	18	14	0	0	1	4	2	15	4	3	0	51	3	2	7	21	25	22	6	4	3	Southport.
2·20	—	21	—	4·8	—	5·6	1·53	−2·20	0·34	14th	13	11	0	0	0	1	0	2	0	2	0	14	0	14	12	16	19	14	8	3	7	Manchester.
2·36	—	23	—	6·9	7·0	6·1	1·60	—	0·38	7th	16	9	0	0	0	1	3	11	1	—	0	21	14	2	19	12	21	23	2	0	0	Whitwth Pk.
2·27	—	22	—	8·2	—	8·6	2·29	—	0·45	14th	20	12	0	0	0	2	0	19	0	0	0	30	2	0	15	7	12	46	5	6	0	Darwen
2·79	—	27	—	6·1	—	6·9	6·50	—	1·08	14th	20	19	0	0	1	0	5	10	0	4	0	29	6	11	6	7	19	28	12	2	2	Egremont.
2·89	—	28	—	6·2	—	5·3	2·90	−1·15	0·56	14th	13	13	0	0	0	1	1	2	5	1	0	20	6	0	8	22	5	24	21	7	0	Aspatria.
2·66	−0·05	26	0	7·0	—	6·1	3·28	−0·61	0·58	7th	19	13	0	0	0	1	2	10	1	6	1	24	10	4	9	9	24	22	11	2	2	N'wt'n Rigg.
2·22	−0·62	21	− 6	—	—	—	2·08	−2·89	0·62	7th	12	8	0	0	0	1	—	—	0	4	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
2·77	−0·20	27	− 2	7·7	—	8·1	3·18	−0·84	0·47	7th	20	17	0	0	0	3	0	17	1	2	0	44	0	15	20	28	15	7	3	5	Blackpool.
2·95	—	28	—	5·9	—	7·2	2·56	−0·98	0·42	29th	18	14	0	0	0	2	2	12	2	—	0	14	0	2	12	19	33	13	8	3	3	Liverpool.
3·22	+0·38	31	+ 4	7·2	—	7·6	2·07	−1·86	0·37	7th	16	12	0	0	0	1	2	16	0	—	0	12	4	2	2	24	4	17	6	31	3	Llandudno.
2·65	—	25	—	7·3	7·6	6·2	3·91	−0·42	0·85	29th	22	18	0	—	1	0	0	9	2	—	1	41	0	6	7	17	11	24	21	5	2	Holyhead.
—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
2·84	—	27	—	7·2	—	6·0	3·87	—	1·02	29th	21	15	0	0	0	0	1	11	0	2	2	21	25	6	6	8	2	30	16	0	0	Dwyran.
2·59	—	25	—	8·5	—	—	5·47	—	0·72	7th	19	17	0	0	0	2	3	25	3	4	0	21	39	3	3	6	9	6	21	3	3	Llangamch.
3·09	−0·23	30	− 2	6·6	5·9	6·2	3·74	−0·28	0·55	28th	16	15	0	—	0	1	1	0	0	—	3	56	0	6	13	13	9	24	20	5	3	Pembroke.
—	—	—	—	6·0	5·6	5·8	2·87	—	1·25	6th	14	10	0	—	0	2	1	3	0	—	6	55	2	1	13	10	17	14	21	12	3	Portl'nd Bill
3·98	+0·50	38	+ 5	7·3	7·3	6·0	3·88	+0·10	0·82	30th	20	18	0	0	0	0	3	13	0	0	2	34	8	4	7	11	18	17	18	8	2	Plymouth.
3·57	−0·20	34	− 2	6·2	7·4	6·2	5·45	+0·32	1·12	10th	17	13	0	0	0	3	1	9	2	0	0	12	16	3	7	8	9	23	17	7	3	Falmouth.
3·48	—	33	—	—	—	—	5·10	+0·37	0·90	10, 30	17	13	0	0	1	3	—	—	1	1	0	14	15	0	25	6	19	3	11	5	9	Cardiff.
3·94	+0·36	37	+ 3	5·9	—	5·5	4·87	+0·70	0·85	10th	19	14	0	—	0	0	6	8	0	—	0	26	3	5	3	9	33	25	9	3	3	Newquay.
3·41	+0·12	33	+ 2	4·5	—	3·2	3·11	−0·94	0·64	7th	16	12	0	0	1	2	5	1	0	—	0	15	6	3	14	25	21	10	9	3	2	Woolac'mbe.
—	—	—	—	8·5	8·1	—	6·57	—	1·16	30th	21	20	0	0	1	1	0	19	5	—	0	23	0	2	13	0	27	15	28	0	8	Princetown.
—	—	—	—	5·9	6·9	5·8	5·90	—	1·18	30th	21	18	—	—	—	—	2	8	—	—	1	28	8	1	10	5	21	24	18	4	2	Sheepstor.
3·52	—	33	—	6·3	6·3	6·3	4·88	—	1·05	6th	20	17	0	0	0	3	1	6	1	0	2	33	0	1	4	11	10	27	17	15	8	Teignmouth
—	—	—	—	7·6	7·2	6·8	2·00	−1·22	0·47	22nd	16	13	0	—	1	0	0	11	1	—	6	68	0	3	6	11	18	17	30	5	3	Malin Head.
—	—	—	—	6·5	6·3	7·5	6·39	+1·26	1·56	13th	21	18	0	—	1	0	1	5	0	—	1	30	3	3	12	9	11	16	24	12	3	Blacksod Pt.
3·00	+0·16	29	+ 2	7·5	—	7·1	3·07	−1·21	0·39	10, 19	16	15	0	0	0	0	0	13	0	5	0	5	31	2	9	2	28	15	4	0	2	Markree Cas.
—	—	—	—	6·7	6·5	6·0	2·49	−0·48	0·40	28th	17	14	0	—	0	0	0	5	0	—	0	31	0	5	7	11	11	23	28	5	3	Donaghadee.
2·56	−0·38	25	− 3	7·6	—	6·7	3·72	+0·92	1·07	19th	16	12	0	0	0	0	3	17	0	4	0	7	25	1	10	5	14	26	12	0	0	Armagh.
—	—	—	—	—	—	—	3·84	+0·48	0·96	25th	19	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·9	—	5·0	3·58	—	0·62	13th	21	14	0	0	1	1	3	7	0	—	0	24	4	6	6	12	19	24	15	5	2	Newtown-forbes.
2·41	—	23	—	7·5	—	5·0	3·60	—	0·87	7th	16	12	0	0	0	0	8	15	4	4	0	6	30	0	5	15	16	9	7	9	2	Dublin T. C.
2·85	−0·67	27	− 7	6·8	—	3·8	4·43	+1·58	1·42	5th	18	11	0	0	0	0	6	8	0	5	0	10	23	3	10	8	12	14	17	4	2	Phœnix Pk.
—	—	—	—	5·9	—	4·7	3·76	+0·89	0·96	7th	17	11	0	0	0	0	8	9	1	1	1	21	6	6	10	9	17	21	14	4	6	Dublin (City).
2·86	−0·30	27	− 3	7·2	6·6	7·0	3·63	+0·70	0·83	5th	17	12	0	—	0	0	0	5	2	6	0	8	2	7	7	10	18	29	10	3	7	Birr Castle.
3·40	+0·08	33	+ 1	6·9	6·9	6·2	8·23	+2·75	1·28	4th	22	20	0	0	1	1	5	14	0	—	0	42	7	3	19	8	13	23	11	6	3	Valencia.
—	—	—	—	7·0	7·3	6·8	6·59	+2·42	0·87	4th	30	18	0	—	1	1	3	14	2	—	2	35	0	12	17	5	7	24	17	8	3	Roche's Pt.
2·89	—	28	—	7·2	6·8	5·7	3·67	—	0·95	4th	15	12	0	0	0	1	3	10	3	6	2	34	13	8	15	3	10	30	10	0	4	Limerick.
3·86	+0·15	37	+ 2	6·2	5·8	6·0	3·44	−0·32	0·56	10th	20	16	0	—	1	2	0	1	3	—	5	48	1	0	5	17	19	24	8	13	6	Scilly.
4·89	+0·83	46	+ 8	5·6	5·9	4·5	3·62	−0·90	0·76	20th	19	13	0	—	0	3	0	5	0	—	0	37	0	2	2	15	26	18	17	11	2	Jersey.
5·16	+1·55	49	+15	6·1	—	4·7	5·49	+0·69	1·32	1st	21	14	0	0	1	1	4	3	2	0	0	33	10	0	5	10	18	23	18	7	2	Guernsey.
—	—	—	—	6·3	6·0	5·5	3·12	—	1·12	7th	13	7	0	0	0	0	1	4	0	0	1	22	2	0	0	30	12	4	15	21	9	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, OCTOBER, 1913.

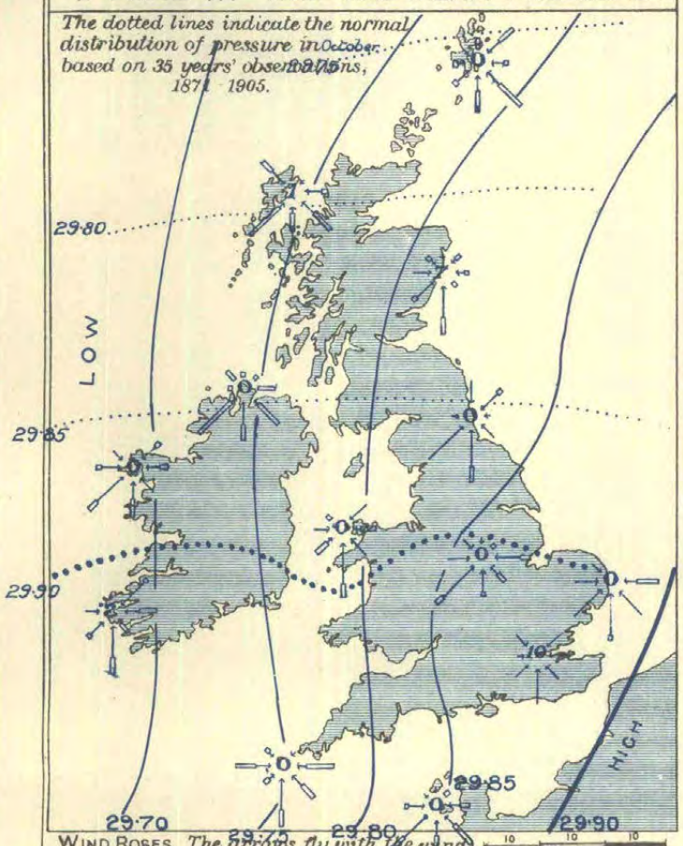
DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE, Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
a Baltasound ...	$	31	51·6	42·9	47·3	—	57	17, 18	31	23rd	47·8	—	3·94	—	1·29	13th	28	1	0	1	1	—	1·71	—	17	—
a Fortrose	...	69	55·7	43·3	49·5	—	63	19–21	31	23rd	—	—	0·97	—	0·37	14th	11	0	0	0	2	—	3·40	—	34	—
1. SCOTLAND, E.																										
a Crathes	$ §	140	55·7	43·3	49·5	—	64	25th	31	23rd	50·5	52·0	1·24	—	0·35	5th	18	0	0	0	2	4	3·02	—	30	—
p Stonehaven		86	56·3	45·6	51·0	—	63	31st	32	23, 24	—	—	1·69	—	0·44	5th	18	0	0	0	0	—	3·28	—	32	—
p Balruddery ...	$ §	276	54·9	42·1	48·5	—	64	19th	32	22, 24	—	—	1·51	—	—	—	17	0	0	0	0	—	3·18	—	31	—
a Carnoustie		39	55·1	46·1	50·6	—	62	17th	34	24th	—	—	1·59	—	0·31	27th	17	0	0	0	0	—	3·27	—	32	—
a St, Andrews		20	56·5	44·5	50·5	—	65	19th	33	10, 22	50·1	52·3	1·77	—	0·47	5th	11	0	0	0	0	4	3·45	—	34	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	55·8	44·7	50·3	+ 3·2	63	17th	31	24th	—	—	1·51	−2·01	0·38	7th	17	0	0	0	0	—	—	—	—	—
a Bellingham		848	54·0	42·4	48·2	—	64	19th	27	24th	—	—	3·03	—	1·26	7th	17	0	0	0	0	—	—	—	—	—
a Tynemouth		90	55·6	46·1	50·9	—	62	17th	31	24th	51·4	53·3	2·04	—	0·75	8th	13	0	0	1	2	2	2·46	—	24	—
a Chopwellwood		445	55·8	43·0	49·4	—	67	17th	27	24th	—	—	1·39	—	0·25	8th	17	0	0	0	1	9	2·57	—	25	—
a Ushaw		599	54·5	43·9	49·2	—	62	17th	29	24th	—	—	3·10	—	1·62	7th	15	0	0	0	0	—	—	—	—	—
a Ampleforth ...		349	55·1	44·1	49·6	—	61	8th	29	24th	—	—	3·06	—	0·78	7th	17	0	0	1	6	—	—	—	—	—
a West Witton ...		605	54·7	43·7	49·2	—	63	19th	27	24th	49·9	51·5	2·99	—	1·07	7th	16	0	0	0	7	4	—	—	—	—
a Fulbeck	¶	180	57·5	44·7	51·1	+ 3·7	65	1st	29	24th	—	—	4·02	+1·55	2·21	5th	11	0	0	1	0	5	—	—	—	—
a Rauceby	§	124	57·7	44·2	51·0	—	66	1st	30	25th	53·0	54·9	6·02	+3·30	2·57	5th	13	—	—	—	—	—	2·92	—	28	—
3. ENGLAND, E.																										
a Norwich		93	58·2	45·6	51·9	—	65	1, 2	32	25th	51·9	—	3·83	—	0·85	5th	15	0	0	2	4	2	3·38	—	32	—
a Peterborough (Eye) ...		16	59·1	44·6	51·9	—	67	1st	29	25th	—	—	4·03	—	1·09	5th	15	0	1	2	5	—	—	—	—	—
a Ridgewell		269	58·2	45·0	51·6	—	66	2nd	30	25th	—	—	3·14	—	0·63	5th	14	0	0	3	3	—	—	—	—	—
a Ipswich (Copdock) ...		164	59·4	45·5	52·5	—	66	3rd	32	24, 25	53·2	55·1	3·33	—	0·74	26th	17	0	0	3	4	4	3·25	—	31	—
a Felixstowe ...		10	59·6	49·6	54·6	+ 4·8	65	3rd	36	24th	—	—	2·93	—	0·69	26th	15	0	0	1	3	—	4·25	—	41	—
a Walton-on-Naze		68	58·4	49·6	54·0	—	64	2nd	35	24th	—	—	2·37	—	0·52	26th	15	0	0	0	1	0	3·67	—	35	—
a Halstead		139	60·2	44·8	52·5	—	68	2nd	30	25th	—	—	3·62	—	0·78	7th	14	0	0	0	0	—	—	—	—	—
a Chelmsford		134	60·5	43·4	52·0	—	70	2nd	30	23, 25	—	—	3·23	—	0·81	26th	14	0	0	0	4	—	—	—	—	—
p Hemel Hempstead ...		535	58·3	44·2	51·3	—	65	1st	31	24th	—	—	4·04	—	0·60	2nd	21	0	0	2	1	5	—	—	—	—
a Rothamsted ...	¶§	424	58·8	45·2	52·0	+ 4·0	66	1st	31	24, 25	—	—	3·09	+0·02	0·52	26th	21	0	0	2	0	—	3·43	−0·02	33	0
a Shoeburyness		13	59·8	48·3	54·1	+ 3·1	66	3rd	35	25th	—	—	4·57	+2·31	1·00	26th	19	0	0	1	5	—	—	—	—	—
a Southend		90	61·5	50·2	55·9	—	69	3rd	38	24th	56·4	—	4·02	+1·58	1·15	26th	15	0	0	1	2	0	3·97	—	38	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	54·4	44·0	49·2	+ 2·3	60	19, 21	30	24th	50·9	52·4	2·82	−0·50	0·75	7th	19	0	0	1	0	4	2·17	—	21	—
a Bradford		439	54·8	45·1	50·0	—	62	19th	31	24th	50·4	55·0	2·59	—	0·80	7th	17	0	1	0	3	2	2·14	—	21	—
a Meltham		513	55·6	45·0	50·3	—	67	19th	33	23rd	50·4	—	3·28	—	0·68	7th	16	—	—	—	—	4	—	—	—	—
a Cheadle	¶	646	55·0	45·2	50·1	+ 3·2	63	1st	32	25th	—	—	4·45	+1·19	1·12	3rd	14	—	—	—	—	2	—	—	—	—
a Wellington		207	58·0	41·7	49·9	—	65	1, 2	26	25th	—	—	3·24	—	1·23	5th	16	0	0	4	2	—	—	—	—	—
a Bawtry	¶	65	57·2	44·2	50·7	+ 3·1	65	1st	30	25th	—	—	2·95	+0·35	0 58	7th	16	0	0	0	0	—	—	—	—	—
a Matlock		636	56·4	44·5	50·5	—	64	1st	30	23, 24	—	—	3·61	—	0·95	5th	15	0	0	0	8	—	2·28	—	22	—
a Belper		222	57·0	43·9	50·5	—	67	1st	29	25th	—	—	3·48	—	1·22	5th	16	0	0	0	2	—	—	—	—	—
a Belper (Quarry Bank) ...		280	56·0	44·4	50·2	—	65	1st	29	25th	—	—	3·63	+0·32	1·31	5th	14	0	0	0	2	—	—	—	—	—
a Mayfield (Staffs) ...		374	56·5	42·6	49·6	—	65	1st	26	25th	—	—	2·79	—	0·68	5th	16	0	0	0	7	4	1·91	—	18	—
a Strelley		377	56·7	44·9	50·8	+ 3·6	66	1st	30	25th	52·3	—	3·85	+1·00	1·23	5th	13	0	0	2	6	—	2·38	−0·39	23	− 4
a Kingston-on-Soar...		125	58·2	44·3	51·3	—	66	1st	29	24th	53·3	—	3·35	—	1·41	5th	12	0	0	0	5	—	—	—	—	—
a Sparkhill		425	58·5	43·7	51·1	—	66	1st	30	25th	—	—	3·47	—	0·91	5th	16	0	0	3	0	8	—	—	—	—
p Rugby	¶	379	58·7	43·2	51·0	+ 3·4	67	1st	27	24th	—	—	3·34	—	0·56	8th	18	0	0	1	0	6	—	—	—	—
a Raunds	¶	204	60·5	44·1	52·3	+ 4·3	67	12th	28	24, 25	53·9	55·6	2·82	—	0·82	7th	13	0	0	2	4	5	3·64	—	35	—
a Malvern		520	56·3	47·2	51·8	—	63	1, 2	38	24, 25	—	—	4·86	—	0·93	4th	18	—	—	—	—	—	2·73	—	26	—
a Ross...		214	58·9	45·7	52·3	—	67	19th	32	25th	—	—	3·89	—	0·70	2nd	21	0	0	2	3	—	—	—	—	—
a Hereford	¶	291	57·6	44·7	51·2	+ 2·8	65	19th	31	25th	—	—	4·26	+1·49	0·91	30th	17	0	0	2	0	5	—	—	—	—
a Leamington		165	58·8	45·2	52·0	—	66	1st	29	25th	54·5	58·5	3·29	—	0·89	2nd	16	0	0	1	2	8	2·83	—	27	—
a Cirencester... ...	¶§	446	57·8	44·5	51·2	+ 3·6	66	19th	32	22nd	53·3	54·7	3·56	+0·41	0·98	4th	20	—	—	—	—	0	2·56	−0·70	25	− 6
a High Wycombe ...		249	59·2	45·7	52·5	—	67	1st	33	25th	—	—	5·16	—	1·11	2nd	14	0	1	2	4	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	58·8	45·0	51·9	—	64	1, 2, 20	33	22nd	—	—	3·01	—	0·41	4th	17	0	0	2	3	5	—	—	—	—
a Wokingham		216	59·6	41·5	50·6	—	67	2nd	27	25th	—	—	3·90	—	0·89	11th	18	0	0	2	7	—	—	—	—	—
a Marlborough ...	¶§	424	58·5	44·6	51·6	+ 4·0	64	2, 3, 13	32	23rd	—	55·2	2·91	−0·49	0·38	28th	15	—	—	—	—	3	2·68	−0·42	26	− 4
a Bucklebury		409	58·6	45·6	52·1	—	66	2nd	34	25th	—	—	3·95	—	0·59	8th	18	0	0	0	0	4	—	—	—	—
a New Malden		39	60·4	45·9	53·2	—	66	1, 2, 3	35	23rd	54·2	56·2	4·70	—	1·29	2nd	16	0	1	3	7	4	2·91	—	28	—
a Croydon (Addington) ...		472	58·9	47·5	53·2	—	64	2, 4	38	23rd	—	—	4·03	—	0·85	26th	18	0	0	1	4	—	—	—	—	—
a Wallington		144	59·9	46·0	53·0	—	66	2nd	33	25th	54·2	56·3	4·08	—	0·79	26th	25	0	0	0	6	0	—	—	—	—
a Woking		180	60·6	45·1	52·9	—	67	2, 12	35	24, 25	53·9	—	4·08	—	0·61	26th	20	—	—	—	—	0	—	—	—	—
a Margate	¶§	35	59·8	49·7	54·8	+ 3·8	65	2, 4	39	23, 25	54·8	55·5	3·31	+0·51	0·63	21st	15	0	0	1	1	0	3·90	+0·48	37	+ 4
a Aldershot		231	58·2	44·5	51·4	—	64	2, 12	33	24th	—	—	4·38	—	0·85	11th	19	0	0	0	8	—	—	—	—	—
a Wisley	¶§	150	60·1	45·5	52·8	+ 4·1	67	2nd	35	23, 25	53·7	55·3	3·51	—	0·71	26th	15	0	0	1	5	5	3·35	—	32	—
a Basingstoke		289	58·6	45·8	52·2	—	65	2nd	35	[24th	53·8	54·9	4·25	—	0·81	6th	15	0	0	3	5	0	—	—	—	—
a Sevenoaks		509	58·7	47·0	52·9	—	66	2, 3	38	23rd	53·4	55·0	5·33	—	1·00	26th	19	0	0	0	1	0	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		320	60·5	45·4	53·0	—	66	2, 3, 4	36	25th	—	—	4·91	—	1·12	26th	17	0	0	1	5	3	—	—	—	—
Ramsgate		168	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·13	—	39	—
a Folkestone		121	60·1	51·6	55·9	—	66	2nd	42	24th	—	55·7	6·46	+3·16	1·18	8th	20	0	0	2	2	—	3·77	—	36	—
a Bexhill		27	60·3	51·7	56·0	—	66	3, 4	40	24th	58·0	—	5·21	—	0·91	26th	16	0	1	2	1	0	4·03	—	38	—
a Worthing	§	36	61·1	50 9	56·0	+ 5·2	66	3, 12	40	24th	55·8	57·7	4·73	+1·28	0·74	26th	19	0	0	1	0	0	3·63	—	35	—
a Bognor		20	59·6	51·0	55·3	—	64	3rd	39	24th	—	57·1	5·51	—	1·25	6th	21	0	1	3	0	—	3·65	—	35	—
a Selsey Bill		21	61·1	51·2	56·2	—	67	3rd	39	24th	—	—	5·34	—	0·89	21st	19	0	1	1	3	0	3·51	—	33	—
a Totland Bay		140	59·9	51·0	55·5	+ 4·3	64	3rd	40	24th	—	—	4·63	+0·97	0·56	20th	20	0	1	3	1	0	3·35	—	32	—
a Sandown		20	61·9	52·6	57·3	—	69	3, 12	39	24th	—	—	4·29	—	0·61	20th	22	—	—	—	—	—	3·33	—	32	—
p Bournemouth		145	60·9	48·0	54·5	—	67	3rd	37	24th	55·2	56·6	3·96	—	0·73	6th	17	—	—	—	—	—	3·86	—	37	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

MONTHLY WEATHER CHARTS, OCTOBER, 1913.

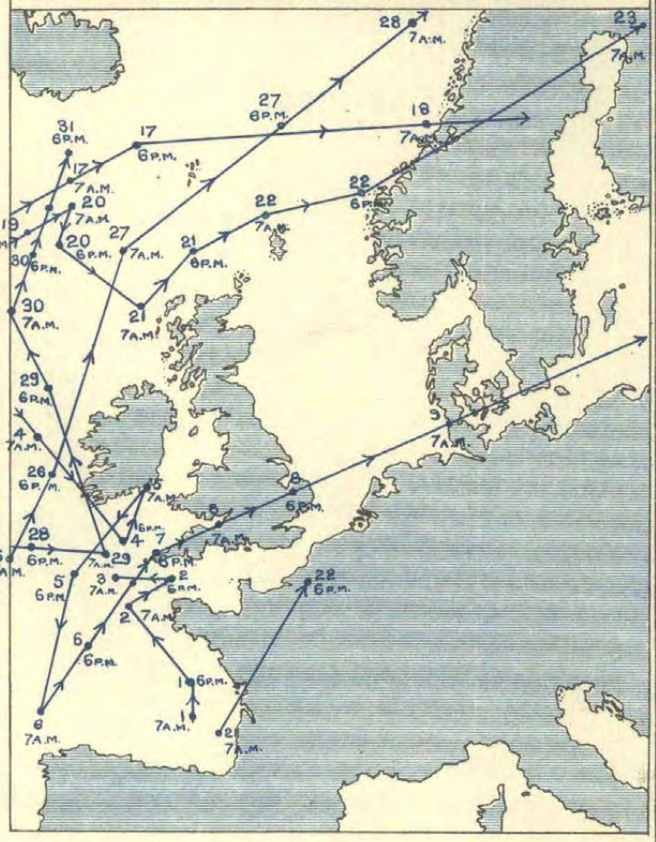
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in October, based on 35 years' observations, 1871–1905.



WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG ← 30 Obsns. = 1 Inch →

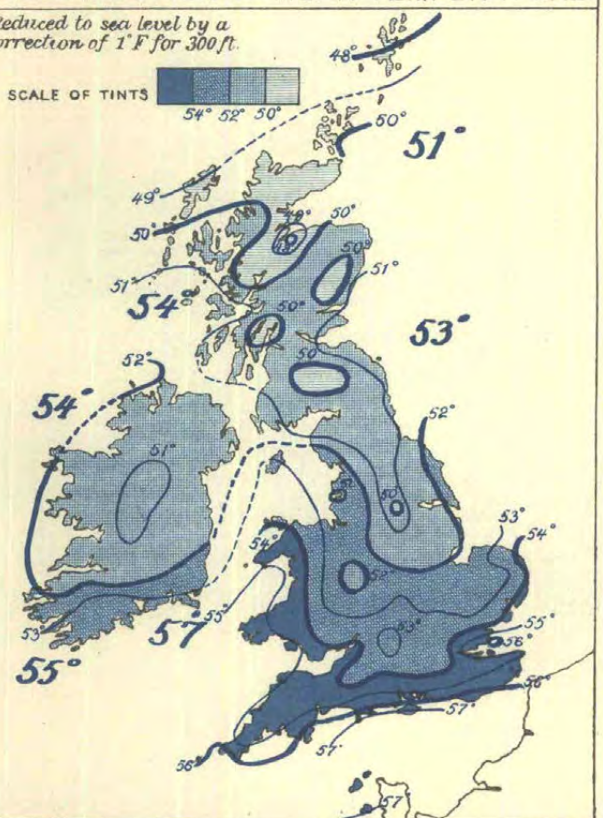
2. MOVEMENTS OF DEPRESSIONS.



3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

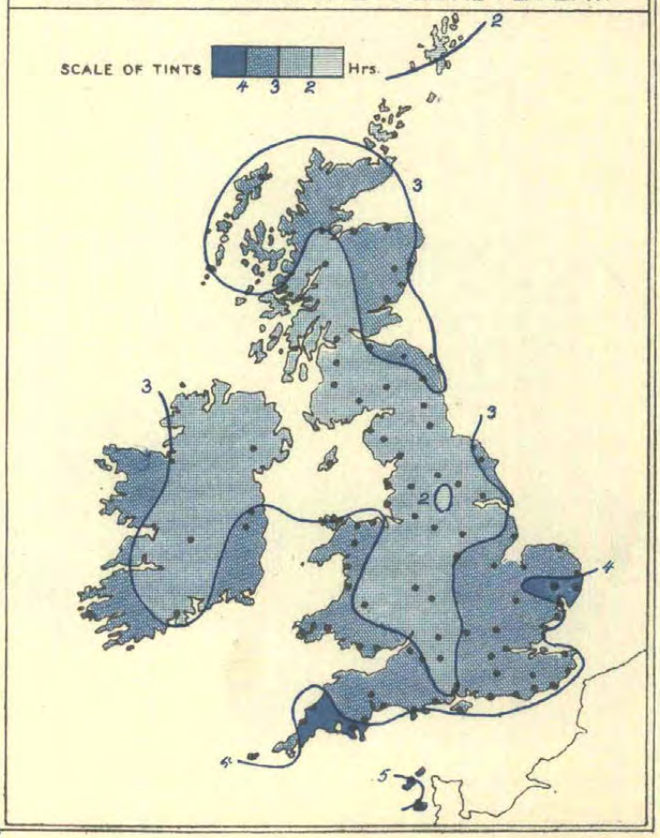
SCALE OF TINTS 54° 52° 50°



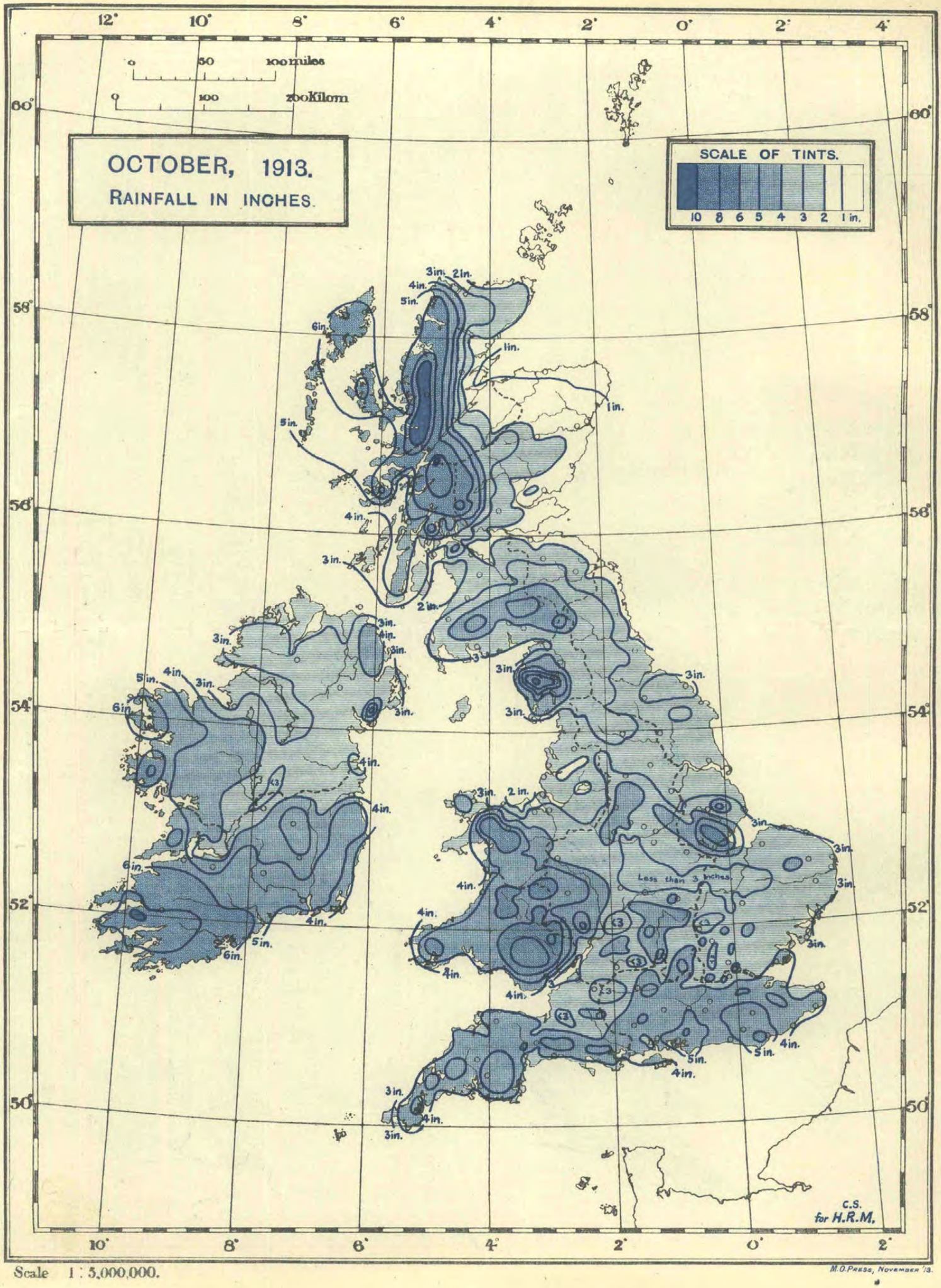
Sea temperatures are shown in large figures thus 51°

4. BRIGHT SUNSHINE. HOURS PER DAY.

SCALE OF TINTS 4 3 2 Hrs.



M.O. PRESS, NOVEMBER '13



Scale 1 : 5,000,000.

M.O. Press, November '13.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, OCTOBER, 1913.

DISTRICTS AND STATIONS	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	59·5	45·4	52·5	—	68	2nd	32	24, 25	—	55·0	3·42	—	0·76	26th	16	0	0	2	9	1	2·75	—	26	—
a Golder's Green	279	59·5	46·9	53·2	—	67	2nd	35	24, 25	—	—	3·26	—	0·69	26th	17	0	0	0	5	—	—	—	—	—
p Hampstead (Redington Rd.)	375	59·6	47·3	53·5	—	68	2nd	36	24th	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	57·2	44·8	51·0	—	64	1st	33	24th	—	—	4·41	—	1·17	13th	16	0	2	1	0	3	2·77	—	27	—
a Ardnadam	64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Thorntonhall (Lanarkshire)	440	54·3	42·1	48·2	—	64	13th	26	7th	—	—	2·20	—	0·94	13th	19	0	0	0	3	3	2·77	—	27	—
a Kilmarnock ... ¶	90	56·0	44·4	50·2	+ 2·9	62	13, 19	27	24th	—	—	1·91	—	1·01	13th	16	0	0	0	1	—	2·79	—	27	—
p Ruthwell ... ... §	67	56·7	42·5	49·6	—	62	2, 12	24	24th	—	—	3·29	—	1·05	29th	13	0	0	0	0	—	2·84	—	28	—
7. ENGLAND, N.W.																									
a Scaleby	111	56·6	44·1	50·4	—	63	17, 19, 29	27	24th	—	—	3·16	—	0·41	13th	21	0	0	1	0	—	—	—	—	—
a Seathwaite	422	56·2	45·5	50·9	—	64	1st	36	23rd	—	—	7·46	—	2·00	14th	18	0	1	1	0	—	—	—	—	—
a Carnforth	174	57·2	45·7	51·5	—	65	19th	29	24th	—	—	2·51	—	0·59	14th	17	0	0	1	4	3	2·78	—	27	—
a Lancaster	311	57·8	47·0	52·4	—	65	19th	34	24th	53·2	57·1	2·65	—	0·71	14th	14	0	0	1	0	1	2·57	—	25	—
a Hutton	81	57·0	44·9	51·0	—	64	1, 12	29	24th	52·2	53·8	1·95	—	0·42	14th	14	0	0	1	1	3	2·65	—	26	—
a Burnley	459	55·6	44·6	50·1	—	63	19th	28	24th	50·9	53·1	1·84	—	0·36	30th	15	—	—	—	—	3	2·68	—	26	—
a Leyland	124	57·3	45·7	51·5	—	64	1st	31	23rd	—	—	1·84	—	0·37	14th	16	0	0	1	1	4	2·48	—	24	—
a Bolton	341	56·6	46·4	51·5	—	64	1st	35	25th	51·1	53·4	2·21	—	0·48	14th	18	0	0	2	0	2	1·62	—	16	—
a Blundellsands	34	57·1	46·9	52·0	—	64	1st	32	25th	—	—	2·19	—	0·34	14th	17	0	0	5	1	2	—	—	—	—
a Hoylake ... ... §	30	57·0	47·0	52·0	—	65	1st	34	23rd	—	—	2·88	—	0·32	7th	17	0	0	3	1	1	2·86	—	28	—
a Rhyl	30	58·5	47·4	53·0	—	66	13th	34	23rd	—	—	1·90	−1·75	0·35	8th	18	0	0	0	0	1	3·34	—	32	—
a Colwyn Bay	82	58·1	48·7	53·4	—	68	19th	36	23rd	—	—	2·94	—	0·43	7, 28	15	0	0	0	0	—	3·07	—	29	—
a Llanberis (Pen-y-Gwryd)	913	54·7	45·4	50·1	—	65	19th	31	24th	—	—	9·78	—	1·67	14th	23	0	0	0	2	—	—	—	—	—
a Macclesfield	500	56·3	45·6	51·0	—	63	1st	34	25th	—	—	2·12	—	0·58	30th	18	—	—	—	—	—	—	—	—	—
a Northwich	117	57·4	44·4	50·9	—	66	1st	29	25th	—	—	2·46	—	0·42	7th	18	0	0	2	4	—	—	—	—	—
a Hawarden Bridge... ¶	22	57·9	46·9	52·4	+ 2·8	66	1st	33	23, 25	—	—	3·11	−0·15	0·59	29th	16	—	—	—	—	—	—	—	—	—
a Ruthin	449	56·6	47·0	51·8	—	65	19th	37	23rd	—	—	3·57	—	0·75	27th	18	0	0	1	0	—	—	—	—	—
a St. Asaph	479	—	—	—	—	—	—	—	—	—	—	2·13	—	—	—	—	—	—	—	—	—	—	—	—	—
a Welshpool	255	58·6	43·6	51·1	—	65	1, 2, 20	28	25th	—	—	4·42	—	1·73	5th	20	0	0	1	3	—	—	—	—	—
p Aberdovey ... ... §	22	59·2	50·3	54·8	—	68	19th	38	24th	—	—	3·72	—	0·89	5th	19	0	1	2	0	—	3·41	—	33	—
8. ENGLAND, S.W.																									
a Aberystwyth ... §	59	59·0	50·1	54·6	—	69	19th	36	24th	—	—	3·62	—	0·54	14th	20	0	1	2	0	—	3·52	—	34	—
a Gwernyfed	374	57·5	41·4	49·5	—	65	19th	28	24th	—	—	5·31	—	0·81	7th	21	0	0	4	10	—	—	—	—	—
a Haverfordwest	93	58·5	47·7	53·1	—	67	1st	32	24th	—	—	5·26	—	0·69	10th	19	0	1	2	2	—	3·04	—	29	—
a Tenby	64	59·7	48·4	54·1	—	67	1st	38	25th	—	—	5·06	—	0·79	7th	20	0	0	1	0	0	3·16	−0·32	30	− 3
a Swansea	24	60·6	50·6	55·6	—	68	1st	36	24th	56·1	58·4	5·26	—	0·81	7th	19	0	0	0	2	4	3·22	—	31	—
a Clifton ... ... ¶	229	59·4	48·2	53·8	+ 4·1	65	2, 19	36	18th	—	—	2·68	−1·12	0·62	6th	15	—	—	—	—	0	3·45	—	33	—
a Weston-Super-Mare ...	29	59·4	47·5	53·5	—	65	19th	37	24th	—	—	3·52	—	0·65	6th	12	0	1	4	0	5	3·44	—	33	—
a Minehead	104	60·2	47·7	54·0	—	68	12th	38	22nd	—	—	4·36	—	1·00	27th	15	0	0	0	1	0	3·43	—	33	—
a Ilfracombe	24	60·0	50·4	55·2	—	67	13th	37	24th	55·9	58·3	3·59	—	0·53	10th	19	0	0	0	0	0	3·61	—	35	—
a Bude	49	61·2	48·3	54·8	—	67	25th	38	16, 22, 24	—	—	2·71	—	0·57	11th	20	0	0	0	0	—	4·30	—	41	—
a Arlington... ... ¶	613	58·6	46·3	52·5	+ 3·3	65	25th	35	24th	—	—	4·33	−2·01	0·80	10th	15	0	0	0	0	—	—	—	—	—
a Cullompton ... ¶§	202	60·5	45·1	52·8	+ 4·0	67	3rd	31	22nd	54·5	—	5·62	+1·72	1·11	2nd	22	0	1	3	5	4	3·04	−0·02	29	0
a Rousdon	515	58·3	49·1	53·7	+ 4·0	63	25th	36	24th	56·2	57·5	3·61	+0·23	0·75	6th	21	0	0	0	0	0	3·80	—	36	—
a Sidmouth	147	60·2	49·7	55·0	—	65	25th	39	22nd	—	—	3·44	—	0·95	6th	17	0	0	3	0	2	—	—	—	—
a Exmouth	11	60·9	48·5	54·7	—	66	1st	35	24th	—	—	4·20	—	1·03	6th	19	—	—	—	—	—	3·90	—	37	—
a Killerton	160	61·0	45·5	53·3	—	69	3rd	30	22nd	—	—	3·23	—	0·64	6th	12	0	0	3	0	2	—	—	—	—
a Shaftesbury ... ¶	722	57·8	47·3	52·6	+ 3·9	64	3rd	35	24th	54·2	56·6	3·16	−0·54	0·73	6th	16	—	—	—	—	—	—	—	—	—
a Dorchester...	314	58·8	47·5	53·2	—	64	3rd	34	24th	—	—	5·02	—	2·00	6th	20	0	0	0	4	—	3·54	—	34	—
a Weymouth	21	61·6	51·4	56·5	—	67	3rd	38	24th	—	—	3·02	—	1·02	6th	16	0	0	2	0	—	4·26	—	40	—
a Torquay	12	61·0	51·3	56·2	—	66	9th	41	24th	—	—	3·68	—	0·52	30th	20	0	1	3	0	0	3·66	+0·11	35	+ 1
p Paignton	11	61·2	48·0	54·6	—	65	3, 12, 19	37	22nd	—	—	4·16	—	0·66	4, 30	20	0	1	2	2	0	3·62	—	35	—
a Salcombe	39	60·4	51·4	55·9	—	66	15th	43	16th	—	—	2·63	—	0·56	30th	19	0	0	0	0	—	4·14	—	39	—
a Tavistock	374	59·3	47·9	53·6	—	65	19th	34	22nd	—	—	4·57	—	0·92	30th	19	0	1	1	0	6	—	—	—	—
a Ashburton	583	59·9	48·9	54·4	—	65	3, 19, 20	40	22nd	—	—	5·95	0·00	0·99	2nd	21	0	0	1	1	—	—	—	—	—
a Fowey	51	61·8	51·2	56·5	—	67	2, 12, 15	37	23rd	—	—	3·50	—	0·71	6th	17	0	0	0	2	—	4·14	—	39	—
a Redruth	397	58·5	48·5	53·5	—	63	3, 13, 19	39	22nd	—	—	5·07	—	0·98	27th	19	0	0	1	2	—	—	—	—	—
a Penzance	54	60·0	52·2	56·1	—	64	4, 11	42	22nd	—	—	2·39	—	0·39	28th	20	0	0	1	2	—	3·41	—	32	—
9. IRELAND, N.																									
p Dunfanaghy	54	57·2	46·0	51·6	—	67	17th	35	22, 23	—	—	2·72	—	0·34	19th	18	0	0	0	1	—	—	—	—	—
a Lisburn	207	59·4	43·1	51·3	—	67	4th	28	24th	—	—	4·37	—	0·96	20th	14	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin) ...	67	57·7	45·2	51·5	+ 3·2	65	13, 17	27	24th	—	—	4·15	+1·29	1·18	5th	17	0	0	0	0	7	—	—	—	—
a Kingstown...	42	58·1	48·7	53·4	—	65	18th	31	24th	—	—	4·44	—	0·91	7th	13	—	—	—	—	—	3·16	—	30	—
p Clongowes Wood Col. ...	245	57·2	44·7	51·0	—	65	4th	23	24th	—	—	3·51	—	0·82	5th	20	0	0	0	2	—	3·04	—	29	—
a Mountmellick	239	56·8	44·2	50·5	—	64	4th	24	24th	—	—	5·52	—	0·90	10th	21	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow...	256	56·0	46·4	51·2	—	61	12, 18	33	24th	—	—	5·96	—	0·99	5th	19	0	0	2	0	—	—	—	—	—
a Kilkenny ... ... ¶	195	57·4	45·4	51·4	+ 2·9	64	11th	25	24th	—	—	4·70	+1·60	0·78	28th	21	0	0	0	1	—	—	—	—	—
a Cahir ... ... ¶	199	57·2	44·8	51·0	+ 2·0	63	11th	24	24th	—	—	4·39	—	0·87	27th	19	0	1	0	5	—	—	—	—	—
a Wexford	99	58·1	48·8	53·5	—	63	12th	31	24th	—	—	4·11	—	0·64	13th	19	0	1	0	1	—	—	—	—	—
a Waterford ... ... ¶	100	57·6	47·4	52·5	+ 3·3	64	3rd	29	24th	—	—	5·18	+1·26	0·83	28th	18	0	1	1	2	—	—	—	—	—
p Waterford Trg. Coll. ...	20	57·7	47·3	52·5	—	64	3rd	29	24th	—	—	5·12	—	0·87	28th	20	0	0	1	0	—	—	—	—	—
p Carrick-on-Suir	541	55·5	46·0	50·8	—	62	11th	28	24th	—	—	5·66	—	1·15	19th	25	0	0	1	2	3	2·97	—	30	—
a Foynes ... ... ¶	108	56·9	45·8	51·4	+ 2·2	64	17th	28	24th	—	—	5·16	+1·41	0·88	4, 5	19	0	0	0	1	—	—	—	—	—
a Killarney ... ... ¶	174	59·0	45·8	52·4	+ 2·1	65	11, 14, 16	26	24th	—	—	7·13	+1·75	2·12	4th	21	—	—	—	—	—	—	—	—	—
a Ballinacurra ... §	24	57·4	45·5	51·5	—	63	1st	28	24th	—	—	6·67	—	1·07	4th	24	0	1	2	0	—	2·84	—	27	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	62·1	51·5	56·8	+ 3·1	68	1, 16	44	22nd	—	—	5·35	+0·55	1·15	1st	21	0	0	1	0	—	5·36	+1 65	51	+16

DISTRICT VALUES—OCTOBER, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud, Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	68	28	54·4	43·8	48·9	+2·8	49·4	−0·1	—	—	4·60	−0·86	19	2·83	+0·39	27	+ 3	7·1	6·6	6·7	30·32	1st	28·88	29, 30
Eastern.																								
1. SCOTLAND, EAST ...	66	25	55·1	42·6	48·7	+2·8	49·9	+0·8	51·8	+0·5	1·74	−1·43	17	3·11	+0·31	30	+ 2	7·0	—	6·9	30·27	1st	29·00	29th
2. ENGLAND, N.E. ...	67	27	56·6	45·4	50·8	+2·8	51·1	0·0	53·8	+0·8	2·52	−0·42	15	2·93	−0·14	28	− 2	6·9	—	6·9	30·42	13th	29·12	29th
3. ENGLAND, EAST ...	70	26	59·1	47·1	52·9	+4·0	54·1	+0·6	55·9	−0·1	3·24	+0·52	17	3·45	+0·06	33	+ 1	7·0	6·2	5·7	30·50	13th	29·32	29th
4. MIDLAND COUNTIES	67	24	57·7	44·9	51·1	+3·3	52·1	+0·3	54·4	+0·4	3·57	+0·69	17	2·61	−0·37	25	− 3	7·3	6·6	6·6	30·43	13th	29·17	29th
5. ENGLAND, S.E. ...	69	27	60·1	48·3	54·0	+3·7	54·9	+0·9	56·5	+0·4	3·86	+0·59	18	3·43	+0·02	33	0	6·7	6·8	5·2	30·49	13th	29·27	29th
Western.																								
6. SCOTLAND, WEST ...	66	20	55·8	45·0	50·3	+2·6	50·8	—	53·1	+1·3	3·19	−1·81	18	2·75	+0·01	27	0	7·1	7·5	6·3	30·28	23rd	29·00	29th
7. ENGLAND, N.W. ...	68	25	57·0	46·5	51·6	+2·8	51·9	+0·3	54·1	+0·8	2·74	−1·23	17	2·86	+0·10	28	+ 1	6·8	7·4	6·8	30·30	16th	29·95	29th
8. ENGLAND, S.W. ...	69	28	59·1	48·1	53·4	+3·2	55·1	+0·7	57·0	+0·9	4·23	−0·31	17	3·39	+0·11	32	+ 1	6·6	6·8	5·6	30·46	13th	28·88	29th
9. IRELAND, NORTH ...	67	24	56·6	45·6	50·9	+2·8	52·7	+0·7	54·3	+0·1	3·55	−0·31	17	2·78	−0·09	27	− 1	7·0	6·7	6·6	30·36	23rd	28·80	29th
10. IRELAND, SOUTH ...	66	20	57·3	46·2	51·6	+2·1	53·8	+0·5	55·3	+0·6	5·42	+1·58	20	2·99	−0·31	29	− 3	6·9	6·9	5·6	30·32	15th	28·77	29th
11. ENGLISH CHANNEL ...	68	43	61·0	51·7	56·3	+2·6	57·1	+0·5	59·1	+0·5	4·14	+0·16	20	4·70	+0·76	44	+ 7	6·0	5·9	5·1	30·47	13th	28·84	29th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
	hr.		%	
5. ENGLAND, S.E.				
Broadstairs ...	4·25	—	41	—
Littlestone§ ...	4·11	—	39	—
Hove	3·81	—	36	—
Westbourne ...	2·93	—	28	—
LONDON.				
Bunhill Row ...	2·36	+0·30	23	+ 3
Plumstead ...	3·14	—	30	—
Richmond ...	2·80	—	27	—
8. ENGLAND, S.W.				
Port Talbot ...	3·27	—	31	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	3·75	—	0·67	21st	19
LONDON.					
South Wimbledon ...	3·57	—	0·73	26th	15
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	3·42	—	0·73	30th	18
Forest of Dean (900 ft.)	5·16	—	1·12	2nd	21

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. Local time is used except at the First Order Observatories and Telegraphic Reporting Stations where G.M.T. is used. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☧ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, November 24, 1913.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. XI. NOVEMBER, 1913. [*Price 6d.*

MILD AND WINDY, VARIABLE RAINS.

Pressure, Winds and Weather.—Throughout the month the distribution of atmospheric pressure was of a very unsettled type. One of the striking features was the persistency with which anticyclonic systems kept almost wholly to the southward of the 50th parallel, occupying the middle belt of the Atlantic, and extending eastward along the Mediterranean and Southern Europe. The United States and Russian reports show that this region of high barometer readings frequently stretched across the Southern States to the Pacific coast, and across Asia as far as China. On various days the barometer rose above 30½ in. between the Azores and the western coasts of the European Continent, and attained its highest level, above 30·6 in., over the north-west of Spain and to some distance out on the ocean. There were only a few occasions when the anticyclones expanded northward sufficiently far to embrace any considerable portion of the British Isles. The barometer did not mount to 30 in. in Shetland and the Orkneys, the highest reading in the north of Scotland being 30·15 in. at Castlebay, in the Southern Hebrides, on the 26th. At our south-western coast stations there was a reading of 30·54 in. on the 19th, a level which was just exceeded on the 28th at Newquay, 30·55 in., Valencia, 30·56 in., and Scilly, 30·57 in., the highest home records during the month.

Northward of this vast high pressure area was an extensive basin of low pressure, in which there was an endless succession of secondary depressions, apparently circulating round the polar region, with their paths of progression generally between east and north. Most of those that exercised any influence on the weather conditions over the United Kingdom traversed the north-east quarter of the Atlantic, either across Iceland or the immediate vicinity, and passed on to the Arctic Sea. All of them were very deep, the barometer often below 29 in., as low as 28 in. on the 25th, 28·2 in. on the 1st, and below 28½ in. on the 14th, 17th, 23rd and 27th. These systems were so extensive that their southern sections swept across this country. The few depressions that visited our shores were not nearly so deep. A disturbance approaching the north-west of Ireland on the evening of the 5th was in the filling-up stage, and after moving across the country it dispersed on the upper part of the North Sea on the evening of the 7th. At this time a cyclonic system of considerable depth was located in mid-ocean, on about the 50th parallel, the barometer descending below 28¾ in. on the 8th. Its eastward progress was very slow, its centre reaching the 15th meridian on the evening of the 10th. Then, suddenly changing its course to the northward, it was off the Hebrides by the morning of the 12th. Another sudden change of course and it moved eastward to the North Sea, where it died out next day. When it passed over Aberdeen the barometer dropped to 28·92 in. The lowest pressure at the home stations during the month occurred at Lerwick on the 14th, but the centre of the disturbance was then on Denmark Strait, between Greenland and Iceland. The only other disturbances crossing these islands were "V"-shaped secondaries thrown off from the large primary systems about Iceland, the principal ones being those of the 4th–6th, 21st and 22nd, and 23rd and 24th.

For the entire month the mean pressure results afford a good representation of the general distribution on most days. They indicate a depression centred off the south of Iceland, where the barometer was as low as 29·14 in., and an anticyclone centred from the Azores to Southern Portugal, with the barometer above 30·25 in. Over the British Isles the range of 0·57 in. from 29·45 in. at Lerwick to 30·02 in. at Jersey, the resultant gradient was unusually great, the normal range between these stations being 0·22 in. On the western half of the Channel, in the immediate neighbourhood of the persistent anticyclones, the mean values were rather above the normal, by 0·05 in. at Jersey, and 0·01 in. at Scilly, but elsewhere they were under the normal, the deficiency increasing northward to as much as 0·25 in. at Wick, and 0·30 in. at Lerwick. As will be seen from Map 1, p. cxv., the isobars show a decided South-Westerly type, and as an indication of the overwhelming prevalence of this type the wind all over the kingdom was nearly always from points between South and West.

Under the influence of the numerous and deep disturbances the month was a very windy one, there being only two days on which the force of a strong breeze was not exceeded, while a gale (force 8) was felt at one or more stations on as many as 27 days, and of these there were 18 days on which a strong gale (force 9) was reported. A depression whose centre passed the Faröe on the 3rd caused boisterous weather very generally during the first three days, a strong gale as far south as Pembroke and Portland Bill, a whole gale (force 10) at Holyhead. Anemometrical records showed gust velocities of 61 miles per hour at Pendennis, 63 miles at Hexham, 66 miles at Southport, and 75 miles at Holyhead. After the subsidence of this gale there was comparative quietness for a week. Then the appearance of a depression beyond the Kerry coast started another disturbed spell, which was maintained through the rest of the month, the force of a strong gale being attained on as many as 15 out of 20 days. Holyhead experienced a whole gale on the 13th from North-West, and on the 15th from West, when the anemometer at Southport registered a gust velocity of 79 miles an hour during a strong gale. The most widespread gale of the month blew on the 19th and 20th, while the cyclonic centre was passing eastward between Southern Iceland and the Faröe, the gale being felt as far south as the English Channel. At Blacksod, Malin Head, Glasgow, Hexham and Lerwick it was a strong gale, and at Southport a whole gale, the highest gust velocities being 74 miles an hour at Southport, and 83 miles at Hexham. Another instance of a whole gale occurred at Malin Head on the 23rd, when the depression was centred over Denmark Strait.

The weather accompanying the frequent disturbances was of an exceedingly variable character. Excepting in some eastern localities the rainfall frequency was high, but as a general rule the intensity, as evidenced by falls of more than an inch in a day at low level stations, was less than usual. The prevalence of bright sunshine was more striking than the rainfall intensity. In the lowland districts of England there were a few instances of just over an inch of rain on the 11th, 12th and 21st, those of the first two of these days being when thunderstorms were prevalent over the southern and eastern counties, the rain being accompanied by hail in many places. On the other hand the hilly regions in the west and north-west were visited by several very heavy rainstorms. Round Snowdon the measurements for the 12th were from 2·9 in. to more than 3¼ in., and for the 17th they ranged up to 2·1 in. For the 19th they were short of 2 in. in Snowdonia, while in Western Scotland they were up to 2 in. at Glencarron, and 2·2 in. at Arisaig. Wales had a number of great downpours on the 20th, with records from 2·4 in. to 3·6 in., and, further south, Princetown, Dartmoor, had 2·2 in. Ireland had falls up to 2 in. at Enniscoe on the 23rd; and in Western Scotland, on the 28th, Glencarron registered 2·3 in., and Loch Stack 3·3 in. Throughout the month there were only a few casual references to snow.

The month was remarkable for its almost uniform mildness in all parts of the kingdom. Speaking generally, the afternoon temperatures were in the fifties, and the night minima in the forties. Now and again there was a day reading above 60° in isolated situations, 64° at Oundle on the 4th, 65° at Tavistock on the 12th, and at Ashburton on the 29th. The lowest of the maxima occurred on the 8th, when Strathpeffer and Thorntonhall did not exceed 39°. At very numerous stations there was no frost, and at the others the only frosts of note were betweeu the 6th and the 9th and on the 23rd, the shade temperature sinking below 27°, to 22° at Balmoral and Braemar on the 6th, and Raunds on the 23rd, when Wokingham touched 21°. There were, however, many night minima above 50°, Teignmouth not passing below 55°, and Penzance 56° in the night of the 9th–10th. The mean temperature exceeded the normal by from 2° in the Channel Islands to 4° in Eastern England. Observers noted roses, wallflowers, primroses, dandelion in flower at Belper; strawberries in flower at Wallington; the only November in 36 years without frost in the screen at Meltham; the finest in 32 years records at Isleworth; and so on.

Several observers report magnificent glows at sunrise and sunset, especially from the 27th to the 30th.

Aurora was visible at Baltasound on the 2nd, and at Castlebay on the 8th.

Fog was uncommonly rare for the season over the inland districts, rather frequent on the western and eastern coasts, seldom on the south coast.

The temperature of the coastal sea water was decreasing everywhere, from 4° to 6° colder than during October in several neighbourhoods, but it was warmer than the air on shore, by as much as as 3° to 5° in many places.

Rainfall.—There was a deficiency of precipitation over Eastern Scotland, and the Eastern and Midland districts of England, an excess over the rest of the kingdom. Durham had only 42 per cent. of the normal, Alnwick 49, Whitby 51, and Morpeth 52, against 172 at Fort Augustus, 174 at Llangammarch Wells, 175 at Fort William, and 203 per cent. at Glencarron. The smallest aggregates were 0·9 in. at Crathes, and an inch at Chatteris, but many hill stations exceeded 10 in., from 20 in. to 23½ in. on the slopes of Snowdon, and 37¼ in. on Loch Quoich. Tottenham had rain on 11 days only, Clacton and Wisley on 12, and a few other stations on 13 or 14 days, but at many stations the frequency exceeded 25 days, several 29 days, Lerwick and Valencia Island 30 days.

Bright Sunshine. — A few stations, principally in the western districts, returned a loss of sunshine, but as a rule the records were very good. Valencia had only 56 per cent. of the average, Woolacombe 78, and Deerness 79, but Torquay had 143, Cirencester 144, Oxford and Cambridge 154, and Rothamsted 155 per cent.

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TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.		Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
			Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands	*a* Castlebay	7, 1, 9	48	9·508	−·230	9·572	51·0	44·6	47·8	+3·2	54	16th	39	16, 19, 26	—	—	48·2	49·4	48·5	2·3	2·4	2·5	·281	·293	·280	84	84	82
	p Deerness ... §	9, −, 9	163	9·327	—	9·499	48·7	41·6	45·2	+2·8	53	29th	36	26th	—	—	45·3	—	45·1	1·7	—	2·1	·268	—	·257	88	—	85
	a Lerwick ... ¶	7, 1, 9	59	9·385	−·303	9·449	49·2	42·5	45·9	+3·6	52	2, 17, 29	37	22, 26, 30	—	—	46·5	47·7	45·8	2·2	2·6	2·2	·266	·269	·259	84	82	84
	a Stornoway ... ¶§	7, 1, 9	52	9·481	−·234	9·531	49·5	40·1	44·8	+2·5	54	25th	35	22nd	—	—	44·6	46·9	45·3	1·3	1·6	1·8	·265	·283	·261	90	89	87
Mainland	*a* Wick ... ¶	7, 1, 9	94	9·423	−·252	9·530	49·3	39·2	44·3	+2·6	56	27th	31	6, 8	—	—	44·3	47·1	44·9	0·5	1·0	0·7	·279	·300	·281	96	93	95
	p Strathpeffer ¶§	9, −, 9	210	9·333	—	9·555	49·8	37·8	43·8	+3·4	56	17,25,29	28	6th	—	—	42·4	—	43·2	1·9	—	2·7	·231	—	·223	86	—	80
	a Glencarron § ¶	9, −, 9	504	9·029	—	9·569	48·1	38·4	43·3	+2·6	54	23rd	32	9th	—	—	43·1	—	42·8	1·5	—	2·2	·246	—	·229	88	—	83
	p Ft. Augustus § ¶§	9, −, 9	73	9·520	—	9·593	49·2	39·3	44·3	+2·5	55	17th	30	8, 9	—	—	43·2	—	44·3	0·9	—	1·2	·260	—	·263	92	—	91
	p Ft. William § ¶	9, −, 9	38	9·581	—	9·618	49·2	40·1	44·7	+2·0	54	17th	30	8th	—	—	44·3	—	44·5	1·8	—	2·2	·256	—	·250	87	—	84
	p Kingussie ... §	9, −, 9	828	8·726	—	9·623	47·7	36·9	42·3	—	54	17th	25	6th	—	—	41·7	—	42·4	2·1	—	2·3	·221	—	·223	85	—	83
	p Dunrobin ... §	9, −, 9	16	9·513	—	9·526	50·7	38·9	44·8	+2·6	57	28th	34	9th	45·0	—	44·5	—	45·5	1·5	—	1·7	·259	—	·266	88	—	88
1. SCOTLAND, E.																											
	a Nairn ... ¶§	7, 1, 6	82	9·477	−·232	9·569	49·0	37·4	43·2	+2·2	56	17, 29	27	6, 7	—	—	42·5	47·1	44·5	1·9	2·7	2·2	·232	·261	·244	85	81	83
	p Gordon Castle § ¶	9, −, 9	107	9·462	—	9·576	50·9	38·0	44·5	+2·5	58	27th	29	6th	—	—	44·2	—	44·1	2·2	—	2·2	·242	—	·241	83	—	82
	Aberdeen ... ¶§	9, 3, 9	88	9·514	−·227	9·612	50·0	41·1	45·6	+3·7	58	17th	30	6th	—	47·4	44·7	48·0	46·1	2·5	3·4	2·7	·245	·260	·255	82	77	81
				9·516	−·226	9·613			45·9	+3·7																		
	a Balmoral ... § ¶	9, 3, −	927	8·622	—	9·628	48·7	35·4	42·1	—	56	28th	22	6th	—	—	40·2	46·8	—	2·0	—	—	·209	—	—	85	—	—
	p Braemar ... §	9, −, 9	1114	8·434	—	9·628	46·5	35·8	41·2	+3·0	54	27th	22	6th	—	—	40·5	—	41·3	2·2	—	2·0	·208	—	·219	82	—	84
	p Dundee ... §	9, −, 9	164	9·484	—	9·660	49·7	39·6	44·7	+3·5	58	26th	28	8th	—	—	43·4	—	44·2	1·3	—	1·4	·253	—	·259	90	—	89
	p Crieff ... § ¶	9, −, 9	436	9·187	—	9·657	49·4	38·8	44·1	+3·1	56	27th	29	8th	—	—	43·7	—	43·9	2·1	—	1·8	·240	—	·247	84	—	86
	a Leith ... ¶	7, −, 6	37	9·612	−·196	9·654	51·0	41·2	46·1	+3·0	57	17th	30	8th	—	—	45·4	—	47·4	2·4	—	2·9	·249	—	·260	83	—	81
	p West Linton S ¶	9, 3, 9	805	—	—	—	48·2	36·0	42·1	+1·8	56	27th	24	8th	—	—	41·8	—	—	1·5	—	—	·234	—	—	88	—	—
	p Marchmont § ¶§	9, −, 9	500	9·154	—	9·693	49·6	38·3	44·0	+3·4	57	17th	28	8th	42·7	—	43·8	—	43·2	2·1	—	1·6	·241	—	·245	84	—	88
2. ENGLAND, N.E.																											
	p Whitby	9, −, 9	158	9·583	—	9·747	52·5	41·3	46·9	+2·7	59	2nd	34	8, 23	—	—	48·4	—	45·6	2·7	—	1·9	·280	—	·266	81	—	86
	p Cockle Park §	9, −, 9	331	9·363	—	9·718	50·0	39·4	44·7	—	56	17th	32	6, 8, 23	42·6	46·6	44·3	—	44·6	1·8	—	1·9	·255	—	·256	87	—	86
	a Shields ... ¶	7, −, 6	117	9·606	−·142	9·731	51·5	41·5	46·5	+3·4	58	2, 17	35	8, 9, 24	—	—	45·2	—	47·1	2·0	—	2·5	·255	—	·265	85	—	82
North	*p* Durham ... ¶§	9, −, 9	352	9·368	—	9·746	50·8	39·6	45·2	+3·6	58	17th	29	8th	—	—	44·3	—	44·9	1·5	—	1·6	·263	—	·266	89	—	88
	p Rounton ... ¶	9, −, 9	245	9·491	—	9·753	51·3	39·4	45·4	+3·7	57	1, 2, 17	30	8th	45·0	—	44·5	—	44·9	1·3	—	1·6	·264	—	·261	90	—	88
	p Scarborough ¶§	9, −, 9	127	9·643	—	9·766	51·5	41·7	46·6	+3·0	58	29th	35	6, 23, 24	—	*50·5	46·0	—	45·9	1·7	—	1·8	·273	—	·268	86	—	86
	p York ... ¶§	9, −, 9	53	9·754	—	9·804	52·0	41·8	46·9	+4·3	58	17th	31	9, 23	46·6	49·9	45·6	—	46·6	1·8	—	2·1	·266	—	·269	87	—	86
South	*a* Spurn Head ¶	7, 1, 6	28	9·769	−·098	9·799	51·3	42·6	47·0	+2·8	57	1, 2	37	23, 24	—	—	46·6	50·4	48·9	1·2	2·2	1·8	·290	·310	·302	92	85	88
	a Lincoln ... ¶	9, −, −	42	9·804	—	9·839	52·0	40·6	46·3	+4·2	58	17th	31	23rd	45·0	50·0	45·6	—	—	1·3	—	—	·281	—	—	90	—	—
	a Skegness ... §	9, −, −	16	9·823	—	9·831	52·5	39·3	45·9	—	59	2, 13	30	23rd	—	—	46·9	—	—	1·4	—	—	·288	—	—	91	—	—
	p Hull	9, −, 9	12	9·813	—	9·818	52·0	41·8	46·9	+4·5	58	2, 17	33	10th	44·7	50·1	46·6	—	47·1	2·2	—	2·0	·267	—	·276	85	—	86
3. ENGLAND, E.																											
	p Lowestoft	9, 3, 9	77	9·806	—	9·889	53·4	42·9	48·2	+3·9	59	17th	36	22, 23	47·4	51·5	50·1	50·5	47·5	1·9	2·6	1·6	·317	·304	·294	87	82	89
	p Cromer ... ¶§	9, −, 9	139	9·703	—	9·848	52·9	42·8	47·9	—	58	2, 17	35	23rd	—	—	46·6	—	46·3	1·1	—	1·0	·292	—	·290	93	—	93
North	*p* Lit. Massingham ¶§	9, 3, 9	280	—	—	—	51·6	40·4	46·0	+3·7	56	2, 17	33	23rd	—	—	45·1	48·9	45·4	1·0	1·9	1·0	·276	·299	·281	92	87	93
	a Yarmouth ... ¶	7, 1, 9	27	9·846	−·046	9·870	52·9	41·9	47·4	+3·7	58	2, 17	33	8th	47·7	51·5	46·5	51·5	48·0	0·7	2·4	1·0	·300	·319	·309	95	84	93
	p Geldeston ... ¶§	9, −, 9	47	9·836	—	9·879	54·2	41·5	47·9	+4·4	60	17th	26	23rd	—	—	46·5	—	46·5	1·0	—	1·0	·293	—	·293	93	—	93
South	*p* Cambridge... ¶§	9, −, 9	43	9·836	—	9·875	54·3	40·0	47·2	+4·6	60	2, 17	25	23rd	46·8	51·3	45·8	—	46·0	1·2	—	1·4	·287	—	·285	92	—	90
	a Clacton ... ¶§	7, 1, 9	54	9·840	−·027	9·901	53·1	43·2	48·2	+4·0	58	2nd	38	23rd	49·5	53·1	47·8	51·7	48·6	1·5	1·8	1·7	·296	·313	·302	89	81	88
	p Woburn	9, −, 9	294	9·596	—	9·912	53·0	40·0	46·5	—	58	2, 11	24	23rd	—	—	46·5	51·4	46·5	1·4	—	1·5	·279	—	·285	90	—	89
	p Bennington ...	9, 3, 9	411	—	—	—	53·1	40·5	46·8	+4·4	59	2, 28	29	23rd	47·5	50·5	45·9	49·7	45·9	1·2	2·6	1·0	·286	·296	·291	91	83	92
	p Berkhamsted ...	9, −, 9	397	9·487	—	9·915	53·6	39·8	46·7	+4·3	59	2nd	25	23rd	47·1	—	45·2	—	46·2	1·1	—	1·3	·283	—	·286	92	—	90
4. MIDLAND COUNTIES.																											
	a Garforth	9, −, 9	198	—	—	—	51·4	39·2	45·3	—	57	17th	25	23rd	46·2	48·8	45·6	—	45·6	1·8	—	1·7	·268	—	·272	88	—	88
	p Huddersfield ...	9, 3, 9	411	9·350	—	9·797	51·0	41·5	46·3	—	56	18th	34	8, 9	44·7	49·1	45·0	48·4	46·0	1·6	2·5	1·6	·267	·284	·277	89	83	89
	p Sheffield ... §	9, −, 9	450	9·332	—	9·816	51·9	42·2	47·1	+3·7	57	2nd	30	23rd	46·2	49·5	46·6	—	46·8	2·3	—	2·1	·268	—	·276	84	—	85
	a Worksop	9, −, 9	67	9·761	−·094	9·827	53·3	39·8	46·6	+4·2	58	2, 17	28	23rd	45·7	48·8	45·4	50·0	—	1·4	2·8	—	·271	·291	—	90	81	—
East	*p* Buxton	9, 3, 9	997	8·762	—	9·846	48·6	38·9	43·8	+3·6	59	4th	29	9, 23	45·3	49·4	44·1	46·2	42·6	1·3	1·7	1·6	·260	·274	·238	89	89	87
	p Belvoir Castle ...	9, −, 9	276	9·568	—	9·864	52·1	40·5	46·3	+3·8	57	2, 11, 17	29	23rd	46·6	50·3	44·7	—	45·9	1·4	—	1·8	·264	—	·268	89	—	88
	a Coventry	9, −, −	309	9·546	—	9·874	52·9	40·1	46·5	+3·6	58	17th	27	23rd	46·7	51·4	45·8	—	—	1·5	—	—	·274	—	—	89	—	—
	a Thrapston	9, 3, −	251	—	—	—	52·4	37·8	45·1	—	58	2, 17	26	23rd	—	—	44·5	50·5	—	1·0	2·9	—	·271	·295	—	92	81	—
	a Nottingham ¶§	7, 1, 9	85	9·753	−·083	9·849	52·7	38·3	45·5	+3·0	57	2, 17, 18	26	23rd	45·0	49·0	44·0	50·9	46·7	0·6	2·1	1·1	·274	·320	·293	95	87	92
	p Birmingham ¶§	9, −, 9	542	9·288	—	9·873	51·8	41·5	46·7	+4·0	57	2, 27	31	23rd	46·6	50·1	43·7	—	46·4	1·3	—	2·1	·256	—	·271	90	—	85
	p Oxford ... ¶§	8, −, 8	212	—	—	—	53·7	42·2	48·0	+4·8	59	2, 11	25	23rd	—	—	—	—	—	—	—	—	—	—	—	—	—	—
				9·679	−·046				48·1											2·1			·284			85		
West	*a* Bath ... ¶§	7, −, 6	84	9·828	−·013	9·927	55·3	40·5	47·9	+3·2	61	10th	26	23rd	48·9	52·7	45·8	—	49·7	1·6	—	2·4	·272	—	·297	89	—	84
	p Shrewsbury ¶	9, −, 9	212	9·628	—	9·851	54·1	40·4	47·3	+4·0	60	2nd	27	9th	—	—	46·1	—	47·0	1·5	—	1·5	·283	—	·292	90	—	89
	p Wistanstow ...	9, −, 9	484	9·328	—	9·849	53·1	39·6	46·4	—	59	21st	28	9th	—	—	45·8	—	45·6	0·8	—	0·4	·289	—	·296	94	—	97
	p Bromyard	9, −, 9	400	9·438	—	9·867	52·7	39·2	46·0	—	59	27th	25	23rd	45·5	49·9	45·1	—	45·1	1·6	—	1·3	·270	—	·276	88	—	89
	p Cheltenham ...	9, −, 9	206	9·685	—	9·902	53·6	42·4	48·0	+4·8	58	10, 26	33	22, 23	—	—	48·5	—	48·3	1·7	—	1·1	·299	—	·311	88	—	92
5. ENGLAND, S.E.																											
	p Reading	9, −, 9	264	9·630	—	9·911	54·0	40·2	47·1	—	58	1, 11, 17	25	23rd	—	—	45·3	—	47·2	0·6	—	0·8	·289	—	·305	96	—	95
	p Salisbury(Wilton)¶	9, −, 9	186	—	—	—	54·2	38·8	46·5	+3·7	61	2nd	25	23rd	48·2	—	46·0	—	46·6	1·1	—	1·2	·285	—	·290	92	—	92
	a Grayshott	9, 2, −	659	9·219	—	9·939	52·0	40·9	46·5	—	57	2, 10, 11	34	23rd	47·2	—	45·8	50·6	—	0·7	2·8	—	·291	·298	—	95	81	—
	a Midhurst	9, 2, −	453	9·397	—	9·934	52·5	42·0	47·3	—	58	2, 17	36	23, 27	—	—	47·1	50·9	—	1·1	2·8	—	·301	·304	—	92	81	—
	a Brighton	9, −, −	48	—	—	—	54·5	45·1	49·8	+4·0	59	11th	36	23rd	—	53·6	—	—	—	—	—	—	—	—	—	—	—	—
	a Portsmouth ...	9, −, −	18	9·941	—	9·951	55·3	44·5	49·9	+4·5	61	11th	33	23rd	50·6	53·8	50·8	—	—	1·4	—	—	·336	—	—	90	—	—
	p Eastbourne §	9, −, 9	36	9·912	—	9·956	55·9	45·6	50·8	+5·9	62	1, 11	36	23rd	51·5	54·5	51·1	—	50·8	2·3	—	1·9	·322	—	·327	85	—	87
	a Dover	7, −, 6	234	9·668	−·017	9·921	53·9	43·5	48·7	—	59	29th	38	27th	50·2	53·3	48·2	—	49·1	0·7	—	1·1	·320	—	·321	96	—	92
	a Dungeness... ¶	7, 1, 6	21	9·908	−·008	9·933	54·7	44·1	49·4	+4·0	59	11th	36	27, 28	—	—	49·5	53·6	51·5	1·3	2·4	1·8	·320	·344	·334	90	83	88
	p Hastings ... ¶	9, −, 9	174	9·758	—	9·939	54·5	44·7	49·6	+4·3	60	11th	38	19th	49·6	53·3	49·4	—	49·3	1·9	—	1·7	·305	—	·308	88	—	88
	p Southampton ¶§	9, −, 9	84	9·860	—	9·944	54·9	43·3	49·1	+4·2	60	11th	29	23rd	—	—	48·3	—	48·8	1·4	—	1·6	·309	—	·310	90	—	89
	a Ventnor ... ¶§	9, 3, −	80	9·846	—	9·923	55·4	47·0	51·2	+3·8	59	2, 10, 11	40	22nd	—	—	51·6	53·2	—	2·3	3·1	—	·323	·323	—	84	80	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 8 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of NOVEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER, No. of Days of									WIND.									STATIONS.
				Mean Amount.					Most in a day.											No. of Observations reduced to a total of 90 for the month.									
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more).	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Force (0-12). Forces 4-7.	Force (0-12). Calm.	Direction. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
0·67	—	9	—	8·0	8·0	7·7	4·50	—	0·60	23rd	28	26	0	—	9	0	0	14	0	—	7	67	1	1	1	4	11	11	22	31	8	Castlebay.
1·00	−0·27	13	− 4	7·0	—	6·5	5·35	+1·39	0·47	25, 30	24	22	0	0	2	2	0	11	0	—	3	60	5	4	2	0	7	24	20	22	6	Deerness.
—	—	—	—	7·8	7·7	7·5	7·04	—	0·77	17th	30	27	0	—	7	0	0	16	0	—	11	37	3	2	0	0	14	24	26	16	5	Lerwick.
1·19	−0·21	16	− 2	7·0	7·6	7·0	6·66	+1·25	0·84	19th	29	24	0	—	2	0	1	11	0	—	18	55	2	2	1	0	4	19	36	16	10	Stornoway.
—	—	—	—	6·6	6·4	6·3	3·10	+0·26	0·31	18th	22	20	0	—	2	0	0	2	0	—	7	47	0	0	0	0	4	25	27	21	13	Wick.
1·74	+0·31	22	+ 4	6·9	—	5·8	3·80	+0·86	0·49	20th	20	19	1	0	0	0	1	9	2	—	1	30	27	1	0	0	0	8	27	15	12	Strathpeffer.
—	—	—	—	9·1	—	7·8	18·40	+9·35	2·27	28th	24	23	0	0	0	1	0	22	1	—	3	45	0	12	0	12	0	2	0	64	0	Glencarron.
1·03	+0·33	13	+ 4	9·0	—	8·0	7·32	+3·06	1·20	2nd	26	23	0	0	0	0	0	18	1	—	2	29	1	8	3	0	0	0	68	7	3	F. Augustus.
—	—	—	—	9·0	—	7·8	14·38	+6·16	1·83	19th	25	25	0	0	0	0	0	19	1	—	—	29	20	0	0	3	1	4	54	6	2	Ft. William.
—	—	—	—	8·3	—	7·7	3·41	—	0·42	3rd	23	18	0	0	0	0	1	17	0	—	3	36	18	0	1	0	0	2	18	44	7	Kingussie.
—	—	—	—	5·7	—	7·2	4·00	+0·80	0·48	30th	18	17	0	0	0	0	1	10	0	—	2	12	24	2	3	3	1	4	11	35	7	Dunrobin.
1·96	—	25	—	7·7	7·0	7·7	2·12	−0·09	0·33	20th	21	16	1	—	0	0	0	10	2	—	9	22	24	0	0	0	0	2	18	43	3	Nairn.
2·46	—	32	—	6·3	—	6·8	1·81	−1·11	0·41	6th	17	14	0	0	0	1	2	9	0	—	0	21	0	0	2	0	18	12	45	12	1	Gordon C.
2·04	+0·21	26	+ 3	5·9	5·6	6·2	1·76	−1·46	0·49	6th	17	12	0	0	0	0	4	7	1	—	0	22	9	0	0	0	6	22	26	19	8	Aberdeen.
—	—	—	—	6·8	—	—	1·94	—	0·30	25th	18	14	1	1	0	0	4	11	0	11	6	12	0	6	0	0	3	9	9	42	21	Balmoral.
—	—	—	—	6·2	—	—	2·21	−1·65	0·27	2nd	20	18	1	1	0	0	1	8	0	11	2	27	0	0	3	0	3	6	69	9	0	Braemar.
—	—	—	—	8·1	—	8·9	1·79	−0·97	0·53	2nd	20	12	0	0	0	0	0	19	3	—	5	26	0	2	3	1	6	2	54	10	12	Dundee.
—	—	—	—	8·1	—	7·6	4·31	−0·09	0·73	2nd	21	17	1	0	0	1	0	14	0	—	5	27	0	8	0	18	3	0	7	47	7	Crieff.
—	—	—	—	7·5	—	7·2	1·62	−0·55	0·27	15th	16	13	0	—	0	0	0	14	3	—	1	21	2	0	2	4	11	6	34	28	3	Leith.
1·51	—	19	—	7·0	—	—	3·67	—	0·50	15th	26	21	0	0	1	0	1	13	0	?	—	—	—	—	—	—	—	—	—	—	—	West Linton.
1·78	+0·08	22	+ 1	7·2	—	4·0	1·95	−1·52	0·28	10th	19	15	0	0	0	0	4	8	0	7	0	25	0	2	6	4	8	6	10	44	10	Marchmont.
2·52	—	30	—	6·5	—	6·3	1·36	−1·32	0·36	10th	17	12	0	0	0	0	0	6	0	—	5	30	9	2	0	0	6	9	30	31	3	Whitby.
2·87	—	35	—	6·3	—	6·2	1·57	−1·45	0·27	10th	21	11	0	0	0	0	1	6	0	5	7	32	0	0	0	2	4	9	13	54	8	Cockle Park.
—	—	—	—	7·9	—	7·5	1·62	−0·82	0·27	10th	21	12	0	—	0	0	0	18	3	—	0	17	3	0	0	0	5	24	39	19	0	Shields.
2·19	+0·42	27	+ 5	7·7	—	6·9	1·17	−1·63	0·30	20th	16	10	0	0	0	0	1	14	3	7	1	36	12	2	0	3	0	19	27	27	0	Durham.
—	—	—	—	7·3	—	6·8	1·99	−0·46	0·69	20th	21	12	0	0	0	0	1	10	3	13	1	27	7	0	0	0	6	20	34	8	15	Rounton.
2·35	—	28	—	7·4	—	7·3	1·84	−1·03	0·55	10th	22	15	0	0	0	0	0	11	1	—	0	33	0	0	0	0	6	2	48	9	25	Scarborough
1·22	−0·08	15	− 1	6·0	—	6·4	2·09	−0·17	0·31	10, 15	22	16	0	0	0	0	3	9	4	—	0	5	0	0	0	0	4	25	11	42	8	York.
2·30	—	27	—	6·5	6·7	5·7	2·08	+0·12	0·58	10th	18	12	0	—	0	0	1	4	0	—	3	62	0	1	0	0	4	17	27	31	10	Spurn Head.
—	—	—	—	5·4	—	4·1	1·83	−0·19	0·40	10th	17	11	0	0	0	0	6	5	0	—	0	18	3	0	0	2	7	2	24	49	3	Lincoln.
2·89	—	34	—	6·2	—	—	1·55	—	0·35	13th	20	14	0	0	0	0	8	14	1	—	0	54	0	0	0	0	6	18	57	6	3	Skegness.
1·39	—	17	—	6·7	—	5·9	2·17	−0·17	0·48	10th	22	14	0	0	0	0	4	11	4	6	1	3	13	2	0	0	2	9	49	9	6	Hull.
3·02	—	35	—	5·5	5·5	5·0	1·80	−0·75	0·42	11th	17	10	0	0	0	1	5	5	0	1	0	33	0	2	0	1	6	11	32	30	8	Lowestoft.
2·81	—	33	—	7·5	—	6·5	1·69	—	0·36	13th	22	13	0	0	0	0	1	13	1	—	0	44	0	0	0	2	12	25	23	25	3	Cromer.
2·50	+0·67	29	+ 7	6·3	5·8	6·3	2·19	−0·48	0·98	13th	21	12	0	0	1	0	3	10	1	7	1	29	1	1	0	0	3	16	42	20	7	L. Mas'gh'm.
2·82	—	33	—	5·9	6·1	5·7	1·82	−0·88	0·43	11th	14	11	0	—	0	2	0	3	2	—	0	10	0	0	0	1	7	13	35	30	4	Yarmouth.
2·93	+0·83	34	+ 9	6·6	—	4·8	1·96	−0·58	0·52	11th	21	13	0	0	0	1	5	7	6	—	0	0	3	0	0	6	6	13	26	32	4	Geldeston.
3·08	+1·08	36	+13	6·6	—	4·8	1·72	−0·34	0·41	13th	15	11	0	0	0	0	5	9	3	7	0	8	15	0	0	0	12	18	34	9	2	Cambridge.
2·95	—	34	—	7·7	6·4	6·8	2·20	—	0·53	11th	12	8	0	—	0	0	0	8	0	0	0	29	0	0	0	3	10	10	32	25	10	Clacton.
2·91	—	34	—	6·6	—	4·5	2·32	—	0·40	10th	19	11	0	0	0	1	4	7	1	—	1	35	12	2	0	0	7	9	36	19	5	Woburn.
3·17	—	37	—	6·9	6·5	5·6	2·46	−0·06	0·49	13th	16	10	0	0	0	1	1	9	5	9	0	2	17	0	0	0	2	8	29	29	5	Bennington.
2·83	—	33	—	7·3	—	5·6	3·03	+0·11	0·64	12th	19	13	0	0	0	1	4	10	3	12	0	3	16	2	0	1	6	8	17	31	9	Berkh'mst'd.
1·10	—	13	—	7·1	—	5·8	1·90	—	0·36	15th	24	15	0	0	0	0	2	7	1	13	0	6	4	2	2	4	2	18	12	43	3	Garforth.
1·04	—	12	—	5·7	7·0	7·2	3·37	—	0·45	15th	24	18	0	0	0	1	1	10	3	6	0	33	19	1	0	0	2	7	12	40	9	Huddersf'ld.
2·05	—	24	—	7·0	—	7·2	3·23	+0·20	0·60	14th	24	18	0	0	0	1	1	11	5	3	0	20	7	0	0	0	6	17	33	25	2	Sheffield.
1·89	+0·36	22	+ 4	6·3	7·5	7·4	1·74	−0·29	0·31	11th	17	12	0	0	0	0	2	11	0	11	0	21	5	1	0	0	0	9	14	30	22	9	Worksop.
1·90	—	22	—	6·8	6·4	6·2	5·17	+0·20	0·81	15th	27	25	0	0	0	1	0	3	8	0	8	0	10	0	0	0	0	9	6	30	29	16	Buxton.
2·78	—	33	—	5·4	—	4·9	2·17	−0·15	0·41	10th	22	13	0	0	0	1	6	7	6	8	0	18	13	0	0	0	3	18	42	9	5	Belvoir C.
2·51	—	29	—	5·9	—	—	3·02	+0·72	0·77	12th	17	13	0	0	0	0	8	14	3	13	0	9	12	0	0	0	0	9	12	33	18	6	Coventry.
2·82	—	33	—	6·7	6·5	—	2·23	—	0·66	10th	17	11	0	0	0	0	4	14	4	8	0	38	9	0	0	2	6	15	22	27	9	Thrapston.
1·75	—	21	—	7·2	6·6	6·0	1·60	−0·39	0·26	11th	19	11	0	—	1	0	1	7	4	8	2	37	2	0	0	4	3	9	35	30	7	Nottingham.
2·61	—	30	—	5·7	—	6·3	2·37	+0·01	0·54	11th	20	14	0	0	0	0	4	11	2	4	0	6	7	2	0	0	4	14	31	26	6	Birmingh'm.
2·93	+1·03	34	+12	6·7	—	—	2·46	+0·12	0·45	10th	19	9	0	0	0	0	0	0	3	6	1	40	3	3	0	0	8	20	36	16	4	Oxford.
							2·50	+0·16																							
2·43	—	28	—	8·1	8·0	7·5	2·57	−0·38	0·57	11th	22	16	0	—	0	1	1	16	1	—	1	26	0	3	8	3	1	9	25	39	2	Bath.
—	—	—	—	6·4	—	5·6	1·89	—	0·32	11th	17	13	0	0	0	0	2	6	1	3	0	8	13	0	0	2	9	12	27	6	21	Shrewsbury.
—	—	—	—	6·8	—	6·6	2·76	—	0·44	13th	20	16	0	0	0	0	2	11	1	11	0	12	28	0	3	0	2	2	18	37	0	Wistanstow.
—	—	—	—	5·5	—	5·8	3·07	—	0·66	11th	19	14	0	0	1	1	5	7	2	6	0	9	27	3	0	0	3	27	13	15	2	Bromyard.
2·92	—	34	—	5·5	—	6·0	2·43	−0·21	0·63	12th	14	12	0	0	0	0	5	9	0	6	5	41	1	0	0	2	16	11	51	7	2	Cheltenham.
3·18	—	37	—	7·5	—	6·5	2·82	+0·32	0·85	21st	18	12	0	0	0	0	2	14	1	—	0	15	18	3	3	3	3	6	24	28	2	Reading.
—	—	—	—	6·9	—	7·0	4·90	+1·46	1·21	21st	24	16	0	0	1	1	1	11	2	7	0	35	2	4	0	0	0	11	24	18	31	Salisbury.
2·27	—	26	—	7·7	7·1	—	3·21	—	0·80	21st	22	15	0	0	1	1	1	14	3	8	0	3	11	0	0	6	7	6	25	18	17	Grayshott.
1·78	—	20	—	7·8	7·1	—	3·18	—	0·64	21st	19	13	0	0	1	1	1	15	1	—	2	30	0	0	6	3	8	0	36	21	16	Midhurst.
2·46	+0·19	28	+ 2	—	—	—	4·45	+1·32	1·14	12th	18	13	—	—	—	—	—	—	—	0	0	37	—	—	—	—	—	—	—	—	—	Brighton.
2·51	—	29	—	7·3	—	—	2·91	−0·25	0·58	11th	19	13	0	0	0	1	5	17	0	?3	0	39	0	9	9	0	12	3	9	15	33	Portsmouth.
2·57	+0·37	29	+ 4	7·2	—	5·3	4·06	+0·51	0·74	21st	19	13	0	0	0	0	3	10	0	—	1	2	0	14	1	1	3	3	23	19	26	Eastbourne.
2·80	—	32	—	6·9	—	5·4	3·65	—	0·75	21st	22	15	0	—	0	0	1	9	1	0	3	38	4	2	0	0	7	11	42	15	9	Dover.
—	—	—	—	7·4	6·8	6·4	2·98	+0·33	0·64	6th	14	14	0	—	1	1	0	10	2	—	7	42	0	4	0	4	4	5	32	27	14	Dungeness.
2·66	+0·29	30	+ 3	7·5	—	5·7	3·52	+0·19	0·61	12th	20	14	0	0	0	1	2	11	0	0	3	24	3	3	2	1	6	6	34	26	9	Hastings.
2·60	+0·50	30	+ 6	6·3	—	6·2	3·69	+0·49	0·94	21st	19	14	0	0	1	1	2	9	3	2	0	17	0	0	6	0	6	0	36	0	42	S'mpton.
2·98	+0·71	34	+ 8	5·9	7·1	—	2·22	−1·19	0·55	12th	23	15	0	0	0	0	4	13	0	—	2	39	1	5	2	4	3	8	24	33	10	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.								EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column I for exact hours.											
						Mean of				Absolute Maximum and Minimum.						Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
			Station Level.	Diff. from Av.	Mean Sea Level.	Max A.	Min. B.	Mean of A and B.	Difference from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	9·855	—	9·906	53·6	43·8	48·7	+5·1	59	12th	30	23rd	—	53·1	47·1	—	48·7	1·4	—	1·6	·296	—	·307	90	—	88
p Hampstead ...	9, –, 9	453	9·438	—	9·925	52·3	42·1	47·2	—	58	11th	33	23rd	—	—	46·3	—	47·0	1·4	—	1·9	·281	—	·277	90	—	87
a Camden Square ...	9, –, 9	123	9·800	—	9·926	54·3	41·3	47·8	+3·9	60	11, 17	30	23rd	47·4	51·4	47·3	—	48·3	1·4	—	1·7	·292	—	·296	90	—	88
a Westminster ...	9, 3, –	—	—	—	—	54·6	42·6	48·6	+4·8	60	11, 17	34	23rd	—	—	48·0	52·7	—	1·3	3·0	—	·302	·320	—	91	80	—
a South Kensington*	9, 3, 6	70	9·850	—	9·920	54·9	44·4	49·7	—	60	11, 17	37	23, 24	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·746	—	9·921	54·2	42·0	48·1	+4·6	60	17th	28	23rd	—	51·7	47·3	51·7	47·9	1·7	3·4	1·9	·285	·299	·286	88	78	87
			9·744	–·031	9·923			48·3	+4·8																		
Kew ... ¶§	9, 3, 9	34	9·886	–·037	9·921	53·5	4·25	48·0	+4·5	58	17th	31	23rd	47·8	51·7	46·8	52·2	48·0	1·5	3·4	1·8	·290	·307	·298	89	78	88
			9·882	–·039	9·919			48·4	+4·7																		
6. SCOTLAND, W.																											
Eskdale	9, 3, 9	778	8·883	—	9·730	47·2	37·2	42·2	—	53	27th	25	8th	—	—	41·9	45·2	42 4	1·4	2·4	1·4	·240	·253	·245	89	83	89
p Poltalloch ... § ¶	9, –, 9	135	9·513	—	9·658	49·0	41·2	45·1	+2·2	53	16th	31	7, 8	—	—	45·7	—	45·1	1·5	—	1·5	·273	—	·265	90	—	88
a Glasgow	7, 1, 9	355	9·305	—	9·681	48·5	39·8	44·2	+1·9	55	16th	31	8, 9	—	—	43·2	46·8	44·4	1·5	2·5	1·9	·247	·262	·251	89	82	86
p Rothesay ... § ¶	9, –, 9	76	9·602	—	9·681	49·9	41·5	45·7	+2·4	55	17th	32	8th	45·6	48·5	46·2	—	45·5	2·1	—	1·7	·265	—	·266	86	—	88
a Colmonell ... § ¶	9, 3, –	150	9·575	—	9·742	51·5	41·3	46·4	+3·3	55	16,17,27	30	7th	—	—	46·4	48·9	—	1·2	1·9	—	·287	·299	—	91	87	—
p Dumfries ... § ¶	9, –, 9	155	9·587	—	9·753	50·9	40·9	45·9	+3·5	56	27th	30	22nd	45·5	49·1	44·7	—	45·5	2·0	—	1·8	·251	—	·263	86	—	87
p Cally ... § ¶	9, –, 9	120	—	—	—	50·5	40·3	45·4	+3·1	55	1st	30	22nd	—	—	45·5	—	46·2	1·5	—	1·5	·270	—	·278	89	—	90
p Douglas ... ¶§	9, –, 9	284	9·463	—	9·765	52·2	43·9	48·1	+3·4	57	27th	37	22nd	—	—	47·4	—	47·8	1·5	—	2·2	·294	—	·285	89	—	85
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·761	—	9·805	51·9	43·1	47·5	+4·2	56	2, 16	35	23rd	45·6	48·8	47·2	50·0	48·1	1·8	2·9	2·1	·285	·293	·289	87	81	85
p Manchester (City)	9, –, 9	195	9·621	—	9·827	52·1	43·9	48·0	—	57	10th	37	23rd	47·0	52·6	46·8	—	48·3	1·8	—	2·2	·282	—	·289	87	—	85
p „(WhitworthPk.)¶	9, –, 9	127	9·680	—	9·811	52·6	42·8	47·7	—	57	2, 17, 29	34	22nd	—	—	46·8	—	47·8	1·1	—	1·2	·294	—	·303	92	—	92
p Darwen	9, –, 9	730	9·030	—	9·818	49·0	40·7	44·9	—	54	17th	32	23rd	45·5	48·6	45·0	—	45·1	1·0	—	1·1	·277	—	·279	92	—	92
p Egremont	9, –, 9	354	9·390	—	9·768	50·7	42·5	46·6	—	57	25th	35	9, 22	46·5	49·2	46·5	—	46·7	1·0	—	1·4	·295	—	·294	93	—	90
p Aspatria ... ¶§	9, –, 9	254	9·471	—	9·740	50·5	41·6	46·1	+3·9	54	2, 10, 17	33	7th	46·3	49·5	45·9	—	45·7	1·5	—	1·5	·278	—	·276	89	—	89
p Newton Rigg ¶§	9, –, 9	559	9·139	—	9·743	50·1	39·5	44·8	+4·0	56	18th	28	9, 22	45·7	48·3	43·6	—	45·3	1·2	—	1·8	·257	—	·261	90	—	87
p Stonyhurst ¶§	–, –, 9	363	—	—	—	50·4	41·8	46·1	+3·6	55	2nd	34	23rd	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·720	—	9·791	51·9	43·7	47·8	+4·2	56	2, 17	35	9th	48·2	51·1	48·8	—	46·9	2·1	—	1·3	·296	—	·294	85	—	90
p Liverpool (Bid.) ¶	9, –, 9	202	9·593	—	9·806	51·8	43·4	47·6	+3·5	57	17th	35	23rd	—	—	47·0	—	47·4	1·8	—	1·9	·280	—	·282	87	—	87
p Llandudno... ¶§	9, –, 9	32	9·730	—	9·757	53·6	43·6	48·6	+2·8	58	10, 27	37	23rd	—	—	49·2	—	48·7	2·0	—	2·5	·301	—	·284	86	—	82
a Holyhead ... ¶	7, 1, 9	48	9·797	–·074	9·819	53·2	46·3	49·8	+3·3	57	10th	41	4th	—	—	49·3	51·8	49·8	1·6	2·6	2·1	·311	·318	·305	89	82	86
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	53·4	42·6	48·0	+2·4	58	11th	34	7th	46·7	49·9	47·8	—	49·1	2·0	—	2·6	·283	—	·286	86	—	82
p Dwyran	9, –, 9	30	9·799	—	9·824	53·5	44·6	49·1	—	57	10, 11	33	22nd	49·7	51·5	50·2	—	48·7	1·2	—	0·5	·332	—	·332	92	—	96
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·253	—	9·885	51·4	38·7	45·1	+3·1	58	10th	28	23rd	46·6	50·5	44·7	—	—	0·6	—	—	·281	—	—	95	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·701	–·047	9·866	54·4	48·6	51·5	+4·2	57	2, 10, 11	43	22nd	—	—	50·9	52·0	51·0	1·8	2·2	1·7	·327	·330	·331	88	85	88
a Portland Bill ¶	7, 1, 9	23	9·898	–·025	9·934	55·3	48·8	52·1	+5·2	58	1, 3, 11	41	23rd	—	—	51·7	54·2	52·2	2·4	3·1	2·2	·322	·335	·332	84	80	85
p Plymouth ... ¶§	9, 3, 9	116	9·816	—	9·942	54·9	45·0	50·0	+3·4	61	9th	36	19, 22, 23	49·9	—	50·5	52·8	50·4	1·4	1·9	1·1	·331	·348	·338	90	87	92
a Falmouth ... ¶§	7, 1, 6	183	9·759	—	9·956	54·5	44·4	49·5	+1·8	59	10th	38	23rd	51·2	54·0	48·7	53·1	50·2	1·6	2·8	1·7	·309	·335	·323	89	82	88
p Cardiff ... ¶	9, –, 9	216	9·674	—	9·903	52·8	42·1	47·5	+2·7	58	1, 2	34	23rd	47·9	51·9	47·1	—	47·6	1·6	—	1·5	·286	—	·293	89	—	90
a Newquay ... §	7, –, 6	161	9·787	–·008	9·929	53·8	46·8	50·3	+2·3	58	10th	35	23rd	50·7	—	50·8	—	50·9	1·9	—	1·8	·324	—	·327	87	—	88
p Woolacombe ...	9, –, 9	120	9·801	—	9·924	54·7	47·2	51·0	+2·5	60	10th	38	23rd	—	—	51·6	—	51·2	2·6	—	2·4	·316	—	·318	82	—	84
a Princetown ...	9, 3, –	1360	8·445	—	—	49·1	41·0	45·1	—	54	9, 29	35	13, 23	—	—	44·9	46·3	—	1·0	1·1	—	·275	·288	—	93	92	—
p Sheepstor	9, 3, 9	730	9·157	—	9·951	51·7	37·9	44·8	—	56	10th	28	22, 23	—	—	45·8	49·6	46·0	0·8	1·8	0·6	·296	·313	·305	94	88	96
p Teignmouth ...	9, 3, 9	20	9·926	—	9·946	55·8	44·5	50·2	—	60	10, 28	30	23rd	—	—	49·0	54·1	50·0	2·0	3·5	1·9	·304	·330	·317	86	78	87
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·377	–·183	9·627	50·3	42·6	46·5	+1·6	54	11th	38	25th	—	—	46·0	48·9	47·0	1·1	1·7	1·1	·285	·304	·296	92	88	92
West. *a* Blacksod Point ¶	7, 1, 9	41	9·656	–·153	9·701	52·5	44·5	48·5	+2·6	56	16th	37	22nd	—	—	49·5	50·5	48·8	2·0	2·6	2·1	·304	·302	·295	87	82	85
West. *p* Markree Castle ¶§	9, –, 9	127	9·606	—	9·738	52·2	39·0	45·6	+2·5	57	10, 27	28	1, 22	47·5	51·0	44·5	—	45·4	1·6	—	1·4	·257	—	·271	88	—	90
East. *a* Donaghadee ¶	7, 1, 9	40	9·683	–·144	9·727	51·9	41·9	46·9	+2·5	58	27th	35	22, 23	—	—	45·7	50·2	46·8	1·2	2·6	1·5	·280	·298	·284	92	83	89
East. *p* Armagh ... ¶§	9, –, 9	202	9·514	—	9·727	51·6	40·3	46·0	+3·2	58	10th	34	22nd	47·0	50·0	46·3	—	44·8	1·9	—	1·7	·275	—	·261	86	—	87
East. *a* Belfast	9, –, 9	55	—	—	—	52·3	39·6	46·0	—	57	10th	32	1, 22	—	—	46·4	—	45·9	1·7	—	1·6	·278	—	·275	87	—	88
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	51·1	38·8	45·0	—	57	10th	30	22nd	45·6	50·6	45·4	—	44·9	1·4	—	1·1	·271	—	·272	90	—	92
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	9·766	—	9·776	53·8	43·5	48·7	—	59	10th	37	22nd	47·6	50·3	48·0	—	47·9	2·6	—	2·7	·278	—	·275	82	—	82
East. *p* „ (Phœnix Pk.)§	9, –, 9	159	9·620	—	9·787	53·0	39·7	46·4	+2·7	60	10th	29	4th	—	—	46·9	—	45·8	1·5	—	1·4	·290	—	·280	89	—	90
East. *p* „ (City)... ¶	9, –, 9	53	9·730	—	9·784	52·6	42·8	47·7	+2·4	57	17th	35	22nd	—	—	46·9	—	46·7	2·0	—	2·1	·279	—	·275	86	—	85
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·589	–·117	9·782	52·1	39·9	46·0	+2·8	56	9, 10, 25	30	22, 23	48·2	51·0	44·6	50·5	47·4	1·1	3·0	1·9	·270	·293	·282	92	80	87
West. Valencia ... ¶§	9, 3, 9	45	9·780	–·081	9·828	53·0	45·6	49·3	+1·7	57	10th	38	22nd	—	—	49·6	51·1	49·5	3·1	2·2	1·8	·317	·323	·312	89	85	88
			9·779	–·080	9·829			50·0	+2·4																		
West. *a* Roche's Point ¶	7, 1, 6	42	9·804	–·062	9·854	53·5	44·4	49·0	+2·2	58	27th	37	22, 23	—	—	48·6	52·3	49·9	0·9	2·0	1·0	·320	·339	·333	94	86	93
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·738	—	9·792	52·7	40·2	46·5	—	57	10th	30	1st	48·3	—	46·3	49·7	46·1	1·0	1·7	0·8	·290	·313	·293	93	88	94
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·771	+·011	9·938	54·4	47·7	51·1	+1·3	58	10th	43	13, 24, 25	—	—	51·2	53·0	51·1	0·7	1·1	0·9	·358	·371	·352	96	92	93
a Jersey ... ¶§	7, 1, 9	30	9·981	+·052	0·021	56·5	47·4	52·0	+3·6	62	11th	40	23rd	—	—	51·6	54·8	51·6	1·9	3·1	1·8	·333	·345	·335	87	80	88
p Guernsey (Brooklyn).	9, –, 9	311	9·670	—	0·001	55·3	47·6	51·5	+2·8	60	9, 11	40	23rd	51·5	54·7	51·8	—	50·8	2·6	—	2·2	·322	—	·319	88	—	85
a Gibraltar ...	7, 1, 9	—	0·165	—	0·221	65·7	55·2	60·5	—	72	4, 11, 12	50	25, 27, 28	—	—	58·1	64·5	60·2	2·3	5·0	3·0	·414	·443	·431	86	73	82

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of NOVEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND No. of Observations reduced to a total of 90 for the month.									STATIONS.
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Mean Amount. I.	Mean Amount. II.	Mean Amount. III.	Total Fall.	Difference from Average.	Most in a day. Amount.	Most in a day. Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Force (0-12). Forces 4-7.	Force (0-12). Calm.	Direction. N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
2·08	—	24	—	8·4	—	7·9	2·73	—	0·72	21st	11	11	0	0	0	0	1	20	3	2	0	6	3	0	0	0	8	9	31	33	6	Tottenham.
2·35	—	27	—	7·5	—	6·6	2·53	—	0·74	21st	17	13	0	0	1	0	2	13	11	19	0	11	10	3	0	3	8	6	42	15	3	Hampstead.
1·82	—	21	—	8·0	—	—	2·35	−0·01	0·67	21st	17	11	0	0	0	0	5	22	4	1	—	—	18	0	0	0	6	9	21	30	6	Camden Sq.
1·72	+0·82	20	+10	—	—	—	2·00	−0·35	0·67	21st	15	10	0	—	0	0	—	—	7	0	—	—	—	—	—	—	—	—	—	—	—	Westminster
1·68	—	19	—	7·8	—	6·4	2·04	—	0·67	21st	16	11	0	—	0	0	2	15	4	9	0	11	7	1	1	0	5	11	43	17	5	S.Kensingtn
2·39	+0·72	27	+ 8	7·1	6·8	6·0	2·53	+0·31	0·63	10th	17	9	0	0	0	0	1	10	6	9	0	17	9	4	1	1	4	6	27	34	4	Greenwich.
2·40	+0·73	28	+ 9	7·7	6·7	7·4	2·23	+0·02	0·77	21st	17	10	0	0	0	1	0	13	8	9	0	19	13	2	0	4	6	14	34	16	1	Kew.
1·23	—	15	—	8·6	7·5	7·4	6·73	—	1·09	2nd	25	21	0	0	0	1	0	15	1	—	5	45	16	1	4	0	2	14	40	9	4	Eskdale.
—	—	—	—	9·1	—	8·2	9·02	+3·60	0·79	15, 20	27	25	0	0	0	2	0	22	0	—	1	53	0	5	3	3	3	1	36	26	13	Poltalloch.
1·38	+0·51	17	+ 6	7·9	7·9	6·9	5·57	+1·87	0·68	18th	26	20	0	—	5	0	0	14	0	5	9	33	2	0	5	9	3	11	35	22	3	Glasgow.
1·36	—	17	—	7·9	—	7·5	7·19	+2·24	0·76	15th	28	25	0	0	0	2	1	15	4	3	1	44	5	1	2	10	1	12	5	39	15	Rothesay.
—	—	—	—	7·3	—	—	5·82	+0·90	0·65	15th	27	25	0	0	0	1	4	17	0	1	0	24	3	0	0	3	15	12	12	33	12	Colmonell.
1·43	—	18	—	7·0	—	6·9	4·14	+0·10	0·70	2nd	24	18	0	0	0	0	0	12	0	4	3	27	0	2	6	0	4	5	45	10	18	Dumfries.
—	—	—	—	—	—	—	5·96	+0·65	0·88	5, 11	25	20	0	0	0	0	—	—	0	—	2	20	0	2	10	3	11	0	16	9	39	Cally.
2·03	−0·01	24	0	7·6	—	6·3	5·99	+1·19	1·30	11th	25	19	0	0	4	1	0	7	1	1	2	50	1	1	2	3	6	12	17	34	14	Douglas.
1·76	+0·19	21	+ 2	6·6	6·9	7·1	3·83	+0·59	0·81	20th	26	22	0	0	1	1	1	13	0	6	7	68	0	2	0	1	15	14	13	35	10	Southport.
0·68	—	8	—	6·1	—	6·6	3·86	+0·78	0·63	14th	27	21	0	0	0	0	1	4	0	4	0	27	0	2	0	6	16	18	21	18	9	Manchester.
1·21	—	14	—	7·4	8·0	7·7	3·16	—	0·41	14th	27	19	0	0	0	0	2	18	0	—	0	30	8	0	0	2	14	20	29	15	2	Whitwth Pk.
1·16	—	14	—	8·5	—	8·7	6·80	—	1·17	20th	29	26	0	0	1	0	0	20	0	1	1	39	0	0	0	0	5	34	15	30	6	Darwen
1·23	—	15	—	7·8	—	7·6	5·13	—	0·80	20th	25	20	0	0	0	0	1	16	0	5	2	26	3	3	2	0	13	11	27	12	19	Egremont.
1·61	—	20	—	7·1	—	5·9	3·94	−0·17	0·71	20th	25	20	0	0	0	0	3	12	0	3	2	23	6	0	0	3	5	18	28	24	6	Aspatria.
1·51	−0·12	18	− 2	6·6	—	6·9	3·34	−0·36	0·44	2, 20	24	20	0	0	1	1	2	6	3	11	2	30	7	2	2	10	6	17	28	16	2	N'wt'n Rigg.
1·20	−0·30	14	− 4	—	—	—	5·82	+1·44	0·86	20th	29	26	0	—	2	0	—	—	0	6	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
1·75	+0·18	21	+ 2	8·2	—	7·4	4·07	+0·59	0·95	20th	27	20	0	0	0	0	0	13	0	3	2	63	0	2	1	3	18	11	18	31	6	Blackpool.
2·41	—	29	—	6·1	—	6·4	2·69	+0·04	0·48	12th	26	17	0	0	3	0	4	9	0	—	0	38	0	0	0	3	16	11	25	30	5	Liverpool.
2·25	+0·42	27	+ 5	7·0	—	8·0	3·63	+0·28	0·68	12th	24	17	0	0	0	0	2	16	0	—	0	27	0	4	3	0	0	14	18	43	8	Llandudno.
2·01	—	24	—	7·6	7·0	6·3	4·63	+0·49	1·04	12th	22	18	0	—	0	0	0	5	1	—	10	44	0	2	0	1	5	14	35	24	9	Holyhead.
1·59	—	19	—	7·9	—	7·1	6·40	—	0·89	20th	23	23	0	0	0	0	1	15	0	1	5	39	3	4	0	0	0	5	23	40	15	Bettws.
2·14	—	25	—	7·7	—	5·7	4·83	—	0·81	12th	24	22	0	0	1	0	2	12	0	2	4	29	24	3	0	0	2	39	9	9	4	Dwyran.
1·65	—	19	—	7·8	—	—	6·73	+2·87	1·13	20th	27	22	0	0	0	0	3	19	2	?8	0	30	27	0	0	0	0	3	33	24	3	Llangamch.
1·78	−0·32	21	− 3	7·5	7·1	7·5	4·60	+0·66	0·79	9th	23	20	0	—	0	0	0	4	3	—	7	70	0	2	0	0	4	12	28	32	12	Pembroke.
—	—	—	—	6·5	6·7	6·0	2·58	—	0·62	21st	17	14	0	—	0	1	1	6	0	—	5	60	0	3	1	2	3	10	21	36	14	Portl'nd Bill
2·31	+0·11	26	+ 1	7·7	8·4	7·3	4·14	+0·48	0·79	11th	24	17	0	0	0	2	0	17	3	5	0	24	9	14	1	1	3	8	13	23	18	Plymouth.
2·45	+0·02	28	0	6·1	7·5	7·2	5·77	+0·63	0·57	20th	22	19	0	0	3	1	2	9	3	2	0	26	10	5	0	0	3	7	23	30	12	Falmouth.
2·08	—	24	—	—	—	—	5·36	+1·23	0·82	11th	23	21	0	0	0	0	—	—	2	5	0	14	8	0	1	7	9	1	17	20	27	Cardiff.
2·21	−0·29	25	− 3	7·6	—	8·0	4·32	+0·60	0·57	5th	25	21	0	—	1	0	2	19	5	—	0	47	0	3	0	0	8	16	27	27	9	Newquay.
1·75	−0·48	20	− 6	6·9	—	6·9	4·34	+1·17	0·72	5th	27	19	0	0	1	0	1	7	0	—	0	44	1	0	0	13	6	5	20	28	17	Woolac'mbe.
—	—	—	—	8·0	8·6	—	12·58	—	2·23	20th	27	24	0	0	4	1	1	19	14	—	0	27	0	5	0	0	15	3	24	18	25	Princetown.
—	—	—	—	6·3	7·6	8·4	9·13	—	1·33	20th	28	24	0	0	2	2	2	14	11	—	1	27	13	6	1	0	6	6	20	20	18	Sheepstor.
2·89	—	33	—	5·4	6·3	6·1	3·23	—	0·88	11th	17	13	0	0	0	0	3	5	1	1	1	35	1	7	0	1	3	10	11	40	17	Teignmouth
—	—	—	—	7·4	7·2	7·8	4·26	+1·03	0·56	2nd	28	23	0	—	2	0	0	5	10	—	17	45	0	3	1	1	7	16	27	20	15	Malin Head.
—	—	—	—	7·6	7·4	8·6	6·98	+1·69	1·64	23rd	28	25	0	—	7	0	0	11	0	—	4	59	1	0	0	0	7	9	19	36	18	Blacksod Pt.
1·84	+0·04	22	0	7·6	—	7·8	5·36	+1·26	1·10	23rd	26	24	0	0	4	1	0	13	0	8	3	6	22	3	0	0	11	19	21	2	12	Markree Cas.
—	—	—	—	6·1	6·5	6·4	3·65	+0·45	0·71	12th	22	20	0	—	1	0	0	5	0	—	1	20	0	3	1	0	2	15	32	30	7	Donaghadee.
2·21	+0·31	27	+ 4	7·1	—	7·5	2·93	+0·03	0·42	7th	22	19	0	0	0	0	0	15	0	5	0	18	13	0	0	1	8	19	36	11	2	Armagh.
—	—	—	—	—	—	—	4·10	+0·82	0·61	15th	27	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·5	—	5·9	3·54	—	0·49	7th	25	19	0	0	2	0	1	7	0	—	2	23	0	0	0	2	18	14	27	19	10	Newtown-forbes.
2·12	—	25	—	7·0	—	6·1	2·11	—	0·54	7th	18	11	0	0	0	0	3	14	3	2	1	5	14	0	0	4	6	6	11	43	6	Dublin T. C.
2·67	+0·34	32	+ 4	7·1	—	6·6	2·24	−0·63	0·50	7th	22	15	0	0	0	0	1	11	0	2	0	21	8	0	0	1	4	8	26	40	3	Phœnix Pk.
—	—	—	—	5·9	—	5·7	2·24	−0·48	0·51	7th	21	11	0	0	0	0	2	8	0	0	3	30	3	0	0	0	3	14	27	37	6	Dublin (City).
2·15	+0·05	25	0	7·1	6·8	8·0	3·08	−0·02	0·57	7th	23	18	0	—	0	0	0	5	0	11	0	12	2	0	1	0	10	19	31	21	6	Birr Castle.
1·21	−0·96	14	−11	8·8	8·1	8·0	6·95	+1·28	0·70	22nd	29	26	0	0	1	1	0	18	1	—	0	58	2	1	1	3	7	18	24	22	12	Valencia.
—	—	—	—	7·0	7·2	6·6	4·81	+0·12	0·85	11th	28	18	0	—	0	0	0	9	4	—	5	38	0	5	2	3	3	9	21	30	17	Roche's Pt.
1·80	—	21	—	7·5	7·9	6·5	4·06	—	0·62	7th	21	20	0	0	0	0	0	11	1	6	4	37	14	0	0	0	6	24	15	26	5	Limerick.
2·07	−0·46	23	− 5	7·2	7·5	7·1	3·05	−0·63	0·58	5th	26	17	0	—	1	0	0	8	6	—	2	70	0	3	0	0	6	10	11	38	22	Scilly.
2·19	−0·34	24	− 4	7·6	8·0	7·8	4·79	+0·69	1·02	6th	23	17	0	—	2	2	0	16	0	—	0	48	0	4	0	1	5	11	21	41	7	Jersey.
2·36	+0·33	26	+ 3	6·6	—	7·7	4·92	+0·15	0·81	5th	25	21	0	0	4	2	0	10	6	1	2	47	1	3	0	2	6	9	24	28	17	Guernsey.
—	—	—	—	4·7	5·9	3·7	1·39	—	0·88	2nd	6	4	0	0	0	0	5	3	0	0	0	22	5	0	0	41	3	1	5	6	29	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, NOVEMBER, 1913.

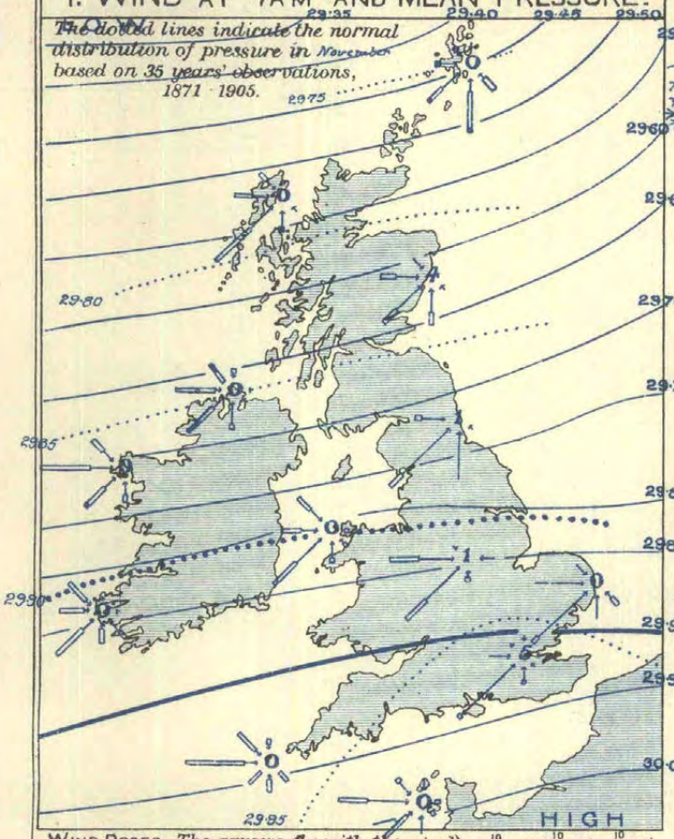
DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A	Means of B	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Ft.	° Max.	° Min.	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
a Baltasound ...	S	31	48·4	40·9	44·7	—	52	2nd	34	15th	44·7	—	5·41	—	0·56	11th	30	0	6	4	1	—	0·71	—	10	—
a Fortrose		69	50·4	40·2	45·3	—	59	29th	34	6th	—	—	2·71	—	0·41	20th	19	0	0	0	0	—	2·00	—	26	—
1. SCOTLAND, E.																										
a Crathes	S §	140	50·8	37·2	44·0	—	61	27th	25	6th	43·7	47·3	0·87	—	0·34	2nd	14	0	0	0	2	9	2·38	—	30	—
p Stonehaven ...	...	86	51·0	38·7	44·9	—	58	17th	32	6th	—	—	1·26	—	0·41	2nd	13	0	0	0	0	—	2·45	—	31	—
p Balruddery ...	S §	276	50·4	37·6	44·0	—	57	17th	29	8th	—	—	2·06	—	0·53	2nd	17	0	0	0	1	—	2·55	—	32	—
a Carnoustie ...	...	39	50·2	39·9	45·1	—	56	17th	30	8th	—	—	1·87	—	0·52	2nd	18	0	0	0	1	—	2·20	—	28	—
a St. Andrews ...	...	20	50·6	38·9	44·8	—	56	17, 27	27	8th	43·8	48·1	2·11	—	0·86	2nd	16	0	0	0	0	7	2·12	—	27	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	51·2	39·4	45·3	+ 3·0	57	17, 27	29	6th]	—	—	1·73	−1·78	0·30	8th	18	0	0	0	0	—	—	—	—	—
a Bellingham ...	...	848	47·9	37·2	42·6	—	53	11, 17	27	8th	—	—	2·74	—	0·39	20th	23	0	1	0	3	—	—	—	—	—
a Tynemouth ...	...	90	50·9	41·0	46·0	—	57	2, 16, 20	35	6, 9, 23	45·6	48·9	1·56	—	0·26	10, 26	17	0	0	0	3	2	1·85	—	23	—
a Chopwellwood ...	...	445	50·4	38·4	44·4	—	57	18th	29	8th	—	—	1·40	—	0·18	26th	20	0	0	0	4	12	2·56	—	31	—
a Ushaw	...	599	50·2	38·9	44·6	—	58	17th	31	8th	—	—	1·25	—	0·22	10, 20	19	0	0	0	0	—	—	—	—	—
a Ampleforth ...	...	349	50·0	39·0	44·5	—	55	2, 17	30	8, 23	—	—	1·91	—	0·43	10th	20	0	0	0	8	—	—	—	—	—
a West Witton ...	...	605	49·1	39·2	44·2	—	55	2nd	30	8, 9	44·3	47·3	3·03	—	0·85	20th	24	0	0	0	4	6	—	—	—	—
a Fulbeck	¶	180	51·8	39·7	45·8	+ 3·8	59	2nd	29	22nd	—	—	2·02	−0·02	0·49	10th	22	0	0	1	0	12	—	—	—	—
a Rauceby	§	124	52·5	38·8	45·7	—	58	2, 3, 17	25	23rd	46·5	50·7	2·03	−0·26	0·38	10, 11	17	—	—	—	—	—	2·55	—	30	—
3. ENGLAND, E.																										
a Norwich		93	52·4	40·9	46·7	—	58	17th	27	23rd	48·8	—	2·27	—	0·58	11th	21	0	0	1	0	8	2·89	—	34	—
a Peterborough (Eye) ...		16	52·8	38·4	45·6	—	59	17th	25	23rd	—	—	1·75	—	0·45	10th	21	0	0	0	2	—	—	—	—	—
a Ridgewell		269	52·2	39·7	46·0	—	58	2, 17, 29	27	23rd	—	—	2·33	—	0·53	11th	20	0	0	1	2	—	—	—	—	—
a Ipswich (Copdock) ...		164	53·1	40·6	46·9	—	59	2nd	30	23rd	47·7	51·0	2·93	—	0·65	13th	17	0	0	1	0	5	2·92	—	34	—
a Felixstowe		10	53·7	43·2	48·5	+ 4·1	59	2, 17	36	23rd	—	—	2·45	—	0·48	21st	17	0	0	0	6	—	3·33	—	39	—
a Walton-on-Naze		68	53·1	42·8	48·0	—	58	2, 17	36	23rd	—	—	2·62	—	0·52	13th	16	0	0	0	4	2	2·97	—	35	—
a Halstead		139	54·1	39·7	46·9	—	60	2, 17, 29	26	23rd	—	—	2·70	—	0·42	21st	18	0	0	1	0	—	—	—	—	—
a Chelmsford		134	53·6	38·6	46·1	—	59	17th	24	23rd	—	—	2·58	—	0·54	13th	16	0	0	0	1	—	—	—	—	—
p Hemel Hempstead ...		535	51·8	39·7	45·8	—	57	2nd	30	23rd	—	—	3·01	—	0·62	12th	22	0	0	0	1	9	—	—	—	—
a Rothamsted ...	¶§	424	53·4	38·7	46·1	+ 3·8	59	2, 17	26	23rd	—	—	2·61	−0·15	0·42	12, 21	23	0	0	0	0	—	3·10	+1·10	36	+13
a Shoeburyness		13	54·0	43·2	48·6	+ 4·1	60	2nd	32	23rd	—	—	2·66	+0·53	0·56	12th	14	0	0	0	6	—	—	—	—	—
a Southend		90	53·7	43·8	48·8	—	59	28th	35	23rd	49·6	—	2·48	+0·37	0·51	13th	13	0	0	0	0	2	2·59	—	30	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	49·4	39·3	44·4	+ 2·7	54	2, 17, 20	30	6th	45·5	47·6	2·50	−0·19	0·57	15th	21	0	0	0	0	8	1·70	—	20	—
a Bradford	...	439	50·3	41·2	45·8	—	56	17th	33	22, 23	44·5	50·4	3·24	—	0·60	15th	23	0	1	0	3	5	1·19	—	14	—
a Meltham	...	513	51·2	40·9	46·1	—	57	19th	32	9th	44·7	—	4·97	—	0·59	15th	26	—	—	—	—	5	—	—	—	—
a Cheadle	¶	646	50·1	39·0	44·6	+ 3·1	55	2nd	29	23rd	—	—	2·64	−0·31	0·50	12th	20	—	—	—	—	10	—	—	—	—
a Wellington		207	—	37·1	—	—	—	—	26	9th	—	—	2·02	—	0·48	12th	20	0	0	0	1	—	—	—	—	—
a Bawtry	¶	65	52·3	40·7	46·5	+ 4·2	59	17th	30	23rd	—	—	1·82	−0·21	0 35	11th	21	0	0	0	0	—	—	—	—	—
a Matlock	...	636	51·3	39·1	45·2	—	56	2, 15, 29	29	9th	—	—	2·92	—	0·39	12th	22	0	0	1	6	—	1·78	—	21	—
a Belper	...	222	52·3	38·1	45·2	—	56	2, 18, 27	28	9, 23	—	—	2·74	—	0·55	11th	21	0	0	0	1	—	—	—	—	—
a Belper (Quarry Bank) ...		280	51·4	38·4	44·9	—	56	17th	27	23rd	—	—	2·68	−0·31	0·58	11th	21	0	0	0	3	—	—	—	—	—
a Mayfield (Staffs) ...		374	51·1	36·8	44·0	—	56	2nd	25	9th	—	—	2·85	—	0·47	12th	23	0	1	1	4	8	1·67	—	20	—
a Strelley	...	377	51·7	39·1	45·4	+ 3·9	57	2nd	30	23rd	46·1	—	1·88	−0·56	0·33	12th	23	0	0	0	2	—	1·77	+0·30	21	+ 3
a Kingston-on-Soar...	...	125	52·8	38·1	45·5	—	59	2nd	23	23rd	47·3	—	1·60	—	0·26	11th	16	0	0	0	3	—	—	—	—	—
a Sparkhill	...	425	53·3	38·2	45·8	—	58	2nd	28	23rd	—	—	2·94	—	0·77	11th	21	0	0	0	0	8	—	—	—	—
p Rugby	...	379	52·7	38·1	45·4	+ 3·4	58	2nd	25	23rd	—	—	2·48	—	0·66	12th	18	0	0	0	0	9	—	—	—	—
a Raunds	¶	204	53·6	37·1	45·4	+ 2·8	59	1, 2, 17	22	23rd	47·6	52·5	1·90	—	0·55	10th	17	0	0	0	2	13	2·93	—	34	—
a Malvern	...	520	51·4	42·0	46·7	—	57	17th	35	23rd	—	—	3·29	—	0·98	11th	18	—	—	—	—	—	3·18	—	37	—
a Ross... ...	...	214	54·6	39·9	47·3	—	59	13th	29	23rd	—	—	3·36	—	0·75	11th	20	0	0	0	2	—	—	—	—	—
a Hereford	¶	291	53·8	39·2	46·5	+ 3·4	60	17th	29	23rd	—	—	2·50	−0·05	0·45	12th	18	0	0	1	0	9	—	—	—	—
a Leamington ...	...	165	53·4	39·7	46·6	—	58	2, 17	25	23rd	46·5	55·2	2·86	—	0·60	12th	18	0	0	0	1	16	2·77	—	32	—
a Cirencester...	¶§	446	52·8	38·7	45·8	+ 3·9	62	10th	25	23rd	47·6	50·8	3·03	+0·06	0·52	12th	18	—	—	—	—	4	2·73	+0·83	32	+10
a High Wycombe ...		249	53·2	39·3	46·3	—	58	2, 11, 18	28	23rd	—	—	2·71	—	0·55	21st	15	0	0	0	6	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	53·0	39·7	46·4	—	58	2, 11	25	23rd	—	—	2·77	—	0·34	21st	19	0	0	0	0	5	—	—	—	—
a Wokingham		216	54·2	35·9	45·1	—	60	11th	21	23rd	—	—	2·54	—	0·70	21st	17	0	0	1	1	—	—	—	—	—
a Marlborough ...	¶§	424	52·7	38·6	45·7	+ 3·6	57	1, 2, 11	24	23rd	—	51·8	3·07	−0·24	0·65	10th	16	—	—	—	—	12	2·22	+0·52	26	+ 6
a Bucklebury		409	52·7	40·6	46·7	—	58	12th	28	23rd	—	—	2·66	—	0·66	21st	17	0	0	0	0	10	—	—	—	—
a New Malden		39	54·0	40·1	47·1	—	59	2, 11, 17	28	23rd	47·8	52·0	1·90	—	0·63	21st	13	0	1	1	2	10	2·23	—	26	—
a Croydon (Addington) ...		472	52·5	42·3	47·4	—	58	11, 17	35	22, 23	—	—	2·75	—	0·92	21st	18	0	0	0	3	—	—	—	—	—
a Wallington		144	53·8	41·2	47·5	—	59	2, 11, 17	26	23rd	48·0	51·2	2·85	—	0·82	21st	19	0	0	1	4	1	—	—	—	—
a Woking		180	54·9	39·7	47·3	—	61	2, 17	27	23rd	47·9	—	2·34	—	0·73	21st	16	—	—	—	—	8	—	—	—	—
a Margate	¶§	35	54·2	44·1	49·2	+ 4·0	59	11th	39	8, 25	50·7	52·8	2·82	+0·23	0·71	12th	16	0	0	0	0	1	2·07	+0·04	24	+ 1
a Aldershot		231	52·9	39·4	46·2	—	59	11th	25	23rd	—	—	2·63	—	0·90	21st	19	0	0	1	5	—	—	—	—	—
a Wisley	¶§	150	53·7	40·2	47·0	+ 2·6	59	11th	26	23rd	47·8	51·2	2·17	—	0·68	21st	12	0	0	0	2	13	2·70	—	31	—
a Basingstoke ...	...	289	52·5	39·0	45·8	—	59	10th	26	23, 24	48·3	51·2	3·21	—	0·76	21st	16	0	1	1	2	1	—	—	—	—
a Sevenoaks	...	509	52·4	41·3	46·9	—	58	2nd	32	23rd	46·9	51·2	3·45	—	0·82	21st	19	0	0	2	0	4	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		320	53·4	41·0	47·2	—	—	17th	29	23rd	—	—	4·31	—	1·18	12th	18	0	1	2	0	8	—	—	—	—
a Ramsgate		168	53·8	42·4	48·1	—	58	17th	38	8, 20, 28	—	—	2·45	—	0·58	21st	17	0	0	0	0	—	2·60	—	30	—
a Folkestone... ...		121	54·4	45·5	50·0	—	59	28th	39	19th	—	52·9	3·99	+0·75	0·76	21st	17	0	0	1	2	—	2·55	—	29	—
a Bexhill		27	54·6	45 5	50·1	—	58	2, 11, 28	38	27th	52·2	—	3·28	—	0·59	12th	21	0	0	1	1	0	2·77	—	32	—
a Worthing	§	36	55·5	43·1	49·3	+ 4·6	62	11th	35	27th	50·0	53·9	3·76	+0·62	1·07	12th	18	0	1	1	0	0	2·67	—	30	—
a Bognor		20	54·9	43·5	49·2	—	59	11th	35	23, 27	—	54·5	3·69	—	0·95	12th	17	0	1	1	0	—	2·76	—	31	—
a Selsey Bill		21	55·4	45·1	50·3	—	61	11th	33	23rd	—	—	3·37	—	0·88	12th	18	0	0	1	0	0	2·81	—	32	—
a Totland Bay ...		140	54·6	45·9	50·3	+ 4·6	59	11th	34	23rd	—	—	3·63	+0·58	0·78	11th	20	0	1	1	2	1	2·91	—	32	—
a Sandown		20	57·3	45·7	51·5	—	62	3rd	35	23rd	—	—	3·56	—	0·65	10th	21	—	—	—	—	—	2·82	—	32	—
p Bournemouth ...		145	55·3	42·6	49·0	—	60	10, 11	29	23rd	48·9	51·6	3·20	—	0·55	10, 21	16	—	—	—	—	—	3·02	—	35	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

MONTHLY WEATHER CHARTS, NOVEMBER, 1913.

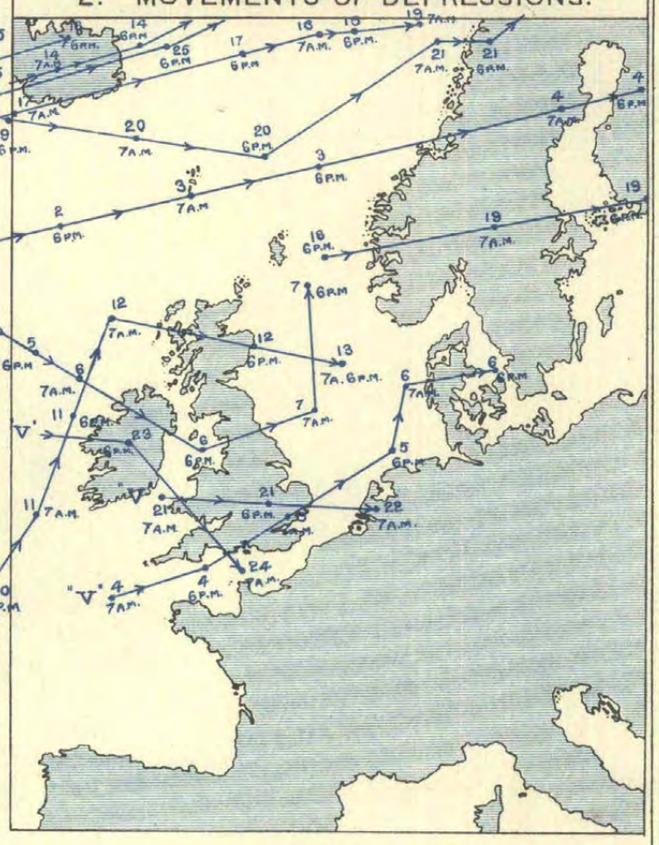
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in November based on 35 years' observations, 1871-1905.



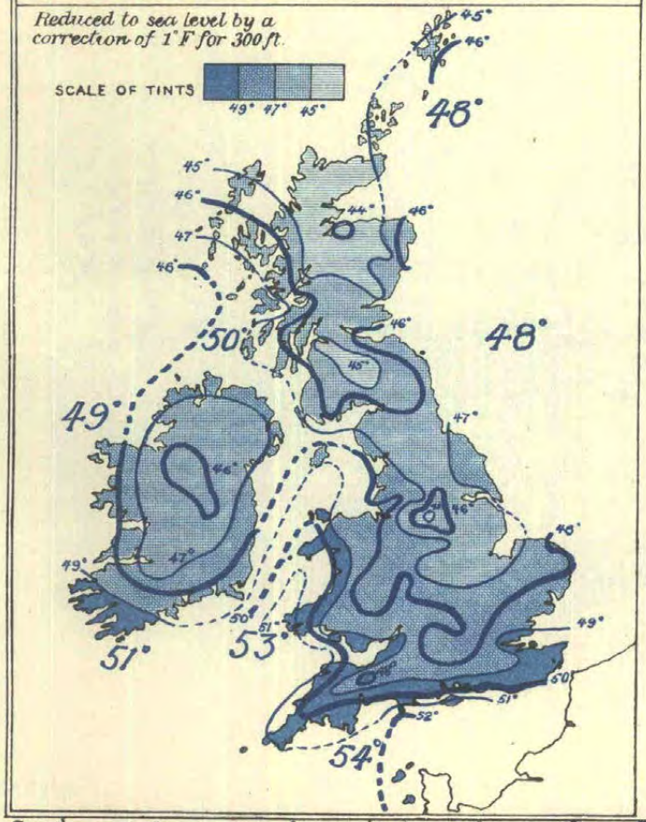
WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG — 30 Obsns. = 1 Inch

2. MOVEMENTS OF DEPRESSIONS.



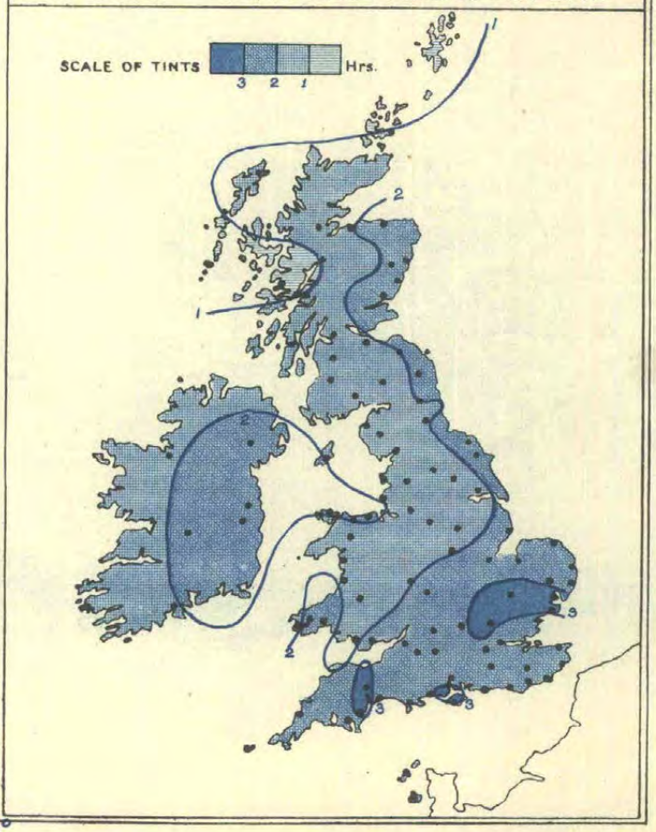
3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

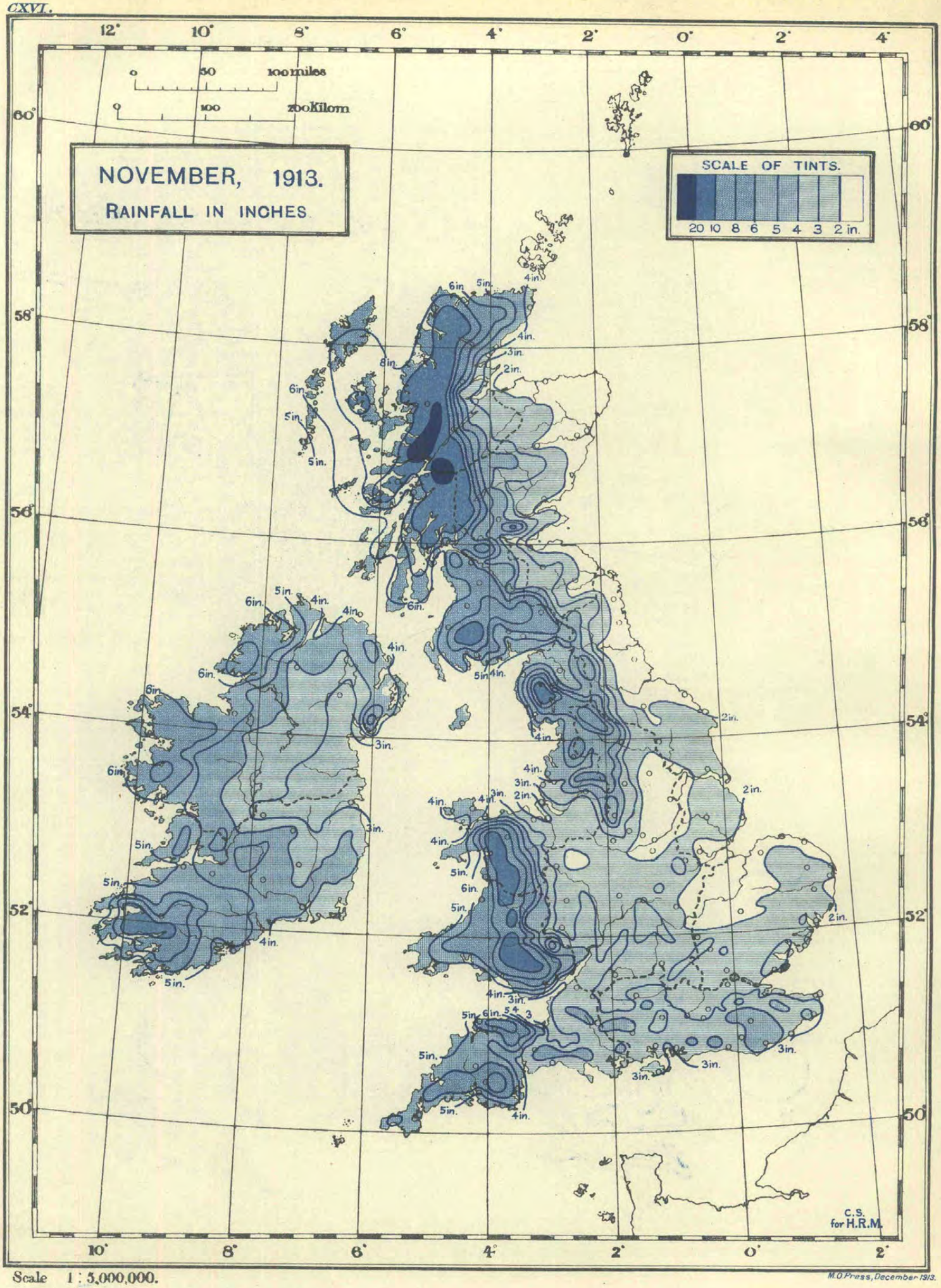


Sea temperatures are shown in large figures thus 49°

4. BRIGHT SUNSHINE. HOURS PER DAY.



M.O.Press, December 1913.



Scale 1 : 5,000,000.

M.O. Press, December 1913.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, NOVEMBER, 1913.

DISTRICTS AND STATIONS	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day..	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	53·8	39·4	46·6	—	61	2nd	26	23rd	—	50·7	2·63	—	0·63	21st	18	0	0	1	4	3	2·56	—	30	—
a Golder's Green	279	53·1	40·5	46·8	—	59	11, 17	31	23rd	—	—	2·51	—	0·75	21st	19	0	0	0	3	—	—	—	—	—
p Hampstead (Redington Rd.)	375	52·8	41·7	47·3	—	58	2, 11, 17	35	22,23,27	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	51·4	42·5	47·0	—	56	12th	35	7, 8, 22	—	—	7·47	—	1·12	20th	26	0	1	2	0	1	0·97	—	12	—
a Ardnadam	64	50·2	40·7	45·5	—	55	17th	31	8th	—	—	12·16	—	1·33	2nd	27	0	1	2	0	7	—	—	—	—
a Thorntonhall (Lanarkshire)	440	49·2	38·4	43·8	—	59	19th	28	9th	—	—	5·85	—	0·94	2nd	25	0	0	0	2	5	1·38	—	17	—
a Kilmarnock ¶	90	50·5	40·3	45·4	+ 2·9	54	11,16,17	29	7th	—	—	4·88	—	0·50	2nd	27	0	2	0	0	—	1·29	—	16	—
p Ruthwell §	67	52·4	39·6	46·0	—	60	27, 28	28	22nd	—	—	4·69	—	0·61	3, 13	20	0	0	0	0	—	1·65	—	20	—
7. ENGLAND, N.W.																									
a Scaleby	111	50·4	39·7	45·1	—	55	16,17,20	26	8th	—	—	4·15	—	0·77	20th	26	0	0	0	0	—	—	—	—	—
a Seathwaite	422	50·6	41·1	45·9	—	56	16,17,27	31	22nd	—	—	13·47	—	1·50	20th	26	0	2	0	0	—	—	—	—	—
a Carnforth	174	51·1	41·3	46·2	—	56	1st	30	22nd	—	—	4·32	—	1·03	20th	21	0	3	1	3	4	1·33	—	16	—
a Lancaster	311	51·1	43·0	47·1	—	56	1st	37	9, 23	47·9	52·4	5·24	—	1·38	20th	28	0	0	1	0	0	1·30	—	16	—
a Hutton	81	51·6	40·9	46·3	—	55	1, 16, 29	30	22nd	46·9	50·0	4·27	—	0·82	20th	29	0	0	1	1	6	1·51	—	18	—
a Burnley	459	50·3	40·8	45·6	—	55	11,16,17	30	22nd	45·5	49·3	5·02	—	0·74	15, 20	28	—	—	—	—	6	0·99	—	12	—
a Leyland	124	51·9	41·0	46·5	—	57	29th	29	22nd	—	—	4·22	—	0·71	20th	29	0	1	0	1	6	1·44	—	17	—
a Bolton	341	50·7	41·7	46·2	—	57	17th	34	23rd	45·5	48·8	4·80	—	0·75	20th	28	0	0	0	2	6	0·85	—	10	—
a Blundellsands	34	52·5	43·9	48·2	—	57	2nd	36	9, 23	—	—	3·04	—	0·56	12th	25	0	3	0	1	2	—	—	—	—
a Hoylake §	30	52·1	43·7	47·9	—	57	1st	34	23rd	—	—	2·84	—	0·56	12th	23	0	1	0	0	2	2·46	—	29	—
a Rhyl	30	54·5	43·0	48·8	—	60	16,17,27	36	9, 22, 23	—	—	2·39	−0·23	0·62	12th	23	0	0	0	0	0	2·54	—	30	—
a Colwyn Bay	82	53·8	45·1	49·5	—	60	16th	38	23rd	—	—	3·03	—	0·71	12th	21	0	0	0	0	—	2·19	—	26	—
a Llanberis (Pen-y-Gwryd)	913	49·8	40·9	45·4	—	56	18th	36	9, 20	—	—	21·91	—	3·28	12th	26	0	1	0	1	—	—	—	—	—
a Macclesfield	500	50·6	40·0	45·3	—	56	2nd	32	7, 22	—	—	3·18	—	0·34	20th	27	0	0	0	0	—	—	—	—	—
a Northwich	117	52·7	39·0	45·9	—	58	2, 17	28	23rd	—	—	2·48	—	0·30	13th	25	0	0	0	7	—	—	—	—	—
a Hawarden Bridge ¶	22	53·8	43·2	48·5	+ 3·6	59	2, 18, 20	34	23rd	—	—	1·89	−0·46	0·43	12th	23	—	—	—	—	—	—	—	—	—
a Ruthin	449	51·9	42·5	47·2	—	56	10,18,20	37	22nd	—	—	2·54	—	0·52	12th	24	0	0	0	0	—	—	—	—	—
a St. Asaph	479	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Welshpool	255	53·6	40·1	46·9	—	60	2nd	26	9th	—	—	3·17	—	0·49	20th	23	0	0	0	1	—	—	—	—	—
p Aberdovey §	22	54·3	45·9	50·1	—	59	10, 14	40	7, 22	—	—	5·08	—	1·04	20th	27	0	0	0	0	—	1·94	—	23	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	53·2	46·2	49·7	—	59	10th	37	7th	—	—	4·65	—	0·88	12th	25	0	1	0	0	—	2·15	—	25	—
a Gwernyfed	374	52·7	37·0	44·9	—	58	10th	23	23rd	—	—	3·09	—	0·65	11th	24	0	0	1	3	—	—	—	—	—
a Haverfordwest	93	—	43·9	—	—	—	—	32	24th	—	—	4·81	—	0·77	9th	25	0	0	0	2	—	2·41	—	28	—
a Tenby	64	54·5	42·4	48·5	—	58	10, 11	34	22,23,24	—	—	4·97	—	1·22	9th	26	0	0	0	0	3	2·34	+0·21	27	+ 2
a Swansea	24	54·1	45·4	49·8	—	58	2nd	35	21st	50·3	54·3	8·15	—	1·31	20th	27	0	0	0	2	8	1·84	—	21	—
a Clifton ¶	229	53·3	43·3	48·3	+ 3·8	58	2, 10, 11	33	23rd	—	—	3·12	−0·15	0·73	11th	23	—	—	—	—	1	2·21	—	25	—
a Weston-Super-Mare	29	53·7	44·1	48·9	—	59	2, 10	34	23rd	—	—	3·67	—	0·93	11th	20	0	0	0	1	6	1·89	—	22	—
a Minehead	104	55·3	42·9	49·1	—	63	10th	32	23rd	—	—	3·82	—	0·60	11th	21	0	1	0	0	1	3·01	—	35	—
a Ilfracombe	24	54·7	47·9	51·3	—	61	10th	39	23rd	50·7	54·8	6·57	—	1·06	11th	28	0	0	0	0	0	1·85	—	21	—
a Bude	49	55·5	46·2	50·9	—	61	10th	34	23rd	—	—	4·13	—	0·47	11th	26	0	0	1	3	—	2·27	—	26	—
a Arlington ¶	613	51·8	42·6	47·2	+ 3·3	59	10th	34	23rd	—	—	8·31	+2·63	0·89	11th	28	0	0	0	0	—	—	—	—	—
a Cullompton ¶§	202	54·4	39·9	47·2	+ 3·4	59	10th	26	23rd	48·9	—	3·92	+0·28	0·87	11th	26	0	0	0	3	9	2·05	+0·18	23	+ 2
a Rousdon	515	53·4	43·5	48·5	+ 4·0	57	10, 11	36	22nd	49·8	52·5	3·30	−0·32	0·54	11th	19	0	0	1	5	3	2·45	—	28	—
a Sidmouth	147	54·8	43·9	49·4	—	59	9, 10	36	23rd	—	—	3·66	—	0·84	11th	20	0	1	1	0	10	—	—	—	—
a Exmouth	11	55·8	44·1	50·0	—	59	9th	30	23rd	—	—	3·04	—	0·79	11th	18	—	—	—	—	—	2·37	—	27	—
a Killerton	160	54·6	39·6	47·1	—	59	2nd	25	23rd	—	—	3·24	—	0·68	11th	17	0	0	0	1	8	—	—	—	—
a Shaftesbury ¶	722	51·3	41·7	46·5	+ 3·5	57	2nd	35	22, 23	48·0	52·2	3·11	−0·45	0·73	21st	20	—	—	—	—	—	—	—	—	—
a Dorchester	314	53·0	41·9	47·5	—	57	11th	29	23rd	—	—	4·06	—	0·74	21st	18	0	0	0	2	—	2·35	—	27	—
a Weymouth	21	55·8	45·9	50·9	—	60	1, 11	33	23rd	—	—	3·20	—	0·72	12th	19	0	0	1	0	—	2·61	—	30	—
a Torquay	12	56·4	45·0	50·7	—	60	9, 10, 27	34	23rd	—	—	3·54	—	0·80	11th	20	0	0	0	0	1	3·14	+0·94	36	+11
p Paignton	11	56·1	42·4	49·3	—	60	9, 10, 11	29	23rd	—	—	3·93	—	0·83	11th	20	0	0	0	2	1	3·31	—	38	—
a Salcombe	39	54·9	45·1	50·0	—	59	3, 10	33	23rd	—	—	3·91	—	0·62	11th	24	0	0	0	1	—	2·67	—	30	—
a Tavistock	374	53·7	41·3	47·5	—	65	12th	32	23rd	—	—	6·75	—	0·86	11th	24	0	2	1	6	12	—	—	—	—
a Ashburton	583	55·6	43·5	49·6	—	65	29th	37	19th	—	—	6·74	+0·79	1·20	11th	21	0	0	0	0	—	—	—	—	—
a Fowey	51	55·7	44·6	50·2	—	62	10th	36	22nd	—	—	4·58	—	0·90	9th	23	0	0	0	3	—	2·55	—	29	—
a Redruth	397	52·8	44·9	48·9	—	57	1, 10	39	23rd	—	—	6·28	—	1·06	9th	28	0	1	1	4	—	—	—	—	—
a Penzance	54	55·5	47·8	51·7	—	59	1, 3, 17	40	24th	—	—	4·77	—	0·51	20th	28	0	2	0	7	—	2·25	—	25	—
9. IRELAND, N.																									
p Dunfanaghy	54	51·4	43·0	47·2	—	56	10th	38	6, 24	—	—	6·84	—	1·34	23rd	28	0	1	0	0	—	—	—	—	—
a Lisburn	207	—	37·6	—	—	—	—	28	22nd	—	—	4·30	—	1·00	12th	21	0	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	53·6	41·0	47·3	+ 3·2	59	10th	30	4th	—	—	2·16	−0·62	0·59	7th	21	0	1	0	0	14	—	—	—	—
a Kingstown	42	54·3	44·3	49·2	—	59	10,16,28	38	4, 22	—	—	2·96	—	0·84	7th	19	—	—	—	—	—	3·04	—	36	—
p Clongowes Wood Col.	245	52·1	37·9	45·0	—	58	10, 11	29	22nd	—	—	2·66	—	0·46	7th	21	0	0	0	1	—	2·41	—	29	—
a Mountmellick	239	51·8	40·1	46·0	—	57	10th	30	4, 22	—	—	4·00	—	0·57	10th	25	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	52·6	41·9	47·3	—	60	16th	35	24th	—	—	4·18	—	0·76	9th	20	0	0	0	0	—	—	—	—	—
a Kilkenny	195	52·8	40·1	46·5	+ 2·4	57	10th	27	22nd	—	—	3·23	+0·18	0·45	9th	25	0	0	0	0	—	—	—	—	—
a Cahir ¶	199	52·7	39·6	46·2	+ 1·9	59	28th	30	22nd	—	—	4·90	—	0·59	10th	29	0	0	0	2	—	—	—	—	—
a Wexford	99	53·1	43·4	48·3	—	59	27th	36	22nd	—	—	3·74	—	0·91	9th	17	0	0	0	1	—	—	—	—	—
a Waterford ¶	100	53·4	41·8	47·6	+ 2·8	58	27th	30	22nd	—	—	4·06	+0·07	0·68	9th	17	0	0	1	4	—	—	—	—	—
p Waterford Trg. Coll.	20	53·6	41·6	47·6	—	58	27th	32	22, 24	—	—	4·10	—	0·66	9th	18	0	0	0	1	—	—	—	—	—
p Carrick-on-Suir	541	52·1	41·0	46·6	—	57	17, 18	35	13,22,24	—	—	5·05	—	0·70	9th	25	0	0	0	3	3	2·60	—	30	—
a Foynes ¶	108	52·0	41·9	47·0	+ 2·0	56	10th	36	1st	—	—	5·53	+1·42	0·66	22nd	28	0	0	0	0	—	—	—	—	—
a Killarney ¶	174	54·5	43·2	48·9	+ 3·2	60	4, 16	34	22nd	—	—	7·48	+1·50	0·90	12th	27	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	53·3	41·4	47·4	—	58	17th	31	22, 24	—	—	5·52	—	1·16	10th	23	0	0	1	3	—	1·86	—	22	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	189	55·7	46·9	51·3	+ 2·6	61	9, 11	38	23rd	—	—	4·58	−0·19	0·63	21st	23	0	1	0	0	—	2·42	+0·35	27	+ 4

DISTRICT VALUES—NOVEMBER, 1913.

Districts.	Air Temperature. Highest.	Lowest.	Means of Daily Max.	Daily Min.	Daily Mean.	Difference from Average.	Earth Temperature. At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Rainfall. Total.	Difference from Average.	No. of Days.	Sunshine. Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	Cloud. Mean Amount (0–10). I.	II.	III.	Pressure at M.S.L. Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	59	25	49·2	39·6	44·4	+2·2	44·9	+2·2	—	—	8·67	+3·15	25	1·24	+0·04	16	0	7·7	7·4	7·2	30·15	26th	28·76	14th
Eastern.																								
1. SCOTLAND, EAST ...	61	22	49·6	38·3	44·0	+2·6	43·4	+2·4	47·6	+1·7	2·40	−0·62	19	2·14	+0·46	27	+ 6	7·1	—	6·9	30·18	22nd	28·92	12th
2. ENGLAND, N.E. ...	60	25	51·5	40·7	46·1	+2·9	45·0	+2·4	49·3	+1·2	1·82	−0·58	20	2·36	+0·53	28	+ 6	6·7	—	6·3	30·35	22nd	29·00	12th
3. ENGLAND, EAST ...	60	24	53·3	41·5	47·4	+4·0	48·0	+3·2	51·7	+1·7	2·12	−0·07	17	2·78	+0·67	32	+ 7	7·0	6·2	5·9	30·41	28th	29·04	13th
4. MIDLAND COUNTIES	62	22	52·7	39·7	46·2	+3·5	46·2	+2·7	50·3	+1·1	2·30	−0·14	19	2·26	+0·50	27	+ 6	6·5	7·0	6·4	30·48	28th	29·06	13th
5. ENGLAND, S.E. ...	62	21	54·2	42·6	48·4	+3·3	49·1	+4·0	52·7	+2·2	3·07	+0·13	18	2·52	+0·48	29	+ 6	7·2	7·0	6·2	30·48	19th	29·14	13th
Western.																								
6. SCOTLAND, WEST ...	60	25	50·6	41·3	46·0	+2·2	45·6	—	48·8	+1·6	6·14	+0·78	26	1·63	+0·06	20	+ 1	7·9	—	7·2	30·26	28th	28·99	12th
7. ENGLAND, N.W. ...	60	26	52·1	42·9	47·5	+3·2	46·7	+3·3	50·0	+1·8	3·96	+0·37	25	1·81	+0·17	22	+ 2	7·3	7·3	7·0	30·48	28th	29·07	12th
8. ENGLAND, S.W. ...	65	23	53·4	43·5	48·5	+2·6	49·3	+2·8	52·8	+1·5	4·76	+0·52	23	2·09	+0·03	24	0	7·0	7·5	7·2	30·55	28th	29·05	12th
9. IRELAND, NORTH ...	58	28	51·8	41·4	46·6	+2·5	46·7	+3·0	50·5	+1·1	4·38	+0·43	25	2·03	+0·12	25	+ 2	6·9	7·0	7·4	30·44	28th	28·96	12th
10. IRELAND, SOUTH ...	60	27	53·0	42·1	47·6	+2·0	48·0	+2·5	50·7	+1·1	4·70	+0·56	25	1·74	−0·47	20	− 6	7·2	7·5	6·8	30·56	28th	29·03	11th
11. ENGLISH CHANNEL ...	62	38	55·5	47·3	51·4	+1·9	51·5	+2·4	54·7	+1·2	4·14	+0·29	24	2·23	−0·22	25	− 3	7·1	7·8	7·5	30·57	28th	29·13	12th

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
	hr.		%	
5. ENGLAND, S.E.				
Broadstairs ...	2·65	—	30	—
Littlestone§ ...	2·46	—	28	—
Hove	2·61	—	30	—
Westbourne ...	2·07	—	24	—
LONDON.				
Bunhill Row ...	1·22	+0·49	14	+ 6
Plumstead ...	2·15	—	25	—
Richmond ...	2·48	—	29	—
8. ENGLAND, S.W.				
Port Talbot ...	1·67	—	19	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Date.	No. of days.
	in.	in.	in.		
5. ENGLAND, S.E.					
Broadstairs	2·77	—	0·55	10th	19
LONDON.					
South Wimbledon ...	1·96	—	0·64	21st	15
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	4·45	—	0·84	11th	18
Forest of Dean (900 ft.)	4·76	—	1·03	11th	21

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. At Aberdeen, Eskdale, Kew, and Valencia these readings are for the twenty-four hours ended at midnight. Local time is used except at the First Order Observatories and Telegraphic Reporting Stations where G.M.T. is used. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 0, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ⊱ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, December 23rd, 1913.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* } No. XII. DECEMBER, 1913. [*Price 6d.*

DRY: USUALLY MILD.

Pressure, Winds and Weather.—During the earlier half of the month one distinct type of pressure distribution predominated, the only interruption being between the 4th and 7th, when a ridge of relatively high pressure stretched over these Islands in a north-westerly direction from the Continent. With this exception the barometer was highest either over the Bay and Peninsula or France, and very occasionally over South Germany, the readings often exceeding 30·3 in., and sometimes exceeding 30·4 in. while a vast band of low pressure extended from the northern regions of Europe across Iceland, and on towards the northern regions of Canada. Within this area cyclonic centres, several of them of great depth, travelled in a general easterly direction, and at the same time extended more or less over the United Kingdom, where the gradient was sometimes accentuated or reduced by the passage of a secondary disturbance. The main wind current over the British Isles was consequently South-Westerly to Westerly, although there was an occasional veering towards North-West. The mean velocity was rather high, and gales were frequent on exposed parts of the northern and north-western coasts. On several occasions the force of a gale was experienced over a larger area, but the only really general gale occurred on the 3rd. On that date the centre of a deep depression moved from west to east beyond the north of Scotland, and a secondary directly over that country, and as the latter became still deeper during its passage, the wind rose to a gale in almost all parts of the Kingdom. The force of a strong to whole gale was reported on many coasts, and some of the gusts were of great violence. At Holyhead there was a gust of 71 miles an hour, at Falmouth 74 miles, at Bellingham 75 miles, and at Southport 82 miles. In the rear of the centre on the 4th a squally gale from between West and North-West occurred on numerous parts of the coast. At Holyhead a gust attained the velocity of 77 miles an hour, and gale force was maintained for 12 hours, while at Southport there was a gust of 68 miles. This depression gave the lowest barometer reading of the month, the level of 28·71 in. being recorded in the east of Scotland. From this date until the pressure distribution underwent a change the only parts of the United Kingdom affected by gales were the extreme north-west, north and north-east coasts, and the velocity was seldom as high as 50 miles an hour. The change in the pressure distribution on the 16th was brought about by a depression moving south-eastward down the North Sea, pressure becoming at the same time highest off our south-west coasts. A very decided increase in the gradient, for North-Westerly winds, was followed by a gale over the northern half of the Kingdom, the gusts reaching 57 miles an hour at Holyhead, and 61 miles at Aberdeen. By the time the depression was situated over Germany, on the 17th, the centre of the anticyclone was over Ireland, and the wind was Northerly to North-Westerly over the British area. The high pressure system now increased in intensity, and by the 21st the highest readings of the month were recorded. Over a considerable portion of Ireland the figure was 30·7 in., reaching 30·71 in. in the southern section. This was the highest value of the month—just 2 in. above the minimum of the 3rd. Having attained its maximum the high pressure system moved away over France to northern Italy and lost much of its intensity, while another depression travelled between Iceland and Norway, and a shallow disturbance, causing much rain in the south-west of England, made a temporary appearance over the Bay of Biscay. By the 24th the gradient over this country was for North-Westerly and Northerly winds, but a new depression, in Iceland, with high pressure stretching from the Azores to France, brought about a reversion to South-Westerly and Westerly types during the 25th and 26th. This was followed by a return to North-Westerly and Northerly types until the 30th, when an elongated anticyclone, which had developed to the westward of these Islands, came directly over the Kingdom. With the disturbance of the 26th strong wind and gales from South-West, veering towards North-West, were experienced throughout the British Isles. At Holyhead the gusts reached the rate of 62 miles an hour, at Southport 70 miles, and at Scilly and Brighton 53 miles, while on the succeeding day gusts from the North-Westward of 57 miles were registered at Holyhead, 60 at Hexham, 63 at Southport, and 52 at Brighton. During the whole month gales or squalls of gale force were recorded in some part of the British Islands on as many as 23 days.

As will be gathered from the map 2, on page cxxv the only depressions that moved in a path directly over these Islands were some "V" shaped secondaries during the first week, nearly all the systems—which were very numerous—travelling eastward along a track to the northward or north-eastward between Iceland and Greenland. The West North-Westerly trend of the isobars over these Islands and their immediate neighbourhood, shown on map 1, page cxxv existed far to the northward and southward also, as is proved by the lowest mean pressure reading, 29·47 in., being at Bodö, and the highest, 30·24 in., at Lisbon. Over these Islands the mean range of pressure between Lerwick and Jersey was ·478 in. against an average of ·313 in.

Owing to the great distance of most of the low centres and to the scarcity of secondaries over this country, the month as a whole was very dry. Many consecutive days after the first week were quite rainless over a wide area in England. At Tottenham no rain fell between the 7th and 22nd—a period of 16 days; and at Durham there were 20 days without rain—from the 5th to the 24th. Nearly all the precipitation came in the form of rain; but snow was experienced in several localities early in the month. Late in the month, after the change to Northerly conditions, it was general. At Ampleforth on the 4th 7 inches of snow fell in 2 hours, and measured 0·63 in. of water when melted; at Strathpeffer the depth of snow on the 29th was 8½ in., and at Rounton on the 30th 9½ in. Rain measurements of an inch within 24 hours were rare at ordinary levels, but occurred in the east of Scotland on the 3rd, in the Channel Isles and extreme south-west of England on the 5th or 6th, and again on the 22nd or 23rd. In the mountainous regions of the west and north heavy falls were less uncommon. At Seathwaite 1·8 in. fell on the 2nd, and at Fort William and Glencarron the figure was about 1·5 in. On the 3rd or 4th a very large area in Scotland, Wales, the north-west of England, and some Irish localities received more than an inch; Carnoustie 1·9 in., Seathwaite 2 in., Copper Mill 2·1 in., and Pen-y-Gwryd 2·7 in. Further heavy falls occurred on the 14th or 15th, and also with the stormy conditions towards the end of the month. At Seathwaite there was a downpour of 3 in. on the 25th, at Pen-y-Gwryd 2·5 in. on the 26th, and at Intake (Snowdonia) 2·8 in. on the 28th.

Thunderstorms were rather numerous for the time of year both early and late in the month. During the first week they were experienced at several places in Ireland and Scotland, as well as in Wales and the west of England, and with the colder conditions of the 28th and 29th they occurred in all districts, sometimes accompanied by snow.

Except during the first week and on several days late in the month the general level of temperature was much above the average. Maximum readings above 50° were very common, and the minima of the nights were also relatively high. On some occasions, especially on the 8th and 9th, the thermometer rose to 55° or above over a wide area, reaching 59° at Gordon Castle, Colwyn Bay, and Dublin (Glasnevin) The highest reading of all, however, occurred at Sandown, Isle of Wight, on the 1st, the figure being 60°. The cold snap of the 6th and 7th gave some very low minima locally in the north. At Kingussie on the 6th there was a reading of 9°, and at Balmoral on the 7th one of 5°. Late in the month the cold was more general, and the coldest night was the 31st, when a reading of 4° was recorded at Braemar, and over a large portion of Scotland, England, and Wales the figure was between 9° and 13°. At Worksop the grass thermometer went down to −4°. The general mildness of the month is proved by one or two notes by the observers. At Rochford, Worcestershire, "Ripe wild strawberry picked from roadside on the 14th; abnormally large," and at Totland Bay "Blackberries in full bloom on the 17th and 28th."

The mean temperature of the sea surface water was very generally above the average, and also above the temperature on land.

Fog was reported on a few occasions on the south-west and east coasts, but as a whole the atmosphere was clear for December, especially inland.

Rainfall.—A few places in the north and north-west had an excess. At Strathpeffer there was 129 per cent., at Poltalloch 126 per cent., and at Malin Head 137 per cent., Crieff had only 46 per cent., Deerness, Spurn Head, and Westminster 43 per cent., Holyhead 41 per cent., Nottingham 36 per cent., Roche's Point 30 per cent., Rauceby 28 per cent., and Little Massingham 22 per cent.

Bright Sunshine varied greatly in the different localities. At Deerness the percentage of the average was only 26; at Worksop and Newton Rigg it was 61 or 62 per cent., and at Fort Augustus and York 72 or 73 per cent. At Oxford it was 124, Aberdeen 130, Westminster 140, Southport 148, Cullompton 156, and at Glasgow as much as 188 per cent.

(126—19.) Wt. 196—786. 1475. 1/14. D & S. G. 17/33.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.							EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.											
						Mean of				Absolute Maximum and Minimum.					Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
			Station Level.	Diff. from Av.	Mean Sea Level.	A. Max.	B. Min.	Mean of A and B.	Difference from Average.	Max.	Day.	Min.	Day.	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands *a* Castlebay	7, 1, 9	48	9·863	+·193	9·929	47·3	41·3	44·3	+2·6	53	8th	32	4th	—	—	44·7	45·1	44·8	1·6	1·7	1·7	·259	·261	·257	88	87	87
Islands *p* Deerness §	9, –, 9	163	9·608	—	9·783	44·4	37·2	40·8	+1·1	53	9th	30	5, 6	—	—	40·5	—	40·7	1·5	—	1·6	·225	—	·225	88	—	87
Islands *a* Lerwick ¶	7, 1, 9	59	9·646	+·024	9·713	44·3	36·5	40·4	+0·8	51	8th	29	25th	—	—	41·1	41·7	41·0	1·9	2·3	2·2	·218	·217	·211	85	83	83
Islands *a* Stornoway ¶§	7, 1, 9	52	9·821	+·164	9·873	44·7	37·9	41·3	+2·0	55	8th	23	6th	—	—	41·4	41·9	41·3	1·5	0·9	1·6	·230	·246	·227	89	93	88
Mainland *a* Wick ¶	7, 1, 9	94	9·712	+·098	9·820	43·6	34·1	38·9	+0·5	54	8th	18	7th	—	—	39·4	40·2	39·3	1·0	1·2	1·0	·222	·224	·221	92	90	92
Mainland *p* Strathpeffer §§	9, –, 9	210	9·644	—	9·871	45·5	34·4	40·0	+3·6	57	8th	15	6th	—	—	38·8	—	39·2	1·7	—	1·6	·203	—	·208	86	—	87
Mainland *a* Glencarron § ¶§	9, –, 9	504	9·371	—	9·932	43·1	34·5	38·8	+1·8	52	8th	18	6, 30, 31	—	—	39·7	—	39·1	1·6	—	1·4	·212	—	·211	87	—	89
Mainland *p* Ft. Augustus § ¶§	9, –, 9	73	9·858	—	9·935	44·0	34·1	39·1	+1·1	56	9th	15	31st	—	—	38·9	—	39·2	0·9	—	0·7	·219	—	·226	93	—	94
Mainland *p* Ft. William § ¶	9, –, 9	38	9·899	—	9·937	44·2	35·5	39·9	+0·5	55	8th	18	31st	—	—	40·0	—	40·1	1·8	—	1·7	·216	—	·220	85	—	86
Mainland *p* Kingussie §	9, –, 9	828	8·992	—	9·909	41·7	31·2	36·5	—	54	9th	9	6th	—	—	36·5	—	36·7	1·9	—	1·6	·181	—	·188	83	—	87
Mainland *p* Dunrobin §	9, –, 9	16	9·829	—	9·842	43·7	35·0	39·4	+0·7	55	9th	24	7, 30	40·0	—	39·5	—	39·5	1·7	—	1·1	·209	—	·220	86	—	91
1. SCOTLAND, E.																											
a Nairn ¶§	7, 1, 6	82	9·781	+·129	9·876	43·9	34·4	39·2	+1·7	55	8th	15	6, 7	—	—	39·7	41·2	39·7	2·0	2·2	1·5	·205	·213	·214	84	83	88
p Gordon Castle § ¶	9, –, 9	107	9·758	—	9·873	44·9	35·1	40·0	+1·6	59	9th	18	6th	—	—	39·7	—	40·1	1·8	—	1·7	·209	—	·214	85	—	86
Aberdeen ¶§	9, 3, 9	88	9·782	+·093	9·881	43·5	34·3	38·9	+0·9	55	8th	21	31st	—	43·4	38·1	40·3	38·7	2·5	2·7	2·2	·186	·201	·195	77	78	80
			9·781	+·092	9·880			38·8	+0·3																		
a Balmoral § ¶	9, 3, –	927	8·852	—	9·880	43·0	29·2	36·1	—	55	8th	5	7th	—	—	34·6	41·8	—	1·9	—	—	·163	—	—	81	—	—
p Braemar §	9, –, 9	1114	8·700	—	9·923	40·6	29·9	35·3	+0·8	53	8, 9	4	31st	—	—	34·9	—	35·5	1·7	—	1·8	·169	—	·174	83	—	84
p Dundee §	9, –, 9	164	9·753	—	9·932	43·5	33·8	38·7	+1·3	53	9th	20	6th	—	—	38·2	—	38·2	1·3	—	1·2	·204	—	·206	89	—	90
p Crieff § ¶	9, –, 9	436	9·452	—	9·933	43·6	33·6	38·6	+1·5	54	9th	19	6th	—	—	38·6	—	38·6	1·9	—	1·7	·198	—	·201	85	—	86
a Leith ¶	7, –, 6	37	9·887	+·120	9·931	45·6	36·9	41·3	+1·9	54	3rd	22	6, 7	—	—	41·0	—	41·9	2·2	—	2·5	·211	—	·216	83	—	82
p West Linton S ¶	9, 3, 9	805	—	—	—	42·0	30·0	36·0	−0·3	54	8th	10	6, 31	—	—	36·4	—	—	1·1	—	—	·195	—	—	91	—	—
p Marchmont § ¶§	9, –, 9	500	9·409	—	9·965	43·3	33·6	38·5	+1·9	52	9th	21	6th	38·9	—	38·4	—	37·9	1·7	—	1·5	·199	—	·199	87	—	88
2. ENGLAND, N.E.																											
p Whitby	9, –, 9	158	9·804	—	9·972	45·6	36·6	41·1	+0·8	53	2, 3, 15	20	31st	—	—	42·1	—	40·9	2·4	—	2·0	·221	—	·219	81	—	84
p Cockle Park §	9, –, 9	331	9·606	—	9·969	43·9	34·8	39·4	—	54	8th	22	31st	38·7	43·5	39·3	—	39·0	1·2	—	1·2	·219	—	·220	88	—	89
North *a* Shields ¶	7, –, 6	117	9·846	+·125	9·974	45·5	36·6	41·1	+2·0	56	8th	24	31st	—	—	40·3	—	41·0	2·1	—	2·2	·208	—	·211	84	—	83
North *p* Durham §§	9, –, 9	352	9·606	—	9·992	44·1	34·9	39·5	+2·0	54	9th	16	31st	—	—	39·2	—	39·6	1·8	—	1·6	·211	—	·216	86	—	87
North *p* Rounton ¶	9, –, 9	245	9·726	—	9·993	43·8	33·8	38·8	+1·3	55	9th	9	31st	40·5	—	38·3	—	38·5	1·6	—	1·3	·200	—	·207	87	—	89
North *p* Scarborough §§	9, –, 9	127	9·876	—	0·003	45·3	37·3	41·3	+2·1	53	9, 15	29	6th	—	46·1	41·0	—	41·3	1·8	—	1·8	·223	—	·225	86	—	85
North *p* York §§	9, –, 9	53	9·980	—	0·033	45·2	36·2	40·7	+2·5	55	9th	19	6th	42·9	46·6	39·4	—	40·1	1·6	—	1·5	·210	—	·217	87	—	88
South *a* Spurn Head ¶	7, 1, 6	28	9·965	+·113	9·996	44·9	38·1	41·5	+1·9	52	3, 8, 9	30	29th	—	—	41·7	43·2	42·9	1·2	1·0	1·3	·239	·257	·248	91	92	90
South *a* Lincoln	9, –, –	42	0·015	—	0·054	44·9	35·9	40·4	+3·0	54	9th	22	31st	40·8	46·7	39·7	—	—	1·2	—	—	·224	—	—	90	—	—
South *a* Skegness §	9, –, –	16	0·056	—	0·066	45·2	33·8	39·5	—	55	8th	24	25th	—	—	40·6	—	—	1·6	—	—	·219	—	—	87	—	—
South *p* Hull	9, –, 9	12	0·024	—	0·029	45·2	36·6	40·9	+3·0	53	2, 3, 9	23	6th	40·9	46·9	40·3	—	41·3	1·8	—	2·1	·214	—	·217	86	—	84
3. ENGLAND, E.																											
North *p* Lowestoft	9, 3, 9	77	9·970	—	0·055	46·0	35·6	40·8	+1·6	54	9th	26	29th	41·2	46·8	42·2	43·1	41·0	1·8	2·2	1·5	·236	·236	·233	86	84	87
North *p* Cromer §§	9, –, 9	139	9·879	—	0·027	46·0	37·3	41·7	—	53	8, 9	31	25, 30, 31	—	—	40·4	—	40·7	1·4	—	0·6	·222	—	·241	89	—	95
North *p* Lit. Massingham §§	9, 3, 9	280	—	—	—	44·2	34·8	39·5	+2·0	53	3rd	26	31st	—	—	38·8	41·0	38·9	1·3	1·8	1·7	·211	·219	·204	90	86	87
North *a* Yarmouth ¶	7, 1, 9	27	0·015	+·117	0·043	45·1	35·9	40·5	+1·9	53	3, 8, 9	27	26, 29	42·0	47·1	40·3	43·4	41·3	1·0	1·7	1·6	·229	·245	·227	92	87	88
North *p* Geldeston §§	9, –, 9	47	0·012	—	0·057	46·1	35·2	40·7	+2·1	54	3, 12	25	6th	—	—	39·1	—	40·3	0·9	—	1·3	·221	—	·223	93	—	90
South *p* Cambridge §§	9, –, 9	43	0·027	—	0·070	45·4	35·6	40·5	+2·5	55	9th	25	19th	42·1	47·3	39·4	—	40·4	0·8	—	1·2	·230	—	·231	93	—	90
South *a* Claeton §§	7, 1, 9	54	0·016	+·116	0·078	44·9	37·5	41·2	+2·3	53	9, 12	29	23, 29, 31	43·7	48·8	40·7	43·7	41·5	1·5	2·3	1·9	·222	·235	·223	88	82	86
South *p* Woburn	9, –, 9	294	9·793	—	0·115	44·7	35·5	40·1	—	53	9, 12	21	31st	—	—	39·6	—	39·9	1·3	—	1·4	·221	—	·223	89	—	89
South *p* Bennington	9, 3, 9	411	—	—	—	44·6	35·4	40·0	+1·9	53	12th	26	31st	42·8	46·4	39·5	41·7	39·6	1·0	1·9	1·2	·225	·229	·223	90	85	89
South *p* Berkhamsted	9, –, 9	397	9·679	—	0·116	45·0	35·2	40·1	+1·9	53	2, 9, 12	25	31st	41·7	—	39·2	—	39·8	1·2	—	1·5	·218	—	·218	89	—	87
4. MIDLAND COUNTIES.																											
East *a* Garforth	9, –, 9	198	—	—	—	44·6	35·0	39·8	—	55	8th	12	31st	42·9	46·3	39·4	—	40·4	1·6	—	1·6	·217	—	·224	87	—	87
East *p* Huddersfield	9, 3, 9	411	9·575	—	0·031	43·9	36·8	40·4	—	53	9th	22	31st	41·3	46·2	39·3	41·4	40·1	1·4	2·0	1·6	·215	·221	·220	87	83	87
East *p* Sheffield §	9, –, 9	450	9·558	—	0·050	45·1	38·1	41·6	+2·4	55	9th	26	31st	42·3	46·6	40·6	—	41·5	2·1	—	2·3	·215	—	·217	83	—	81
East *a* Worksop	9, –, 9	67	9·984	+·137	0·052	45·5	34·8	40·2	+2·5	56	8th	10	31st	42·0	45·8	39·1	42·0	—	1·4	2·1	—	·211	·223	—	89	84	—
East *p* Buxton	9, 3, 9	997	8·977	—	0·082	41·6	33·8	37·7	+1·7	49	8, 9, 15	14	31st	41·5	46·3	37·9	39·2	37·0	1·3	1·4	1·5	·203	·212	·191	89	88	87
East *p* Belvoir Castle	9, –, 9	276	9·778	—	0·080	44·7	36·0	40·4	+2·6	53	1, 9, 15	17	31st	42·0	47·2	38·6	—	40·2	1·5	—	1·8	·205	—	·213	88	—	86
East *a* Coventry	9, –, –	309	9·761	—	0·099	44·9	36·5	40·7	+2·4	54	9, 12	25	31st	43·1	48·5	40·5	—	—	1·7	—	—	·217	—	—	86	—	—
East *a* Thrapston	9, 3, –	251	—	—	—	44·2	35·1	39·7	—	53	9, 12	25	31st	—	—	39·4	42·4	—	1·3	2·0	—	·216	·229	—	90	85	—
West *a* Nottingham §§	7, 1, 9	85	9·971	+·135	0·068	45·1	36·3	40·7	+2·5	54	8, 9, 12	27	29th	40·7	45·5	40·4	43·4	41·1	1·3	2·1	1·6	·224	·236	·224	90	83	87
West *p* Birmingham §§	9, –, 9	542	9·506	—	0·103	44·1	37·1	40·6	+1·9	52	9, 12	25	31st	43·0	47·9	39·3	—	40·2	1·8	—	1·9	·207	—	·214	84	—	85
West *p* Oxford §§	8, –, 8	212	—	—	—	45·5	37·0	41·3	+2·4	54	3rd	24	31st	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			9·886	+·170	—			41·2											1·9			·219			85		
West *a* Bath §§	7, –, 6	84	0·040	+·177	0·140	47·3	36·2	41·8	+1·1	56	2nd	25	21, 31	43·7	48·8	39·9	—	42·9	1·5	—	2·2	·216	—	·230	88	—	84
West *p* Shrewsbury ¶	9, –, 9	212	9·867	—	0·096	46·8	36·5	41·7	+0·7	55	8, 9	18	31st	—	—	40·7	—	41·4	1·6	—	1·8	·227	—	·228	88	—	85
West *p* Wistanstow	9, –, 9	484	9·566	—	0·099	45·2	36·6	40·9	—	54	8, 9	18	31st	—	—	40·8	—	40·3	0·7	—	0·6	·239	—	·238	95	—	96
West *p* Bromyard	9, –, 9	400	9·666	—	0·105	45·4	36·7	41·1	—	54	9th	22	31st	41·8	46·8	40·4	—	40·5	1·7	—	1·7	·223	—	·224	86	—	86
West *p* Cheltenham	9, –, 9	206	9·901	—	0·122	45·3	36·1	40·7	+1·8	58	12th	22	31st	—	—	41·1	—	40·2	1·5	—	1·4	·226	—	·220	88	—	89
5. ENGLAND, S.E.																											
p Reading	9, –, 9	264	9·823	—	0·110	44·9	35·4	40·2	—	53	1, 9, 12	27	22, 31	—	—	39·5	—	40·3	0·7	—	0·7	·228	—	·236	94	—	95
p Salisbury (Wilton) ¶	9, –, 9	186	—	—	—	45·8	35·0	40·4	+2·2	54	1, 9, 12	21	31st	43·5	—	39·8	—	40·5	1·1	—	1·2	·223	—	·226	92	—	90
a Grayshott	9, 2, –	659	9·401	—	0·138	43·6	35·6	39·6	—	52	12th	25	31st	41·7	—	38·7	42·5	—	0·8	1·9	—	·220	·232	—	94	85	—
a Midhurst	9, 2, –	453	9·573	—	0·122	44·5	36·9	40·7	—	54	1, 12	27	31st	—	—	40·2	43·1	—	1·0	2·1	—	·231	·238	—	90	84	—
a Brighton	9, –, –	48	—	—	—	46·9	40·0	43·5	+2·3	55	1st	29	31st	—	48·6	—	—	—	—	—	—	—	—	—	—	—	—
a Portsmouth	9, –, –	18	0·122	—	0·137	47·3	39·6	43·5	+2·4	56	1st	29	29, 31	45·6	50·2	43·2	—	—	1·1	—	—	·255	—	—	91	—	—
p Eastbourne §	9, –, 9	36	0·087	—	0·131	48·4	39·5	44·0	+3·4	57	12th	30	20, 29, 31	45·8	50·7	43·6	—	43·2	2·0	—	1·9	·248	—	·246	85	—	85
a Dover	7, –, 6	234	9·827	+·251	0·090	45·4	37·1	41·3	—	53	1, 9	27	30th	45·1	50·1	41·2	—	41·9	1·5	—	1·9	·227	—	·226	89	—	86
a Dungeness	7, 1, 6	21	0·078	+·139	0·103	46·7	37·8	42·3	+1·4	54	1st	26	26, 30	—	—	42·1	45·6	43·4	1·8	2·9	2·1	·230	·242	·236	86	80	83
p Hastings ¶	9, –, 9	174	9·928	—	0·113	46·5	38·4	42·5	+1·7	54	1, 2	28	29th	43·6	49·1	41·9	—	41·7	1·7	—	2·0	·230	—	·223	88	—	86
p Southampton ¶§	9, –, 9	84	0·056	—	0·142	46·9	38·5	42·7	+2·0	56	1st	28	31st	—	—	41·7	—	42·5	1·3	—	1·6	·244	—	·242	89	—	87
a Ventnor ¶§	9, 3, –	80	0·035	—	0·118	47·7	40·7	44·2	+1·0	56	1st	28	31st	—	—	44·2	45·8	—	2·1	3·0	—	·244	·243	—	84	80	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 3 feet.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the month of DECEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER, No. of Days of										WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
0·42	—	6	—	8·2	7·9	7·9	2·93	—	0·60	2nd	24	19	4	—	11	0	1	18	0	—	2	66	0	11	2	1	1	4	26	23	25	Castlebay.
0·21	−0·60	3	−10	7·5	—	6·0	4·50	+0·34	0·65	2nd	26	20	6	8	5	0	0	10	0	—	1	67	1	9	3	3	1	8	20	31	17	Deerness.
—	—	—	—	7·6	7·7	7·7	5·75	—	0·60	15th	30	**27**	**11**	—	7	0	0	14	0	—	**13**	43	2	9	2	2	4	12	22	24	16	Lerwick.
0·61	−0·16	10	− 2	7·2	8·0	6·8	5·25	−0·65	0·80	2nd	25	22	7	—	8	1	0	14	0	—	6	62	0	11	2	1	1	4	28	21	25	Stornoway.
—	—	—	—	6·8	6·9	6·4	3·51	+0·52	0·48	3rd	21	17	9	—	3	0	0	*2*	0	—	4	47	1	3	0	0	2	12	26	32	17	Wick.
0·77	−0·17	12	− 3	7·1	—	6·4	4·68	+1·05	0·66	1st	21	19	7	**11**	1	0	1	9	0	—	1	38	28	3	0	0	0	3	24	21	14	Strathpeffer.
—	—	—	—	8·8	—	6·9	12·51	+2·08	1·69	15th	25	22	6	4	0	0	2	20	2	—	3	75	3	12	2	4	0	0	2	34	36	Glencarron.
0·23	−0·09	4	− 1	8·1	—	6·7	5·81	−0·01	0·89	2nd	19	18	*4*	4	0	0	2	17	0	—	2	30	0	5	12	1	0	2	66	7	0	F. Augustus.
—	—	—	—	8·2	—	7·9	9·54	−0·32	1·43	2nd	23	20	*4*	5	0	0	**3**	**21**	**3**	—	0	17	13	0	2	7	3	2	56	9	1	Ft. William.
—	—	—	—	8·3	—	6·5	3·90	—	0·75	25th	21	17	6	8	0	0	2	17	0	—	1	35	12	6	2	1	2	0	15	48	7	Kingussie.
—	—	—	—	8·2	—	7·7	4·27	+1·16	0·57	3rd	19	*16*	7	2	0	0	1	17	0	—	1	8	23	1	2	7	1	0	11	42	6	Dunrobin.
0·59	—	9	—	7·2	6·9	7·4	2·95	+0·87	0·52	3rd	22	14	7	—	1	0	0	*6*	0	—	1	12	20	5	0	0	0	0	8	53	7	Nairn.
0·70	—	11	—	7·2	—	6·7	3·43	+0·69	0·76	3rd	17	**15**	**8**	5	0	0	0	9	0	—	0	11	0	3	2	0	3	16	36	15	18	Gordon C.
1·55	+0·36	24	+ 6	5·0	5·2	4·4	1·95	−1·11	0·85	3rd	14	11	7	5	0	0	7	8	0	—	0	24	12	4	0	0	0	7	23	30	17	Aberdeen.
—	—	—	—	6·6	—	—	2·97	—	0·65	3rd	14	14	**8**	11	0	0	6	12	0	21	**3**	24	0	12	0	0	0	0	15	36	30	Balmoral.
—	—	—	—	5·9	—	—	2·22	−1·08	0·48	3rd	18	12	**8**	**12**	0	0	1	7	0	18	1	27	0	18	3	0	0	3	39	24	6	Braemar.
—	—	—	—	8·0	—	7·3	1·29	−1·36	0·88	3rd	11	7	3	0	0	0	3	18	⊛	—	1	21	0	3	0	0	0	0	39	22	29	Dundee.
—	—	—	—	5·9	—	5·2	1·99	−2·32	0·67	3rd	15	7	*2*	5	0	0	**8**	10	0	—	2	38	0	10	9	11	0	0	0	44	19	Crieff.
—	—	—	—	6·4	—	5·5	1·34	−0·63	0·81	3rd	7	*5*	*2*	—	0	0	3	11	3	—	0	14	7	0	0	0	0	2	31	42	11	Leith.
0·87	—	13	—	7·5	—	—	3·12	—	1·24	3rd	16	10	3	2	0	0	5	**20**	0	—	—	—	—	—	—	—	—	—	—	—	—	West Linton.
0·94	−0·19	14	− 3	8·1	—	5·5	2·45	−0·50	0·66	3rd	15	9	6	4	0	0	2	14	0	14	1	24	0	6	0	2	1	3	11	54	16	Marchmont.
1·07	—	15	—	8·3	—	6·9	1·31	−1·06	0·29	30th	9	6	3	2	**3**	0	1	16	0	—	2	39	9	6	6	0	0	2	21	40	9	Whitby.
1·85	—	27	—	6·8	—	5·7	1·29	−1·43	0·45	26th	13	**10**	**6**	3	0	0	1	12	0	14	4	30	0	9	0	0	0	2	6	46	30	Cockle Park.
—	—	—	—	7·7	—	7·8	1·17	−1·00	0·48	26th	10	6	4	—	0	0	0	15	0	—	0	17	4	6	1	0	0	2	25	41	14	Shields.
1·17	−0·18	17	− 2	8·4	—	7·4	1·13	−1·20	0·57	29th	7	*4*	5	4	0	0	1	**19**	4	13	4	18	18	3	0	0	0	4	17	37	14	Durham.
—	—	—	—	7·9	—	7·0	1·76	−0·25	0·65	29th	12	5	4	3	0	2	2	18	5	20	1	18	10	2	3	0	0	16	21	14	27	Rounton.
1·22	—	17	—	7·3	—	7·7	1·20	−1·16	0·32	26th	14	8	*2*	0	0	0	0	11	**6**	—	0	36	0	6	6	3	1	0	21	5	51	Scarborough
0·59	−0·22	8	− 3	6·9	—	6·8	1·33	−0·71	0·44	29th	11	7	4	1	0	0	2	11	0	—	0	5	0	23	4	1	0	8	11	42	4	York.
1·20	—	16	—	6·1	7·0	6·9	0·75	−1·01	0·22	26th	10	7	3	—	2	0	0	*4*	2	—	**7**	73	4	4	10	5	0	2	17	33	18	Spurn Head.
—	—	—	—	5·7	—	4·2	0·60	−1·26	0·21	28th	6	5	*2*	0	0	0	**7**	9	0	—	2	17	0	5	7	2	0	0	12	48	19	Lincoln.
1·40	—	19	—	7·9	—	—	0·56	—	0·15	26th	12	*4*	*2*	0	0	0	2	16	3	—	0	63	0	12	6	3	0	6	45	12	9	Skegness.
0·59	—	8	—	7·4	—	6·3	1·56	−0·61	0·46	29th	14	7	4	**6**	1	0	3	15	1	10	0	8	15	0	8	0	0	0	25	25	20	Hull.
1·66	—	22	—	6·5	6·5	5·5	0·66	−1·33	0·16	4th	11	7	7	0	2	0	**3**	12	0	14	1	41	0	6	10	5	1	0	14	43	14	Lowestoft.
1·28	—	17	—	7·6	—	7·3	0·44	—	0·10	26th	17	*4*	0	0	0	0	0	**17**	0	—	0	65	1	3	4	2	5	12	22	36	8	Cromer.
1·34	+0·02	18	0	6·9	7·4	6·4	0·50	−1·77	0·13	26th	11	5	4	2	**4**	0	1	11	1	16	0	37	4	7	9	1	1	3	27	27	14	L. Mas'gh'm.
1·50	—	20	—	6·4	6·2	6·0	0·81	−1·30	0·24	30th	13	7	4	—	2	0	0	*3*	0	—	0	20	0	5	7	5	1	0	26	42	7	Yarmouth.
1·52	−0·03	20	− 1	7·8	—	7·1	0·89	−1·10	0·24	30th	17	7	**5**	1	0	0	0	14	2	—	0	5	2	9	6	1	0	2	24	40	9	Geldeston.
1·35	+0·06	18	+ 1	7·4	—	6·0	0·68	−0·94	0·16	4th	12	6	3	**3**	0	0	**3**	14	1	15	**4**	12	5	16	3	0	0	9	30	18	12	Cambridge.
1·54	—	20	—	7·8	7·4	7·7	0·61	—	0·15	26th	11	5	4	—	0	0	0	14	0	10	0	23	1	7	7	2	1	2	18	34	21	Clacton.
1·18	—	15	—	7·8	—	7·3	0·89	—	0·17	4th	14	**9**	4	1	0	0	2	16	2	—	2	21	11	3	9	4	0	0	24	34	8	Woburn.
1·33	—	18	—	7·4	7·7	6·6	0·74	−1·43	0·14	5th	12	7	2	**3**	1	0	1	14	2	17	0	7	13	4	9	5	0	0	10	44	8	Bennington.
1·40	—	18	—	7·5	—	6·6	0·77	−1·77	0·19	26th	15	7	4	0	2	0	2	14	2	19	0	5	30	4	0	3	0	2	11	31	12	Berkh'mst'd.
0·55	—	8	—	7·8	—	6·6	1·60	—	0·39	3rd	12	8	5	3	2	0	1	11	0	14	0	6	4	10	8	5	0	3	11	43	9	Garforth.
0·73	—	10	—	7·2	7·6	7·0	3·21	—	1·10	26th	18	11	**8**	3	2	0	3	16	1	9	**5**	26	13	9	2	1	0	2	13	39	14	Huddersf'ld.
0·85	—	12	—	7·6	—	7·4	1·95	−1·11	0·58	26th	11	7	6	0	0	0	2	15	1	10	0	29	3	12	2	0	0	4	30	27	15	Sheffield.
0·59	−0·38	8	− 5	7·9	7·5	7·3	1·34	−0·82	0·46	29th	9	7	4	3	0	0	4	18	1	14	0	25	4	16	4	0	2	1	28	21	17	Worksop.
0·59	—	8	—	7·8	7·4	7·2	2·94	−2·19	0·74	4th	21	**14**	6	**4**	1	1	2	17	0	10	0	10	1	6	9	5	2	0	14	29	27	Buxton.
0·96	—	13	—	7·0	—	6·4	0·87	−1·23	0·35	29th	10	5	3	3	0	0	5	13	**7**	9	2	20	13	9	2	0	1	6	27	24	11	Belvoir C.
0·70	—	9	—	7·4	—	—	1·15	−0·94	0·49	4th	12	6	4	1	0	0	5	19	0	17	0	15	15	6	9	3	0	0	36	15	9	Coventry.
1·15	—	15	—	6·9	7·0	—	0·56	—	0·17	26th	13	5	5	3	0	0	3	14	1	17	2	39	3	12	5	4	2	2	18	34	13	Thrapston.
0·48	—	6	—	7·5	7·9	6·8	0·76	−1·33	0·27	4th	13	*4*	3	—	0	0	2	17	0	12	4	39	0	11	9	6	0	2	29	26	10	Nottingham.
0·59	—	8	—	7·6	—	7·5	1·20	−1·04	0·51	4th	10	8	3	0	0	0	3	19	0	12	1	17	10	8	8	7	0	0	19	24	17	Birmingh'm.
1·64	+0·32	22	+ 5	—	—	—	0·95	−1·08	0·21	6th	17	6	3	**4**	2	0	0	0	2	16	2	28	6	12	8	3	2	6	26	21	9	Oxford.
				7·2			0·95	−1·17																						
1·41	—	18	—	7·3	—	8·5	2·01	−0·91	0·62	6th	14	8	*2*	—	0	0	1	**21**	0	—	2	18	5	4	6	18	3	3	12	28	14	Bath.
—	—	—	—	7·3	—	6·5	1·24	—	0·47	4th	12	6	*2*	1	0	0	2	12	0	6	1	11	15	9	3	0	4	5	21	12	24	Shrewsbury.
—	—	—	—	7·8	—	7·9	1·56	—	0·38	6th	13	6	3	**4**	0	0	1	18	1	11	1	11	48	2	1	0	0	0	18	16	8	Wistanstow.
—	—	—	—	6·8	—	7·2	0·98	—	0·33	6th	8	5	3	1	0	0	1	12	4	11	0	12	22	10	2	5	5	9	17	20	3	Bromyard.
1·03	—	14	—	3·8	—	4·4	1·03	−1·32	0·41	6th	9	*4*	4	1	0	0	**7**	1	0	17	2	26	6	1	8	1	4	8	51	5	9	Cheltenham.
1·60	—	21	—	6·2	—	7·1	1·12	−1·04	0·33	23rd	13	9	2	**4**	0	0	2	13	1	—	0	8	44	6	3	3	0	0	15	19	3	Reading.
—	—	—	—	7·6	—	6·0	2·52	−0·81	0·92	23rd	20	7	1	0	0	0	2	13	1	17	0	20	0	19	6	2	2	3	20	22	19	Salisbury.
1·70	—	22	—	6·4	7·8	—	1·87	—	0·72	23rd	17	7	2	1	0	0	5	**18**	0	13	0	6	16	0	15	4	0	2	8	27	21	Grayshott.
1·42	—	18	—	6·5	7·1	—	1·90	—	0·82	23rd	11	7	1	0	0	0	7	16	1	—	2	23	0	2	21	9	1	0	18	15	27	Midhurst.
1·75	+0·17	22	+ 2	—	—	—	1·72	−0·89	0·85	23rd	10	*5*	—	—	—	—	—	—	—	8	0	42	—	—	—	—	—	—	—	—	—	Brighton.
1·61	—	21	—	6·4	—	—	2·22	−0·33	0·88	23rd	10	8	1	0	0	0	**9**	16	**3**	10	0	39	3	15	18	6	0	0	3	18	30	Portsmouth.
1·82	+0·11	23	+ 1	7·1	—	5·7	1·99	−1·19	0·78	23rd	16	6	1	0	0	0	5	15	0	—	1	2	0	19	20	3	6	0	9	15	21	Eastbourne.
2·00	—	26	—	6·8	—	6·2	1·88	—	0·40	29th	15	8	**3**	—	2	2	1	13	0	6	**5**	59	2	7	14	4	0	2	22	27	15	Dover.
—	—	—	—	7·0	7·3	6·5	1·75	−0·49	0·70	23rd	11	8	3	—	0	0	0	*11*	0	—	4	46	0	8	15	6	0	3	20	23	18	Dungeness.
1·95	+0·14	25	+ 2	6·7	—	5·2	1·61	−1·24	0·67	23rd	14	6	1	1	0	0	5	12	0	11	3	26	6	15	11	6	3	0	13	24	15	Hastings.
1·60	+0·08	21	+ 2	5·8	—	5·5	1·91	−1·14	0·77	23rd	12	8	1	0	0	0	7	12	**3**	12	0	11	0	0	31	0	0	0	27	2	33	S'mpton.
1·95	+0·40	25	+ 5	6·3	7·0	—	2·14	−0·71	0·80	23rd	15	**10**	1	0	0	0	7	16	0	—	0	23	3	15	10	8	2	4	12	30	9	Ventnor.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of Max A.	Mean of Min. B.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
LONDON.		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
p Tottenham... ¶§	9, –, 9	55	0·050	—	0·103	46·5	38·8	42·7	+3·1	57	4th	29	31st	—	49·5	41·6	—	42·3	1·6	—	1·9	·238	—	·235	87	—	85
p Hampstead ...	9, –, 9	453	9·622	—	0·118	44·7	36·0	40·4	—	52	9, 12	22	31st	—	—	39·5	—	40·2	1·4	—	1·6	·214	—	·216	89	—	88
a Camden Square ...	9, –, 9	123	9·990	—	0·118	46·2	37·4	41·8	+2·3	55	9, 12	27	25th	42·9	48·1	41·3	—	42·0	1·6	—	2·0	·227	—	·225	87	—	84
a Westminster ...	9, 3, –	—	—	—	—	46·6	38·6	42·6	+2·9	57	9th	29	25th	—	—	42·1	44·4	—	1·1	1·9	—	·244	·251	—	91	86	—
a South Kensington*	9, 3, 6	70	0·037	—	0·110	47·0	39·8	43·4	—	55	9, 12	31	29, 30, 31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·931	—	0·110	45·9	37·7	41·8	+1·8	55	9th	28	31st	—	47·8	41·3	44·0	41·7	1·9	3·1	2·2	·221	·222	·219	85	76	84
			9·930	+·128	0·108			41·9	+2·0																		
Kew ... ¶§	9, 3, 9	34	0·078	+·142	0·114	45·9	38·2	42·1	+2·8	54	9th	29	31st	42·9	48·2	41·3	44·4	42·2	2·1	3·1	2·3	·224	·233	·225	83	78	82
			0·077	+·141	0·115			42·3	+2·7																		
6. SCOTLAND, W.																											
Eskdale	9, 3, 9	778	9·132	—	9·998	40·9	31·9	36·4	—	51	8, 9	13	31st	—	—	36·3	38·2	36·5	1·3	1·7	1·4	·193	·200	·195	87	84	86
p Poltalloch ... § ¶	9, –, 9	135	9·838	—	9·985	45·8	36·6	41·2	+1·7	58	10, 11	20	30th	—	—	41·8	—	41·1	1·2	—	1·6	·240	—	·224	91	—	87
a Glasgow	7, 1, 9	355	9·582	—	9·967	43·3	35·6	39·5	+0·7	54	8th	22	31st	—	—	39·3	40·8	39·6	1·4	2·2	1·7	·213	·210	·210	89	83	86
p Rothesay ... § ¶	9, –, 9	76	9·903	—	9·983	45·4	37·2	41·3	+1·3	56	8, 9	25	31st	42·5	46·1	41·9	—	41·6	2·0	—	1·9	·226	—	·224	86	—	86
a Colmonell ... § ¶	9, 3, –	150	9·856	—	0·028	45·9	37·8	41·9	+1·7	56	8th	20	31st	—	—	41·3	43·3	—	1·1	1·8	—	·236	·242	—	92	86	—
p Dumfries ... § ¶	9, –, 9	155	9·863	—	0·033	44·2	35·5	39·9	+1·4	55	9th	20	31st	41·1	45·4	39·3	—	39·5	1·7	—	1·6	·207	—	·211	87	—	87
p Cally ... § ¶	9, –, 9	120	—	—	—	44·3	35·8	40·1	+1·4	52	8th	18	31st	—	—	39·8	—	39·5	1·3	—	1·3	·219	—	·216	90	—	90
p Douglas ... ¶§	9, –, 9	284	9·746	—	0·055	45·9	38·8	42·4	+0·6	52	2, 8, 9	30	31st	—	—	41·8	—	42·0	1·5	—	1·3	·237	—	·244	88	—	89
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	0·017	—	0·062	45·7	39·5	42·6	+3·3	53	3, 8	22	31st	41·7	45·7	42·1	43·7	42·5	2·2	2·6	2·1	·229	·235	·233	84	81	84
p Manchester (City)	9, –, 9	195	9·857	—	0·066	45·6	39·2	42·4	—	53	9th	27	31st	42·6	48·7	41·7	—	42·5	2·1	—	2·2	·225	—	·229	83	—	83
p „(WhitworthPk.)¶	9, –, 9	127	9·921	—	0·055	45·7	38·9	42·3	—	55	9th	25	31st	—	—	41·7	—	42·2	1·4	—	1·3	·235	—	·241	89	—	90
p Darwen	9, –, 9	730	9·265	—	0·069	43·1	35·9	39·5	—	52	9th	23	31st	41·2	45·5	39·3	—	39·6	1·1	—	1·0	·224	—	·228	91	—	92
p Egremont	9, –, 9	354	9·657	—	0·043	44·4	37·5	41·0	—	51	9th	24	31st	42·4	46·3	40·5	—	40·9	1·6	—	1·6	·226	—	·227	87	—	86
p Aspatria ... ¶§	9, –, 9	254	9·741	—	0·016	44·1	35·4	39·8	+1·8	52	9th	20	31st	43·0	47·1	39·6	—	39·7	1·1	—	0·9	·227	—	·233	90	—	92
p Newton Rigg ¶§	9, –, 9	559	9·391	—	0·006	42·9	34·6	38·8	+1·9	55	9th	16	31st	42·1	45·2	38·1	—	38·6	1·1	—	1·1	·207	—	·213	90	—	92
p Stonyhurst ¶§	–, –, 9	363	—	—	—	44·5	37·5	41·0	+2·7	52	9th	21	31st	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·986	—	0·062	46·1	39·7	42·9	+3·4	53	3rd	23	31st	44·9	48·6	42·6	—	42·8	1·5	—	1·3	·246	—	·251	88	—	89
p Liverpool (Bid.) ¶	9, –, 9	202	9·849	—	0·065	46·2	39·8	43·0	+2·8	55	9th	29	31st	—	—	42·3	—	42·7	2·0	—	2·0	·228	—	·232	85	—	85
p Llandudno... ¶§	9, –, 9	32	0·005	—	0·033	47·0	40·4	43·7	+1·4	55	3rd	27	31st	—	—	44·5	—	43·8	1·9	—	2·0	·251	—	·243	86	—	84
a Holyhead ... ¶	7, 1, 9	48	0·077	+·214	0·099	47·9	42·5	45·2	+2·1	53	2, 8, 12	31	31st	—	—	45·1	46·2	45·0	1·6	1·9	1·6	·263	·270	·262	88	87	88
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	0·083	—	0·109	47·2	39·6	43·4	—	53	9th	23	31st	45·8	48·8	43·7	—	43·3	1·3	—	0·4	·256	—	·272	89	—	97
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·483	—	0·129	44·6	35·9	40·3	+0·2	52	8, 9	11	31st	43·2	48·3	39·5	—	—	0·6	—	—	·230	—	—	95	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·964	+·214	0·132	49·1	43·2	46·2	+2·0	55	11th	30	31st	—	—	45·1	46·2	45·4	1·1	1·7	1·4	·274	·274	·271	91	89	90
a Portland Bill ¶	7, 1, 9	23	0·103	+·161	0·140	48·3	42·2	45·3	+1·9	56	2nd	31	31st	—	—	44·5	47·0	45·1	2·0	2·5	2·2	·249	·264	·250	85	83	83
p Plymouth ... ¶§	9, 3, 9	116	0·035	—	0·163	48·5	41·4	45·0	+1·8	56	1st	29	31st	45·7	—	44·6	46·4	44·9	1·2	1·7	1·5	·267	·275	·263	91	88	89
a Falmouth ... ¶§	7, 1, 6	183	9·987	+·240	0·188	48·5	40·5	44·5	−0·2	56	1st	28	31st	47·0	51·0	44·4	47·1	45·1	1·8	3·0	2·5	·260	·261	·253	86	79	82
p Cardiff ... ¶	9, –, 9	216	9·900	—	0·132	45·9	38·1	42·0	+1·2	52	1, 8, 12	27	31st	43·9	48·5	41·6	—	41·8	1·7	—	1·8	·228	—	·227	87	—	86
a Newquay ... §	7, –, 6	161	0·019	+·213	0·163	48·2	42·5	45·4	+0·3	54	1st	28	31st	47·2	—	45·6	—	45·7	2·4	—	2·2	·252	—	·258	82	—	85
p Woolacombe ...	9, –, 9	120	0·044	—	0·169	48·6	43·0	45·8	+1·3	54	1, 3, 8	30	31st	—	—	46·0	—	46·1	2·2	—	2·3	·268	—	·265	84	—	83
a Princetown ...	9, 3, –	1360	8·628	—	—	42·4	36·0	39·2	—	50	6, 8	23	31st	—	—	38·9	39·8	—	0·4	0·4	—	·229	·237	—	97	97	—
p Sheepstor	9, 3, 9	730	9·360	—	0·169	45·0	36·3	40·7	—	52	1st	18	31st	—	—	40·7	43·5	40·7	0·9	1·9	1·1	·240	·246	·236	91	85	90
p Teignmouth ...	9, 3, 9	20	0·143	—	0·164	48·7	41·3	45·0	—	57	1st	30	31st	—	—	44·1	47·0	44·8	2·2	3·2	2·7	·247	·257	·244	83	78	80
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·721	+·200	9·978	46·9	40·1	43·5	+1·6	55	8th	30	29th	—	—	43·7	44·9	43·4	1·4	1·4	1·2	·254	·266	·255	88	90	91
West. *a* Blacksod Point ¶	7, 1, 9	41	0·030	+·246	0·075	48·3	41·2	44·8	+1·5	53	8, 14, 15	31	31st	—	—	45·7	46·7	45·5	2·2	2·2	2·0	·258	·268	·259	85	85	86
West. *p* Markree Castle ¶§	9, –, 9	127	9·950	—	0·087	46·8	36·5	41·7	+2·1	55	8th	17	31st	44·6	48·5	40·6	—	40·9	1·3	—	1·4	·225	—	·227	89	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	9·987	+·183	0·032	45·8	38·8	42·3	+0·8	56	8th	32	31st	—	—	41·8	43·9	42·2	1·8	2·4	1·9	·227	·236	·229	86	82	86
East. *p* Armagh ... ¶§	9, –, 9	202	9·841	—	0·060	45·1	36·1	40·6	+1·5	54	8th	17	31st	43·3	47·4	39·5	—	39·7	1·2	—	1·3	·223	—	·224	89	—	88
East. *a* Belfast	9, –, 9	55	—	—	—	45·7	36·7	41·2	—	55	8th	21	31st	—	—	41·2	—	41·3	1·6	—	1·7	·229	—	·230	87	—	86
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	45·5	35·7	40·6	—	55	8, 9	17	31st	42·9	48·1	40·1	—	40·3	1·0	—	1·1	·227	—	·227	92	—	92
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	0·083	—	0·094	47·5	38·7	43·1	—	57	8th	25	31st	44·5	47·9	42·5	—	42·7	2·1	—	2·1	·232	—	·236	83	—	83
East. *p* „ (Phœnix Pk.)§	9, –, 9	159	9·934	—	0·104	46·3	36·1	41·2	+1·0	56	8th	19	31st	—	—	40·5	—	40·4	1·1	—	1·2	·235	—	·234	90	—	90
East. *p* „ (City)... ¶	9, –, 9	53	0·043	—	0·097	46·1	38·5	42·3	+0·3	57	8th	26	31st	—	—	41·3	—	41·7	1·7	—	1·8	·229	—	·232	85	—	85
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·921	+·227	0·118	45·9	37·2	41·6	+1·6	57	8th	18	31st	45·7	48·4	40·3	44·3	41·7	1·2	1·9	1·2	·225	·249	·239	91	85	91
West. Valencia ... ¶§	9, 3, 9	45	0·127	+·279	0·177	48·4	41·3	44·9	−0·5	54	8th	27	31st	—	—	44·5	46·6	45·4	1·7	2·1	2·2	·263	·276	·261	87	85	84
			0·125	+·277	0·175			45·4	−0·1																		
West. *a* Roche's Point ¶	7, 1, 6	42	0·121	+·259	0·172	47·8	41·7	44·8	+0·5	53	2, 6, 9	29	31st	—	—	44·3	47·2	45·3	0·6	1·8	0·9	·277	·282	·282	96	88	93
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	0·079	—	0·135	47·6	37·2	42·4	—	58	8th	18	31st	45·3	—	41·8	44·7	41·0	1·0	1·2	0·6	·245	·269	·244	92	91	95
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	0·016	+·241	0·186	50·3	43·3	46·8	−0·4	55	9th	33	31st	—	—	47·0	48·2	46·9	1·6	2·1	1·4	·284	·285	·288	89	86	91
a Jersey ... ¶§	7, 1, 9	36	0·150	+·189	0·191	49·8	42·5	46·2	+2·0	56	1, 9	30	22nd	—	—	45·8	47·5	46·4	2·4	2·8	2·3	·255	·263	·262	83	81	84
p Guernsey (Brooklyn).	9, –, 9	311	9·835	—	0·170	50·0	43·2	46·6	+1·8	56	26th	33	29th	47·1	51·2	45·8	—	46·1	2·3	—	2·3	·265	—	·263	83	—	83
a Gibraltar ...	7, 1, 9	53	0·149	—	0·207	60·5	51·6	56·1	—	65	8th	42	31st	—	—	53·9	59·6	55·1	3·0	5·5	3·1	·339	·356	·354	81	69	80

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the Month of DECEMBER, 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of											WIND. No. of Observations reduced to a total of 93 for the month.									STATIONS.
				Mean Amount.					Most in a day.													Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Day.	Precipitation.	Precipitation 0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																						
1·16	—	15	—	8·1	—	7·9	0·74	—	0·22	23, 26	6	6	1	0	0	0	2	19	0	8	0	6	3	15	10	0	2	2	22	21	18	Tottenham.
1·34	—	17	—	8·2	—	7·3	0·83	—	0·26	23rd	10	7	2	0	0	0	0	18	0	24	0	11	19	2	12	1	0	0	24	21	14	Hampstead.
1·02	—	13	—	7·2	—	—	0·79	−1·26	0·27	23rd	8	8	1	0	0	0	7	20	2	11	—	—	12	15	9	3	0	3	15	27	9	Camden Sq.
0·59	+0·17	8	+ 3	—	—	—	0·84	−1·14	0·34	23rd	10	8	0	—	2	0	—	—	4	10	—	—	—	—	—	—	—	—	—	—	—	Westminster
0·79	—	10	—	7·2	—	7·4	0·87	—	0·31	23rd	8	7	1	—	0	0	4	19	0	19	0	15	13	11	8	3	2	2	32	17	5	S.Kensingtn
0·90	−0·18	11	− 3	7·3	8·1	7·3	0·88	−0·95	0·32	23rd	9	7	2	0	0	0	1	17	8	16	0	19	6	9	10	7	2	2	11	33	13	Greenwich.
1·30	+0·14	17	+ 2	7·7	7·1	6·7	0·92	−1·00	0·35	23rd	13	5	2	0	0	0	1	16	2	15	0	19	14	12	9	3	0	4	29	16	6	Kew.
1·20	—	17	—	8·1	7·5	6·4	5·55	—	1·68	3rd	20	16	5	5	0	0	2	16	1	—	6	52	21	8	0	0	0	8	27	23	6	Eskdale.
—	—	—	—	8·5	—	7·9	6·96	+1·44	1·02	3rd	24	20	3	1	2	1	2	22	0	—	0	35	9	23	4	2	0	3	6	36	10	Poltalloch.
0·90	+0·42	13	+ 6	7·5	7·9	6·8	3·70	−0·29	1·11	3rd	21	15	4	—	3	0	1	18	4	14	5	33	8	5	2	3	0	4	30	35	6	Glasgow.
0·94	—	14	—	7·6	—	7·0	5·08	+0·19	0·83	27th	21	20	4	7	1	1	4	19	3	10	2	33	14	4	0	6	0	3	3	47	16	Rothesay.
—	—	—	—	7·5	—	—	4·71	−0·19	0·90	3rd	21	17	3	2	1	0	5	18	0	3	1	27	0	12	6	12	0	3	3	33	24	Colmonell.
1·16	—	17	—	6·4	—	5·7	1·77	−2·37	0·63	26th	16	9	3	0	0	0	4	11	0	13	2	18	0	7	6	0	2	0	22	29	27	Dumfries.
—	—	—	—	—	—	—	3·76	−1·49	0·70	2nd	19	16	4	3	0	0	—	—	0	—	0	9	0	3	20	3	25	0	9	3	30	Cally.
1·73	+0·41	24	+ 6	7·5	—	7·1	3·39	−1·20	0·75	26th	15	12	2	1	5	1	2	14	2	6	3	29	3	10	12	4	1	0	11	41	11	Douglas.
1·39	+0·45	19	+ 6	7·4	7·8	7·1	1·86	−1·12	0·41	4th	17	11	1	0	3	0	2	15	0	9	8	60	2	11	5	4	5	3	16	31	16	Southport.
0·11	—	2	—	6·6	—	5·8	2·34	−0·84	0·51	26th	17	11	6	0	3	0	0	5	1	9	0	15	0	12	3	2	4	9	17	24	22	Manchester.
0·16	—	2	—	8·5	9·1	7·7	2·52	—	0·54	3rd	15	13	4	0	0	0	1	21	3	—	1	31	13	9	5	5	2	12	22	18	7	Whitwth Pk.
0·61	—	8	—	9·3	—	8·5	4·19	—	0·68	4th	21	15	7	2	5	2	0	22	0	8	1	39	3	3	4	0	3	12	11	37	20	Darwen
1·13	—	16	—	7·2	—	7·8	3·78	—	1·00	26th	16	15	0	0	2	0	4	18	1	11	2	17	9	22	0	0	6	8	11	9	28	Egremont.
0·83	—	12	—	7·7	—	6·2	3·50	−0·31	0·95	26th	14	11	5	7	1	0	4	15	0	9	1	24	22	7	6	5	0	3	17	28	5	Aspatria.
0·66	−0·40	9	− 6	7·6	—	6·2	3·71	−0·01	1·20	3rd	16	11	4	10	2	0	4	15	1	16	2	26	10	8	0	5	7	11	24	25	3	N'wt'n Rigg.
0·89	+0·05	12	+ 1	—	—	—	4·22	−0·21	0·94	4th	16	13	3	—	2	—	—	—	—	14	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
1·41	+0·54	19	+ 7	8·5	—	7·8	1·94	−1·06	0·43	26th	17	14	0	0	3	2	0	16	0	6	2	54	0	12	7	5	5	4	18	30	12	Blackpool.
1·14	—	15	—	7·3	—	7·4	1·91	−0·55	0·59	3rd	15	9	2	0	6	0	1	15	3	—	2	45	1	9	5	5	4	5	19	36	9	Liverpool.
0·96	−0·23	13	− 3	8·6	—	9·4	2·22	−0·65	0·48	26th	15	9	1	0	3	0	1	24	0	—	0	21	0	4	2	18	0	3	15	48	3	Llandudno.
1·08	—	15	—	7·8	7·8	8·0	1·56	−2·24	0·37	3rd	11	9	0	—	2	0	0	17	4	—	7	34	2	10	3	10	2	4	23	28	11	Holyhead.
—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
1·06	—	14	—	8·1	—	6·5	2·38	—	0·65	3rd	16	16	0	0	3	1	2	16	0	9	2	11	40	12	0	0	0	12	13	11	5	Dwyran.
0·76	—	10	—	8·1	—	—	3·61	—	1·02	26th	19	14	2	—	0	1	1	22	5	9	0	27	33	6	3	6	0	0	12	24	9	Llangamch.
1·40	+0·05	18	0	6·5	5·9	6·2	2·63	−1·40	0·34	5th	20	14	1	—	2	1	2	4	2	—	6	46	0	7	19	4	2	3	17	23	18	Pembroke.
—	—	—	—	6·1	6·2	5·7	2·16	—	0·65	23rd	12	8	0	—	0	0	2	6	0	—	4	59	0	11	19	4	0	1	12	26	20	Portl'nd Bill
1·78	+0·17	22	+ 2	8·0	7·6	7·0	2·66	−1·49	0·90	23rd	16	9	0	0	3	0	4	22	1	5	0	17	7	20	15	3	1	0	8	19	20	Plymouth.
1·57	−0·20	20	− 3	6·8	7·5	6·9	5·52	−0·24	1·12	22nd	19	15	0	0	4	0	2	12	1	4	0	24	8	15	14	3	1	1	12	19	20	Falmouth.
1·93	—	25	—	—	—	—	2·08	−2·46	0·50	6th	16	15	1	1	1	0	—	—	0	10	0	24	5	2	30	1	0	0	9	21	25	Cardiff.
1·54	−0·04	20	0	7·5	—	7·4	3·94	−0·26	0·91	23rd	18	15	0	—	4	1	4	17	4	—	4	41	0	9	9	8	6	0	18	21	22	Newquay.
1·67	+0·02	22	+ 1	7·0	—	6·7	2·81	−0·64	0·52	23rd	17	14	0	0	3	0	2	14	0	—	0	24	12	3	16	2	2	1	21	18	18	Woolac'mbe.
—	—	—	—	7·8	8·4	—	8·03	—	0·96	26, 28	21	19	4	3	3	0	3	21	13	—	0	48	0	6	16	2	3	0	18	9	39	Princetown.
—	—	—	—	6·6	7·3	7·1	4·58	—	0·74	23rd	20	17	4	5	4	1	4	18	11	—	6?	32	5	6	11	14	2	2	15	12	26	Sheepstor.
1·75	—	22	—	6·2	6·9	7·0	2·11	—	0·91	23rd	8	8	1	3	0	0	1	10	0	6	1	24	1	13	12	10	0	1	9	24	23	Teignmouth
—	—	—	—	7·9	7·8	8·3	4·39	+1·18	0·72	3rd	25	18	1	—	4	0	0	17	0	—	15	50	0	12	2	1	2	6	29	28	13	Malin Head.
—	—	—	—	7·9	7·8	8·1	5·14	−0·67	1·19	3rd	25	21	0	—	7	0	0	13	1	—	1	44	4	5	0	0	2	7	22	30	23	Blacksod Pt.
0·88	−0·22	12	− 3	7·8	—	7·7	5·18	+0·88	0·77	3rd	21	20	4	0	8	1	3	19	0	8	2	6	43	2	0	0	7	8	14	3	16	Markree Cas.
—	—	—	—	7·2	6·9	7·4	2·26	−0·70	0·55	3rd	17	13	3	—	1	1	0	12	0	—	0	27	0	7	1	1	3	7	23	36	15	Donaghadee.
1·08	−0·15	15	− 2	8·1	—	7·6	2·88	+0·08	0·74	26th	16	13	5	4	0	0	3	18	0	10	0	10	27	2	0	1	1	7	37	13	5	Armagh.
—	—	—	—	—	—	—	3·51	+0·36	0·60	3rd	18	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	6·3	—	6·6	3·99	—	1·31	3rd	16	13	4	3	1	0	5	15	0	—	1	15	14	10	1	1	4	12	14	14	23	Newtown-forbes.
0·58	—	8	—	7·3	—	6·2	1·78	—	0·52	3rd	11	7	1	0	0	0	4	14	6	8	0	6	25	0	0	2	0	0	12	40	14	Dublin T. C.
1·16	−0·52	16	− 7	7·5	—	5·8	1·92	−0·43	0·38	3rd	12	9	2	1	0	0	3	13	0	9	0	13	26	0	0	1	1	0	15	41	9	Phœnix Pk.
—	—	—	—	6·3	—	5·7	1·86	−0·39	0·55	3rd	12	7	3	4	3	0	5	11	2	4	3	21	3	3	3	5	6	0	16	48	9	Dublin (City).
1·12	−0·30	15	− 4	7·9	7·2	7·9	2·53	−0·54	0·65	3rd	15	11	1	—	1	0	1	13	1	13	0	7	2	13	0	2	0	8	25	27	16	Birr Castle.
1·13	−0·19	15	− 2	7·5	7·7	7·2	3·11	−3·10	0·66	5th	23	16	0	0	4	2	1	14	0	—	0	43	9	9	6	14	3	13	11	17	11	Valencia.
—	—	—	—	6·8	7·0	6·4	1·59	−3·73	0·40	3rd	24	11	0	—	0	0	3	15	1	—	1	28	1	8	15	3	3	2	17	18	26	Roche's Pt.
1·14	—	15	—	7·4	7·6	6·0	3·39	—	0·76	3rd	18	15	1	0	1	0	3	14	2	11	2	16	20	3	3	6	1	11	23	13	13	Limerick.
1·30	−0·57	16	− 7	7·0	6·9	6·8	3·87	−0·34	1·26	23rd	20	13	0	—	4	0	0	5	1	—	8	63	0	14	5	15	2	1	14	18	24	Scilly.
1·74	−0·26	22	− 3	8·2	7·4	7·1	3·49	−0·35	1·02	5th	15	10	3	—	3	0	2	17	0	—	1	38	0	4	12	9	5	3	17	28	15	Jersey.
1·53	+0·05	19	0	7·7	—	8·2	3·72	−0·74	1·15	5th	23	16	0	0	6	4	2	18	5	1	6	42	2	3	12	9	1	3	17	22	24	Guernsey.
—	—	—	—	5·0	5·5	3·6	5·83	—	2·62	23rd	5	5	0	0	0	0	10	4	0	0	0	32	5	1	0	35	5	0	4	8	35	Gibraltar.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, DECEMBER, 1913.

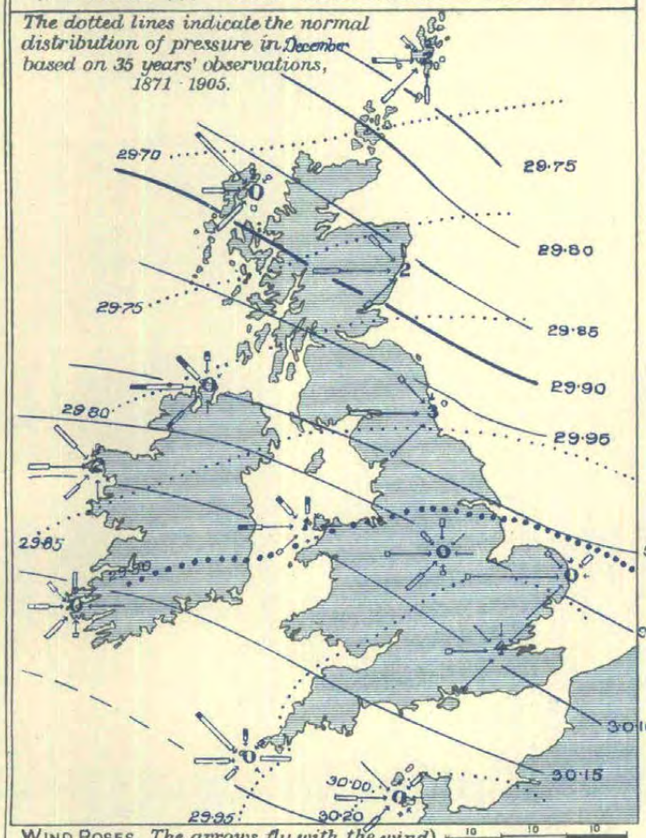
DISTRICTS AND STATIONS.		Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A	Means of B	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
		Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																										
a Baltasound ...	S	31	43·7	35·2	39·5	—	51	8, 9	23	7th	40·4	—	5·50	—	0·66	25th	31	7	7	0	1	—	0·10	—	2	—
a Fortrose		69	43·7	36·7	40·2	—	52	10th	22	6, 7	—	—	2·97	—	0·41	1st	19	3	0	0	0	—	0·69	—	11	—
1. SCOTLAND, E.																										
a Crathes	S §	140	42·8	29·4	36·1	—	56	8th	13	31st	37·5	42·3	1·63	—	0·63	3rd	12	5	1	0	0	24	1·34	—	20	—
p Stonehaven		86	44·0	32·4	38·2	—	53	8th	22	31st	—	—	1·85	—	1·05	3rd	10	2	0	0	0	—	1·89	—	29	—
p Balruddery ...	S §	276	44·8	32·5	38·7	—	53	9th	20	6, 31	—	—	1·34	—	0·96	3rd	8	1	0	0	0	—	2·12	—	32	—
a Carnoustie		39	44·2	34·2	39·2	—	55	8th	22	6th	—	—	1·58	—	1·04	3rd	14	0	0	0	2	—	1·52	—	23	—
a St. Andrews		20	44·1	34·0	39·1	—	55	9th	20	6th	39·5	44·9	1·62	—	1·26	3rd	8	1	0	0	0	14	1·95	—	29	—
2. ENGLAND, N.E.																										
a Alnwick Castle ...	¶	210	45·1	35·4	40·3	+ 2·0	55	8th	16	31st	—	—	1·38	−1·64	0·36	26, 28	13	4	0	0	0	—	—	—	—	—
a Bellingham		848	41·5	32·1	36·8	—	52	8th	15	31st	—	—	2·71	—	0·59	29th	18	4	0	0	0	—	—	—	—	—
a Tynemouth		90	44·8	36·1	40·5	—	56	8th	23	31st	41·4	45·6	1·17	—	0·45	26th	11	4	1	0	0	8	1·41	—	20	—
a Chopwellwood		445	43·7	34·5	39·1	—	55	8th	18	6th	—	—	1·08	—	0·38	26th	12	5	0	0	0	15	1·41	—	20	—
a Ushaw		599	43·2	34·8	39·0	—	52	8th	23	31st	—	—	1·00	—	0·41	29th	12	5	6	0	1	—	—	—	—	—
a Ampleforth		349	43·6	34·0	38·8	—	55	8th	20	6th	—	—	1·47	—	0·63	4th	11	5	0	0	1	—	—	—	—	—
a West Witton		605	43·1	34·9	39·0	—	52	8th	16	31st	41·1	44·7	1·97	—	0·55	26th	14	4	2	0	0	11	—	—	—	—
a Fulbeck	¶	180	44·1	35·2	39·7	+ 2·5	53	12, 13	18	31st	—	—	0·88	−0·98	0·35	29th	12	2	0	0	0	20	—	—	—	—
a Rauceby	§	124	44·7	35·0	39·9	—	54	8, 9, 12	23	31st	42·2	47·4	0·59	−1·44	0·18	26th	10	—	—	—	—	—	1·08	—	15	—
3. ENGLAND, E.																										
a Norwich		93	44·7	35·2	40·0	—	54	9th	25	7th	40·3	—	0·79	—	0·16	4th	15	4	2	0	1	16	1·20	—	16	—
a Peterborough (Eye) ...		16	44·9	35·6	40·3	—	54	12th	23	31st	—	—	0·58	—	0·14	26th	16	3	0	0	1	—	—	—	—	—
a Ridgewell		269	44·0	35·5	39·8	—	53	9, 12	26	31st	—	—	0·66	—	0·22	4th	12	2	0	0	0	—	—	—	—	—
a Ipswich (Copdock) ...		164	44·2	35·5	39·9	—	53	9th	24	31st	42·7	47·2	0·60	—	0·20	4th	13	2	1	0	0	13	1·58	—	21	—
a Felixstowe		10	45·3	37·1	41·2	+ 2·1	54	9th	28	29, 31	—	—	0·79	—	0·14	4th	15	1	0	0	4	—	1·65	—	22	—
a Walton-on-Naze		68	45·2	36·8	41·0	—	54	1, 2, 9	28	29, 31	—	—	0·88	—	0·18	4th	12	2	1	0	3	12	1·64	—	22	—
a Halstead		139	45·5	36·1	40·8	—	54	9, 12	26	31st	—	—	0·57	—	0·18	26th	9	4	0	0	0	—	—	—	—	—
a Chelmsford		134	45·4	35·2	40·3	—	54	3, 9, 12	27	22,29,31	—	—	0·63	—	0·18	26th	10	1	1	0	0	—	—	—	—	—
p Hemel Hempstead ...		535	44·0	35·2	39·6	—	52	9, 11	25	31st	—	—	0·94	—	0·18	26th	17	—	—	—	—	16	—	—	—	—
a Rothamsted ...	¶§	424	45·1	35·8	40·5	+ 2·5	54	12th	27	31st	—	—	0·71	−1·67	0·15	26th	15	0	0	0	0	—	1·37	+0·02	18	0
a Shoeburyness		13	46·2	38·1	42·2	+ 2·6	55	9th	29	30, 31	—	—	0·81	−0·83	0·33	23rd	12	1	0	0	3	—	—	—	—	—
a Southend		90	45·5	37·8	41·7	—	53	1, 9, 12	29	25,29–31	43·8	—	0·77	−0·84	0·31	23rd	9	2	0	0	0	18	1·64	—	21	—
4. MIDLAND COUNTIES.																										
a Harrogate	¶§	476	42·9	34·8	38·9	+ 1·5	54	8th	20	31st	41·9	44·6	2·21	−0·27	0·44	29th	14	6	0	0	0	11	1·14	—	16	—
a Bradford		439	44·3	36·2	40·3	—	53	8th	18	31st	40·9	46·7	2·70	—	0·83	26th	13	1	1	0	1	11	0·42	—	6	—
a Meltham		513	43·4	35·7	39·6	—	54	8th	16	31st	41·3	—	4·47	—	1·21	26th	21	6	0	0	0	11	—	—	—	—
a Cheadle	¶	646	44·3	34·8	39·6	+ 2·5	51	8, 15	22	31st	—	—	1·22	−1·69	0·50	4th	11	—	—	—	—	12	—	—	—	—
a Wellington		207	46·8	33·8	40·3	—	56	3, 11, 12	20	31st	—	—	1·08	—	0·28	6th	9	3	0	0	1	—	—	—	—	—
a Bawtry	¶	65	44·6	36·3	40·5	+ 2·7	55	8th	16	31st	—	—	0·98	−0·94	0·30	29th	8	3	0	0	0	—	—	—	—	—
a Matlock		636	43·6	35·3	39·5	—	52	8, 15	22	31st	—	—	1·25	—	0·39	4th	14	4	0	1	1	—	0·76	—	10	—
a Belper		222	44·4	35·0	39·7	—	53	8, 9, 12	19	31st	—	—	1·56	—	0·39	4th	13	5	0	0	0	—	—	—	—	—
a Belper (Quarry Bank) ...		280	44·4	36·0	40·2	—	53	8, 9	25	31st	—	—	1·13	−1·81	0·34	4th	13	4	0	0	0	—	—	—	—	—
a Mayfield (Staffs) ...		374	44·1	34·9	39·5	—	53	15th	18	31st	—	—	1·51	—	0·69	4th	12	6	2	0	0	11	0·96	—	13	—
a Strelley		377	44·2	35·4	39·8	+ 3·2	53	8, 12	23	31st	42·2	—	0·93	−1·45	0·24	26th	14	3	0	0	0	—	0·75	−0·15	10	− 2
a Kingston-on-Soar...		125	44·4	35·4	39·9	—	53	8, 12	18	31st	43·3	—	0·61	—	0·33	4th	10	1	0	0	3	—	—	—	—	—
a Sparkhill		425	44·8	35·6	40·2	—	54	12th	22	31st	—	—	1·34	—	0·44	4th	13	5	0	0	1	11	—	—	—	—
p Rugby		379	44·9	34·3	39·6	+ 2·1	53	8, 9, 12	23	31st	—	—	0·85	—	0·30	4th	13	3	0	0	1	14	—	—	—	—
a Raunds	¶	204	44·7	34·6	39·7	+ 2·0	54	9, 12	23	31st	43·4	49·3	0·48	—	0·19	26th	12	3	0	0	1	14	1·17	—	16	—
a Malvern		520	45·1	37·6	41·4	—	53	9, 12	28	31st	—	—	0·92	—	0·45	6th	8	—	—	—	—	—	1·24	—	16	—
a Ross...		214	46·2	36·1	41·2	—	55	9th	22	31st	—	—	0·88	—	0·42	6th	10	2	0	0	2	—	—	—	—	—
a Hereford	¶	291	45·8	35·6	40·7	+ 1·9	56	15th	20	31st	—	—	0·99	−1·40	0·40	6th	11	1	0	0	0	16	—	—	—	—
a Leamington Spa ...		165	45·0	35·8	40·4	—	54	12th	21	31st	42·8	52·2	1·12	—	0·46	4th	10	2	0	0	0	21	0·72	—	9	—
a Cirencester... ...	¶§	446	44·8	34·4	39·6	+ 2·0	55	9th	20	31st	43·3	47·6	1·31	−1·37	0·51	6th	12	—	—	—	—	14	1·37	+0·11	18	+ 2
a High Wycombe		249	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. ENGLAND, S.E.																										
a Malmesbury		235	44·8	34·8	39·8	—	53	9th	25	22–25	—	—	1·86	—	0·60	6th	16	1	0	0	0	15	—	—	—	—
a Wokingham		216	44·7	33·0	38·9	—	54	9, 12	23	22, 25	—	—	1·21	—	0·40	23rd	9	1	0	0	2	—	—	—	—	—
a Marlborough ...	¶§	424	44·6	34·7	39·7	+ 1·6	52	1, 8, 9	21	31st	—	48·7	1·80	−1·16	0·48	6th	12	—	—	—	—	19	1·16	+0·03	15	0
a Bucklebury		409	44·4	36·4	40·4	—	53	12th	26	31st	—	—	1·24	—	0·35	23rd	9	2	0	0	0	15	—	—	—	—
a New Malden		39	45·4	36·3	40·9	—	54	9th	26	22nd	42·9	48·2	1·04	—	0·37	23rd	9	1	0	0	0	18	0·95	—	12	—
a Croydon (Addington) ...		472	44·2	36·8	40·5	—	53	9, 12	27	29th	—	—	1·20	—	0·42	23rd	12	1	0	0	7	—	—	—	—	—
a Wallington		144	45·6	36·8	41·2	—	54	9, 12	28	19,29,31	42·5	46·6	1·18	—	0·42	23rd	13	2	0	0	5	11	—	—	—	—
a Woking		180	45·1	35·5	40·3	—	55	9th	26	29th	42·2	—	1·44	—	0·50	23rd	12	—	—	—	—	15	—	—	—	—
a Margate	¶§	35	47·0	39·1	43·1	+ 2·8	55	9th	31	30th	46·4	50·1	1·23	−0·98	0·35	23rd	9	2	2	0	0	6	1·11	−0·37	14	− 5
a Aldershot		231	44·7	35·7	40·2	—	53	8, 9, 12	23	22nd	—	—	1·66	—	0·60	23rd	14	2	0	0	3	—	—	—	—	—
a Wisley	¶§	150	45·2	36·3	40·8	+ 1·3	54	9, 12	27	19, 22	42·6	47·5	1·11	—	0·48	23rd	13	1	0	0	1	19	1·42	—	18	—
a Basingstoke		289	44·3	36·1	40·2	—	53	9, 12	25	31st	44·0	48·1	1·53	—	0·53	23rd	13	4	0	0	2	12	—	—	—	—
a Sevenoaks		509	43·9	36·6	40·3	—	52	9, 12	27	31st	41·6	47·6	1·24	—	0·52	23rd	12	3	0	0	0	15	—	—	—	—
a Tunbridge Wells ...	¶§	419	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield		320	45·1	36·5	40·8	—	54	1, 2, 12	28	29,30,31	—	—	1·50	—	0·63	23rd	11	5	1	0	0	16?	—	—	—	—
a Ramsgate		168	45·9	38·2	42·1	—	53	12th	31	25,29,31	—	—	1·26	—	0·41	23rd	9	2	2	0	0	—	1·48	—	19	—
a Folkestone		121	46·4	39·1	42·8	—	55	1st	29	29th	—	49·5	2·48	−0·29	0·62	30th	15	3	0	1	0	—	1·71	—	22	—
a Bexhill		27	47·0	39 0	43·0	—	55	1st	29	29th	46·6	—	1·55	—	0·73	23rd	14	1	0	0	0	10	2·01	—	26	—
a Worthing	§	36	47·0	38·5	42·8	+ 2·6	56	1st	28	25th	43·5	49·8	1·64	−0·78	0·82	23rd	11	0	0	0	0	9	1·78	—	23	—
a Bognor		20	47·5	38·4	43·0	—	56	1st	29	29,30,31	—	51·5	1·89	—	0·88	23rd	16	1	1	0	0	—	1·99	—	25	—
a Selsey Bill		21	47·4	39·1	43·3	—	56	1st	28	29, 31	—	—	1·93	—	0·92	23rd	9	0	0	0	1	8	1·89	—	25	—
a Totland Bay ...		140	47·4	40·6	44·0	+ 2·6	56	1st	29	31st	—	—	1·75	−0·81	0·74	23rd	10	1	0	0	2	10	1·97	—	25	—
a Sandown		20	48·6	40·3	44·5	—	60	1st	29	31st	—	—	2·55	—	0·89	23rd	10	—	—	—	—	—	1·98	—	25	—
p Bournemouth		145	46·9	38·1	42·5	—	56	1st	26	31st	43·9	47·7	2·06	—	0·73	23rd	13	—	—	—	—	—	2·04	—	26	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

MONTHLY WEATHER CHARTS, DECEMBER, 1913.

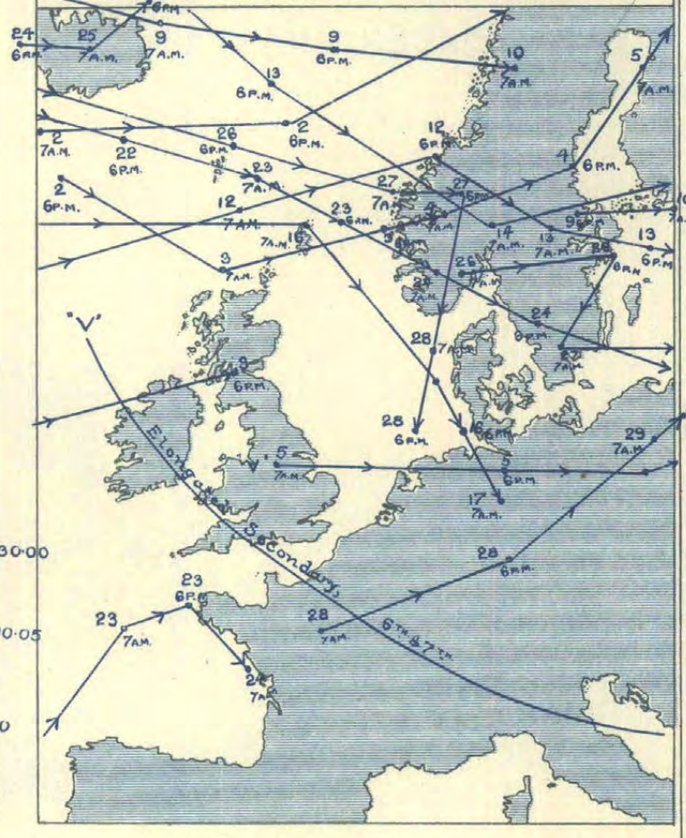
1. WIND AT 7A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in December based on 35 years' observations, 1871 - 1905.



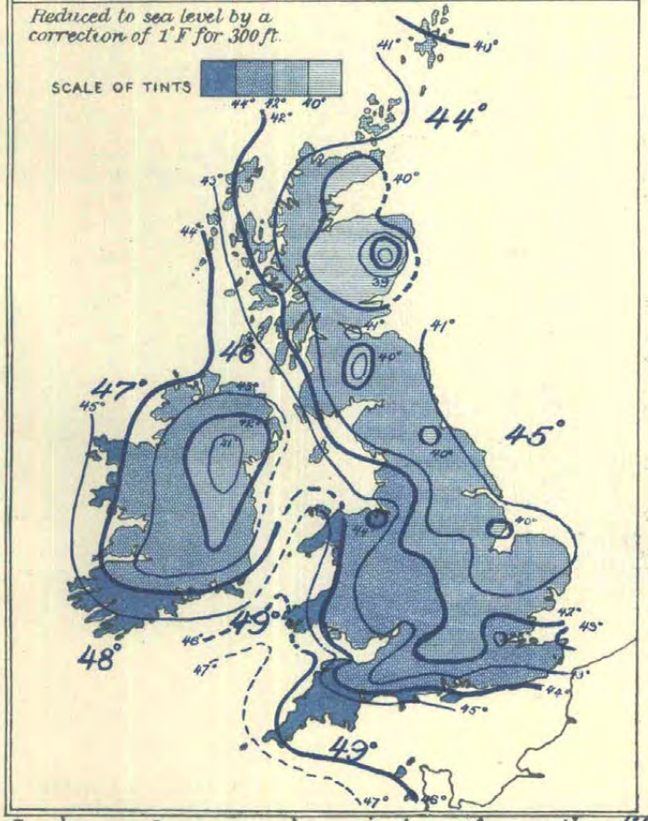
WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT 10 MODERATE 10 STRONG 10 — 30 Obsns. = 1 Inch

2. MOVEMENTS OF DEPRESSIONS.



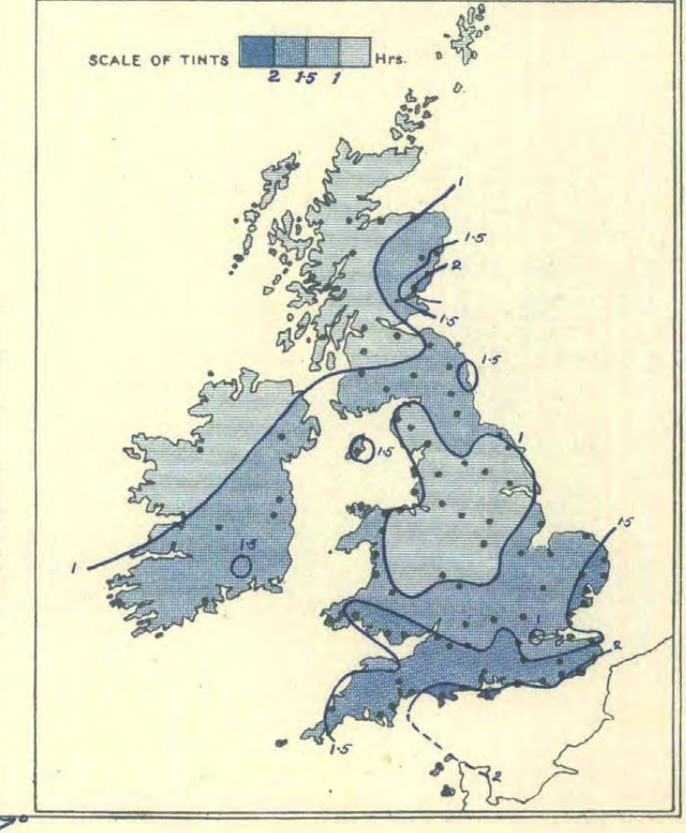
3. DISTRIBUTION OF MEAN TEMPERATURE.

Reduced to sea level by a correction of 1°F for 300 ft.

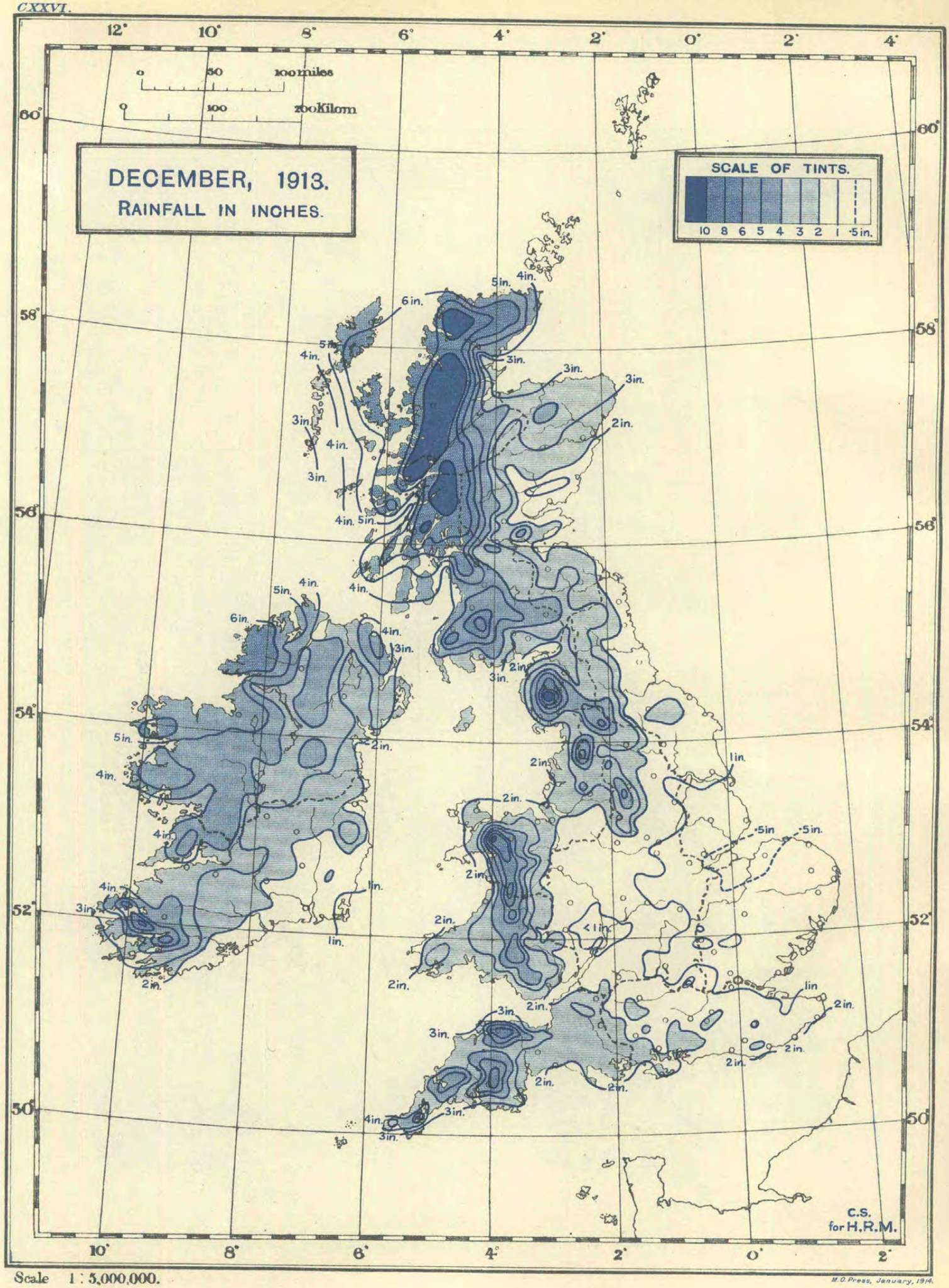


Sea temperatures are shown in large figures thus 47°

4. BRIGHT SUNSHINE. HOURS PER DAY.



M.O. Press, January, 1914.



Scale 1 : 5,000,000.

M.O. Press, January, 1914.

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, DECEMBER, 1913.

DISTRICTS AND STATIONS	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Day.	Min.	Day.	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Day.	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	45·7	36·3	41·0	—	54	3, 9, 12	28	22,25,31	—	47·3	0·79	—	0·30	26th	11	4	0	0	0	14	1·48	—	19	—
a Golder's Green	279	45·2	36·5	40·9	—	53	9, 12	27	31st	—	—	0·73	—	0·22	26th	10	1	1	0	1	—	—	—	—	—
p Hampstead (Redington Rd.)	375	44·8	36·5	40·7	—	53	9th	27	25, 31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	46·5	38·1	42·3	—	55	9th	23	31st	—	—	5·13	—	0·83	3rd	22	4	1	0	0	6	0·59	—	9	—
a Ardnadam	64	45·3	36·4	40·9	—	56	9th	23	31st	—	—	7·60	—	1·17	2nd	21	2	2	1	0	13	—	—	—	—
a Thorntonhall(Lanarkshire)	440	43·3	33·9	38·6	—	54	8th	18	31st	—	—	4·80	—	1·32	3rd	18	5	0	0	1	13	0·84	—	12	—
a Kilmarnock ¶	90	44·8	35·6	40·2	+ 1·0	55	8th	20	30, 31	—	—	4·90	—	1·28	3rd	20	1	1	3	1	—	0·71	—	10	—
p Ruthwell §	67	45·4	33·9	39·7	—	52	2, 3, 9	17	31st	—	—	2·36	—	0·81	26th	12	0	0	0	0	—	1·28	—	18	—
7. ENGLAND, N.W.																									
a Scaleby	111	44·2	34·8	39·5	—	55	8th	17	31st	—	—	2·32	—	0·66	26th	19	2	1	0	4	—	—	—	—	—
a Seathwaite	422	44·7	35·4	40·1	—	53	8th	19	31st	—	—	14·07	—	2·98	25th	21	4	4	1	0	—	—	—	—	—
a Carnforth	174	44·7	36·4	40·6	—	52	3rd	21	31st	—	—	3·01	—	0·54	26th	18	0	3	0	2	11	0·89	—	13	—
a Lancaster	311	44·7	37·6	41·2	—	52	3rd	25	31st	43·9	48·9	3·39	—	0·62	26th	19	1	4	0	0	9	1·10	—	15	—
a Hutton	81	45·3	36·2	40·8	—	54	8th	18	31st	43·5	47·3	2·47	—	0·66	3rd	18	1	2	0	0	12	1·13	—	15	—
a Burnley	459	43·5	35·7	39·6	—	53	8th	15	31st	41·4	46·2	3·02	—	0·66	3rd	16	—	—	—	—	10	0·42	—	6	—
a Leyland	124	45·3	36·1	40·7	—	54	8th	19	31st	—	—	2·58	—	0·49	3rd	18	1	6	0	3	13	0·96	—	13	—
a Bolton	341	44·5	37·4	41·0	—	53	8th	25	31st	41·6	45·7	3·08	—	0·48	4th	19	2	1	0	0	9	0·53	—	7	—
a Blundellsands	34	46·3	39·6	43·0	—	55	8th	22	31st	—	—	2·24	—	0·57	3rd	17	0	6	0	0	4	—	—	—	—
a Hoylake §	30	47·2	40·1	43·7	—	55	2nd	24	31st	—	—	2·43	—	0·67	3rd	13	0	0	0	0	?	1·13	—	15	—
a Rhyl	30	47·8	39·1	43·5	—	55	2, 8, 15	21	31st	—	—	2·38	+0·02	0·64	3rd	14	0	1	0	0	2	1·19	—	16	—
a Colwyn Bay	82	48·6	40·5	44·6	—	59	8th	24	31st	—	—	2·49	—	0·61	4th	9	0	0	0	0	—	0·95	—	13	—
a Llanberis (Pen-y-Gwryd)	913	44·6	35·5	40·1	—	54	3rd	19	31st	—	—	11·96	—	2·67	3rd	20	3	3	1	3	—	—	—	—	—
a Macclesfield	500	43·3	34·9	39·1	—	52	8th	17	31st	—	—	2·02	—	0·35	3rd	18	5	1	0	0	—	—	—	—	—
a Northwich	117	45·3	37·1	41·2	—	55	8th	20	31st	—	—	1·95	—	0·49	4th	16	2	4	0	1	—	—	—	—	—
a Hawarden Bridge ¶	22	48·3	?39·6	?44·0	+ 3·1	57	8th	?28	31st	—	—	2·11	+0·01	0·49	2nd	13	—	—	—	—	—	—	—	—	—
a Ruthin	449	44·8	37·5	41·2	—	55	8th	22	31st	—	—	2·52	—	0·65	3rd	12	3	2	1	0	—	—	—	—	—
a St. Asaph	479	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Welshpool	255	46·4	36·1	41·3	—	56	2nd	14	31st	—	—	2·09	—	0·46	4th	17	2	1	0	0	—	—	—	—	—
p Aberdovey §	22	47·3	41·4	44·4	—	53	3rd	26	31st	—	—	2·32	—	0·43	6th	19	2	2	2	2	—	1·16	—	15	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	47·0	41·4	44·2	—	54	8th	24	31st	—	—	2·08	—	0·49	6th	18	2	2	1	1	—	1·21	—	16	—
a Gwernyfed	374	44·8	34·0	39·4	—	53	8, 9, 11	13	31st	—	—	1·72	—	0·42	4th	18	1	0	1	4	—	—	—	—	—
a Haverfordwest	93	47·9	39·9	43·9	—	57	15th	25	31st	—	—	2·81	—	0·56	6th	20	0	4	0	1	—	1·86	—	24	—
a Tenby	64	48·6	37·7	43·2	—	55	9th	27	21, 31	—	—	2·59	—	0·46	6th	18	1	1	0	0	12	2·02	+0·57	26	+ 7
a Swansea	24	47·2	39·5	43·4	—	53	3, 8, 9	28	31st	45·7	51·9	2·91	—	0·52	26th	18	1	2	0	0	15	1·55	—	20	—
a Clifton ¶	229	46·2	38·5	42·4	+ 1·8	54	9th	27	31st	—	—	2·27	−0·99	0·78	6th	17	1	0	0	0	10	1·47	—	19	—
a Weston-Super-Mare	29	47·0	38·8	42·9	—	54	3rd	25	31st	—	—	2·14	—	0·54	6th	12	1	1	0	1	13	1·73	—	22	—
a Minehead	104	47·6	40·6	44·1	—	56	8th	31	23rd	—	—	3·43	—	0·68	1st	10	0	0	0	3	7	1·19	—	15	—
a Ilfracombe	24	49·4	43·7	46·6	—	55	3rd	32	31st	47·4	52·3	3·21	—	0·47	1st	19	0	2	1	0	1	1·42	—	19	—
a Bude	49	49·8	41·4	45·6	—	56	4th	26	21, 31	—	—	3·25	—	0·62	5th	19	0	4	0	0	—	1·84	—	24	—
a Arlington ¶	613	45·3	37·8	41·6	+ 1·3	52	8, 9	25	31st	—	—	5·96	−0·14	0·75	1st	18	0	0	0	0	—	—	—	—	—
a Cullompton ¶§	202	46·7	37·3	42·0	+ 2·5	55	1st	24	31st	45·2	—	2·33	−1·44	0·55	23rd	20	1	1	0	3	15	1·92	+0·69	25	+10
a Rousdon	515	45·9	37·2	41·6	+ 0·9	55	1st	24	31st	44·6	48·0	2·03	−1·48	0·62	23rd	14	1	1	0	5	13	2·00	—	26	—
a Sidmouth	147	47·4	39·0	43·2	—	57	1st	27	31st	—	—	2·88	—	0·75	5th	13	1	2	0	1	15	—	—	—	—
a Exmouth	11	48·8	39·6	44·2	—	57	1st	27	31st	—	—	1·96	—	0·55	23rd	11	—	—	—	—	—	1·99	—	26	—
a Killerton	160	48·1	33·4	40·8	—	55	1, 7, 8	23	19th	—	—	2·04	—	0·62	23rd	12	3	0	0	2	15	—	—	—	—
a Shaftesbury ¶	722	43·0	36·1	39·6	+ 1·1	51	8, 9	25	31st	42·5	48·2	2·33	−0·86	0·75	23rd	15	—	—	—	—	—	—	—	—	—
a Dorchester	314	45·2	37·7	41·5	—	54	1st	26	31st	—	—	2·24	—	0·62	6, 23	14	1	0	0	2	—	1·67	—	21	—
a Weymouth	21	47·8	40·1	44·0	—	56	1st	28	31st	—	—	1·85	—	0·56	6th	11	1	0	0	0	—	2·09	—	27	—
a Torquay	12	49·1	41·5	45·3	—	58	1st	30	31st	—	—	2·07	—	0·96	23rd	9	0	0	0	0	5	1·77	+0·06	23	+ 1
p Paignton	11	49·1	40·4	44·8	—	58	1st	28	31st	—	—	2·31	—	1·02	23rd	11	1	0	0	0	6	1·64	—	21	—
a Salcombe	39	48·3	41·1	44·7	—	55	1st	30	31st	—	—	2·97	—	1·03	23rd	16	0	0	0	0	—	1·89	—	24	—
a Tavistock	374	46·9	39·2	43·1	—	54	1st	26	31st	—	—	3·89	—	0·85	23rd	19	2	3	2	1	15	—	—	—	—
a Ashburton	583	47·5	39·3	43·4	—	57	1st	29	31st	—	—	3·57	−2·87	1·05	23rd	16	1	0	0	0	—	—	—	—	—
a Fowey	51	49·7	38·2	44·0	—	58	1st	24	31st	—	—	3·42	—	1·04	24th	17	0	2	1	0	—	2·13	—	27	—
a Redruth	397	47·0	40·8	43·9	—	54	8th	28	31st	—	—	4·23	—	1·22	5th	19	2	4	1	0	—	—	—	—	—
a Penzance	54	49·5	43·6	46·6	—	57	1st	30	31st	—	—	5·30	—	1·12	5th	21	1	3	1	4	—	1·18	—	15	—
9. IRELAND, N.																									
p Dunfanaghy	54	47·3	39·5	43·4	—	58	8th	27	31st	—	—	5·75	—	0·81	3, 26	22	2	5	1	0	—	—	—	—	—
a Lisburn	207	44·3	34·6	39·5	—	55	8th	18	31st	—	—	3·95	—	0·90	26th	14	1	0	0	0	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	46·5	36·9	41·7	+ 1·2	59	8th	21	31st	—	—	2·05	−0·24	0·56	3rd	12	3	2	0	1	17	—	—	—	—
a Kingstown	42	47·0	40·0	43·5	—	59	8th	28	31st	—	—	1·77	—	0·55	3rd	9	—	—	—	—	—	1·40	—	19	—
p Clongowes Wood Col.	245	45·7	34·5	40·1	—	54	8, 9	20	30th	—	—	1·84	—	0·58	3rd	12	1	0	0	5	—	1·31	—	18	—
a Mountmellick	239	45·2	37·2	41·2	—	53	8th	20	31st	—	—	2·16	—	0·57	26th	13	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	46·3	38·0	42·2	—	55	10th	30	31st	—	—	1·15	—	0·48	3rd	5	0	0	0	0	—	—	—	—	—
a Kilkenny ¶	195	45·9	36·7	41·3	+ 0·5	55	8th	19	31st	—	—	1·78	−1·49	0·46	4th	19	2	1	0	1	—	—	—	—	—
a Cahir ¶	199	45·6	38·1	41·9	+ 0·1	53	8th	20	31st	—	—	2·51	—	0·72	3rd	20	2	0	0	0	—	—	—	—	—
a Wexford	99	46·6	39·7	43·2	—	52	1, 6, 11	29	30, 31	—	—	0·76	—	0·37	3rd	7	0	1	0	0	—	—	—	—	—
a Waterford ¶	100	46·7	39·1	42·9	+ 1·3	53	2, 11, 14	24	31st	—	—	1·67	−2·67	0·57	3rd	10	0	0	0	1	—	—	—	—	—
p Waterford Trg. Coll.	20	46·7	38·7	42·7	—	54	6th	23	31st	—	—	1·62	—	0·60	3rd	11	1	0	0	0	—	—	—	—	—
p Carrick-on-Suir	541	45·5	37·2	41·4	—	55	8, 9	24	31st	—	—	1·74	—	0·58	3rd	13	2	0	0	3	9	1·74	—	23	—
a Foynes ¶	108	47·0	38·2	42·6	+ 0·5	57	7th	21	31st	—	—	3·97	−0·47	1·03	3rd	22	—	—	—	—	—	—	—	—	—
a Killarney ¶	174	47·8	39·6	43·7	+ 0·3	57	2nd	23	31st	—	—	4·62	−2·53	1·45	3rd	18	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	47·2	40·0	43·6	—	53	2, 8, 11	23	31st	—	—	1·60	—	0·68	3rd	15	1	1	0	2	—	1·20	—	16	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	48·9	42·8	45·9	+ 1·1	54	5, 6, 9	34	29th	—	—	3·32	−1·14	1·05	5th	20	0	4	0	0	—	1·42	0·00	18	0

DISTRICT VALUES—DECEMBER, 1913.

Districts.	Air Temperature.						Earth Temperature.				Rainfall.			Sunshine.				Cloud. Mean Amount (0–10).			Pressure at M.S.L.			
	Highest.	Lowest.	Means of Daily Max.	Means of Daily Min.	Means of Daily Mean.	Difference from Average.	At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Total.	Difference from Average.	No. of Days.	Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Highest.	Date.	Lowest.	Date.
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	57	9	44·2	35·3	40·0	+1·0	40·2	0·0	—	—	6·72	+0·86	23	0·46	−0·17	7	− 3	7·8	7·6	7·0	30·61	19th	28·79	4th
Eastern.																								
1. SCOTLAND, EAST ...	59	4	43·7	33·4	38·8	+1·1	38·6	+0·3	43·5	+0·2	2·53	−0·40	15	1·31	+0·31	20	+ 5	6·8	6·1	6·0	30·65	19th	28·71	3rd
2. ENGLAND, N.E. ...	56	9	44·8	35·9	40·6	+1·5	41·1	+1·2	45·9	+2·2	1·13	−1·09	11	1·11	−0·11	15	− 2	7·3	—	6·7	30·67	20th	28·72	3rd
3. ENGLAND, EAST ...	57	21	45·4	36·4	41·1	+2·4	42·4	+0·9	47·7	+1·8	0·67	−1·27	13	1·38	−0·01	18	0	7·5	7·2	6·9	30·67	21st	29·26	3rd
4. MIDLAND COUNTIES	58	10	45·1	35·8	40·7	+2·2	42·3	+1·6	47·3	+1·8	1·21	−1·13	12	1·07	−0·10	14	− 2	7·2	7·5	7·0	30·68	20th	29·11	3rd
5. ENGLAND, S.E. ...	6c	21	46·3	37·6	42·2	+1·5	43·8	+1·1	49·0	+2·3	1·67	−0·89	13	1·50	+0·05	19	0	6·7	7·3	6·1	30·67	21st	29·38	28th
Western.																								
6. SCOTLAND, WEST ...	58	13	45·2	36·8	41·2	+0·7	41·8	—	45·8	+2·1	4·37	−0·99	19	1·32	+0·35	19	+ 5	7·6	—	6·8	30·65	19th	28·78	3rd
7. ENGLAND, N.W. ...	59	14	45·9	38·7	42·5	+2·1	42·8	+1·9	47·0	+2·7	2·63	−0·73	15	1·02	0·00	14	0	7·9	8·2	7·4	30·69	21st	29·08	3rd
8. ENGLAND, S.W. ...	58	11	46·6	39·1	43·1	+0·8	45·2	+0·7	49·7	+1·5	3·16	−0·33	17	1·46	−0·01	19	0	7·1	7·1	6·8	30·70	31st	29·17	3rd
9. IRELAND, NORTH ...	58	17	46·5	38·3	42·6	+1·5	43·6	+1·8	48·0	+2·2	3·73	−0·07	20	0·98	−0·26	14	− 3	7·6	7·4	7·7	30·68	21st	28·89	3rd
10. IRELAND, SOUTH ...	59	18	46·8	38·9	43·1	+0·2	45·2	+2·2	48·2	+2·3	2·63	−1·90	18	1·15	−0·37	15	− 5	7·2	7·4	6·5	30·71	21st	29·16	3rd
11. ENGLISH CHANNEL ...	56	30	49·7	42·9	46·4	−0·2	47·1	+0·7	51·2	+1·6	3·56	−0·31	18	1·49	−0·36	19	− 4	7·6	7·2	7·4	30·66	31st	29·33	3rd

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Broadstairs ...	1·59	—	21	—
Littlestone§ ...	1·39	—	18	—
Hove	1·79	—	23	—
Westbourne ...	1·30	—	17	—
LONDON.	hr.		%	
Bunhill Row ...	0·54	+0·31	7	+ 4
Plumstead ...	0·55	—	7	—
Richmond ...	1·18	—	15	—
8. ENGLAND, S.W.				
Port Talbot ...	1·62	—	21	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	1·58	—	0·40	23rd	12
LONDON.					
South Wimbledon ...	1·02	—	0·35	23rd	10
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	1·16	—	0·54	6th	8
Forest of Dean (900 ft.)	2·00	—	0·70	3rd	10

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. At Aberdeen, Eskdale, Kew, and Valencia these readings are for the twenty-four hours ended at midnight. Local time is used except at the First Order Observatories and Telegraphic Reporting Stations where G.M.T. is used. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the month which were persistently overcast from midnight to midnight was 1, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked S is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

Meteorological Office, South Kensington, January 24th, 1914.

FOR OFFICIAL USE.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

(Supplement to the Weekly Weather Report.)

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS IN THE UNITED KINGDOM, WITH A CHART OF RAINFALL CONTRIBUTED BY THE BRITISH RAINFALL ORGANISATION.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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THIRTY-EIGHTH YEAR. *Vol. XXX. (New Series) Weekly Weather Report.* No. XIII. SUMMARY FOR THE YEAR 1913. [*Price 6d.*

A DULL YEAR.

An open winter, a wet spring, a summer very dry but neither sunny nor warm, and a uniformly mild autumn.

The following are the outstanding features of the meteorology of the year 1913.

1. **Gales.**—A good deal of stormy and unsettled weather prevailed during the year and many gales—some of them severe and widespread—were experienced. JANUARY was a stormy month; the wind, practically always from points in the southern half of the compass, attained the force of a gale at one or other of the reporting stations on 23 days, and of a strong gale on over 18 days. The most stormy period set in on the 9th, when a strong South-Easterly gale sprang up locally in the far west and north; by the following day it spread over the country generally and became very violent under the influence of the exceptionally deep cyclone on the ocean and an anticyclone covering the greater part of Europe. To the west of Ireland the gradient was 2·2 inches in 750 miles. The situation was complicated on the 11th and 12th by the passage of a secondary depression over southern England. From the 9th to the 12th a whole gale was of daily occurrence on many portions of our coasts, Malin Head reporting a storm on the 10th and 11th, and Roche's Point registering gusts of 70 miles per hour on the 10th. Heavy rains at first accompanied the gale, changing to snow over the most of the Kingdom with the development of the secondary on the 11th. Strong gales again occurred on some coasts from the 14th to the 16th, some gusts at Roche's Point on the 14th reaching 75 miles per hour. At Lerwick a whole gale from the South-East was maintained daily from the 9th to the 16th. During the rest of the month there were several gales, some strong locally, and altogether only two days (25th and 26th) could be described as quiet. The next severe gale was from a south-westerly direction on the 7th and 8th FEBRUARY, there being then many instances of a strong gale, while Aberdeen, Donaghadee, Malin Head, Trevose Head and Outer Farne reported a whole gale, and Southport and Lundy a storm. During squalls, the wind rose to 72 miles per hour at Pendennis, 74 at Shields, 76 at Aberdeen, 79 at Dwyran, 80 at Quilty, 83 at Holyhead, and 86 at Southport. The gale was destructive, and on the 7th caused in the Shannon the highest tide known for 50 years. MARCH, again, was a somewhat boisterous month. On the 4th, 5th, and 6th, following the appearance of a deep depression off the south-west of Ireland, a strong Southerly to Westerly gale was experienced on several parts of the northern, western, and southern coasts, and a whole gale in Shetland, Donegal, and Mayo. Severe squalls accompanied, and at Dwyran a gust of 76 miles per hour was recorded on the 6th. The eastward translation of a deep system along the Arctic Circle was associated with a strong gale round the north of Scotland on the 9th and 10th. The gales of the 15th to the 18th were due to a compartively shallow disturbance which, while moving eastward beyond the north of Scotland on the 16th, threw off a secondary. Strong gales were felt on many coasts each day, and a whole gale off Pembroke. Again on the 19th and 20th several districts experienced a strong gale, and at Dungeness the wind rose to storm force. On the 22nd a secondary depression brought about a stormy night over southern England and caused numerous casualties, Worthing pier being destroyed. From the 15th to the 20th APRIL a Southerly to Westerly gale, or strong gale, was felt daily on various sections of our coasts, with wet weather and some small falls of snow. A deep and irregularly moving depression approached our western coasts on the 25th, and until the 29th gales and strong gales from North-West, South-West, or South-East were common on most parts of the western coasts, with gusts ranging up to 72 miles per hour at Pendennis, which station also registered 59 miles in an hour. Thunder and hail-storms—severe and destructive in some instances—visited various parts of Ireland and England at the same time, and there were many heavy falls of rain. The weather during MAY was of a breezy character generally, with occasional instances of gales, the most important being from the 8th to the 10th from between South and East; Malin Head reported a whole gale. This more windy period was attended by numerous thunderstorms and many heavy falls of hail and rain. Again between the 15th and 18th there were several reports of gales from North-East, North, and North-West. The second week of JUNE was rough generally, and marked by the unusually severe and widespread summer gale of the 9th and 10th. During the passage of a deep cyclonic depression along the 60th parallel a gale or strong gale from the West or North-West blew in many localities on the 9th, and a strong gale to a whole gale on the 10th. Several high gusts, including one of 64 miles per hour at Aberdeen, were registered.

The months of JULY, AUGUST and SEPTEMBER were on the whole quiet with occasional instances of gales at the more exposed stations, particularly between the 12th and 14th, and again between the 22nd and 25th of September. Though the conditions in OCTOBER were frequently very unsettled, the various disturbances produced no gales of any great severity. A tornado which appeared over the eastern valleys of Glamorgan on the evening of the 27th developed great energy and occasioned some loss of life and much destruction of property.

Numerous and deep depressions made NOVEMBER a stormy month, a gale being felt at one or more stations on as many as 27 days, and a strong gale on 18 of these. A depression, whose centre passed the Faroe on the 3rd, caused boisterous weather very generally during the first three days, a gale as far south as Pembroke and Roche's Point, and a whole gale at Holyhead, where also the anemometer recorded gusts up to 75 miles per hour. A week of comparative quietness was succeeded by the appearance off the Kerry coast of another depression which maintained a disturbed state of weather through the rest of the month, the wind attaining the force of a strong gale on 15 out of 20 days. At Holyhead a whole gale blew from North-West on the 13th, and from West on the 15th, when a gust of 79 miles per hour was recorded at Southport during a strong gale.. The most widespread gale of the month blew on the 19th and 20th while the cyclonic centre was passing eastward between Iceland and the Faroe, the gale being felt as far south as the English Channel. At Blacksod, Malin Head, Glasgow, Hexham, and Lerwick it was a strong gale, and at Southport a whole gale, the highest gust velocities being 74 miles per hour at Southport and 83 miles per hour at Hexham. Another instance of a whole gale occurred at Malin Head on the 23rd, when the depression was centred over Denmark Strait. On the 3rd DECEMBER, during the passage of a deep depression eastwards beyond the north of Scotland, a strong or whole gale blew on many parts of the coast. Some of the gusts were of great violence—as high as 82 miles per hour at Southport.

Map 2, p. cxxxi, shows the mean paths of the classified low-pressure systems which visited our neighbourhood within the year. Some irregular paths are omitted.

2. **Rainfall.**—For the country as a whole, the rainfall was slightly below the normal. In Ireland and in South-Western England there was a small excess, but in all other districts there was a deficiency; the aggregate over the East of Scotland in particular was only about 85 per cent. of the normal. The number of days of rain was also as a rule somewhat under the average. Some exceptionally small totals were registered, 16·2 in. at Cromer, 17·9 in. at Leith, 18·0 in. at Spurnhead, 18·2 in. at Fortrose and Southend, 18·7 in. at Cambridge, and 18·8 in. at Skegness and Clacton. Large records were few, 81·0 in. at Ardnadam, 87·2 at Glencarron, 87·9 at Caragh Lake, 89·9 at Princetown, and 124·5 at Seathwaite. Six stations situated on the slopes of Snowdon returned amounts of over 140 in., the highest being Copper Mill with 161·0 in. Falls of an inch or more in a day were fairly numerous in the course of the year and there were many reports of over 2·5 in.; the heaviest recorded was one of 4·62 in. at Copper Mill on the 17th JUNE. On MAY 9th many heavy falls were recorded—1·2 in. at Carnoustie, 1·6 in. at Crathes, and next day 1·6 at Dyce and 2·8 at Crathes; at Crathes this rainstorm was continuous for 36 hours, during which time 4·4 in. fell. On JUNE 9th a great rainstorm affected the mountainous districts giving 1·5 in. at Mount Callan in Ireland, 1·8 in. at Fort William, 1·9 in. at Inverary, 4·2 in. at Seathwaite, over 2 in. generally in Snowdonia, and up to 3·9 in. at Intake, 4·4 in. at Llanberis, 4·6 in. at Copper Mill. A violent thunderstorm on the night of the 14th-15th JULY gave over 3 in. at Mayfield, Sussex. On 31st AUGUST many stations in the south had over 1 in. and up to 2·5 in. at Worthing. On SEPTEMBER 16th 2·65 in. fell at Newcastle-on-Tyne; next day the Midlands had heavy downpours, up to 1·7 in. at Sheffield and 2·1 in. at Bawtry. On the 17th SEPTEMBER a remarkable rainstorm visited the neighbourhood of Doncaster. An area of about 27 square miles (including the city) received over 5 in. in 24 hours and about 1,000 square miles received over 1 in. Ireland had heavy falls on the 19th—1¾ in. round Dublin; on 22nd 1·4 in. at Valencia and on 24th 2 in. at Broadford (Clare). On the 26th the North of England had the heavy falls, up to 1·6 in. at Lancaster and 1·8 in. at Kirkby Lonsdale. A very heavy downpour over the inland districts of England on 5th

(317—19.) Wt. 196—786. 1575. 2/14. D & S. G. 17/33.

OCTOBER gave amounts up to 1¾ in. at Welshpool, Wistanstow and Little Massingham, 2·2 in. at Fulbeck, 2·6 in. at Rauceby and Rugeley, 2·8 in. at Claypole, 2·9 in. at Temple Bruer, and 3·1 in. at Boston; it was followed next day by heavy falls in the southern counties ranging up to 2 in. at Dorchester. Some of the heavy falls in short periods noted by observers were 2·12 in. at Brampton Grange in 1¼ hours and 2·80 in. at Great Panton in the same time on JUNE 17th; 4·30 in. at Hafod Fawr in 8 hours on JUNE 19th; 0·61 in. at Heathfield in 15 minutes on JULY 10th; 2·65 in. in 1½ hours at Newcastle on Tyne on SEPTEMBER 16th; 1·20 in. in 24 minutes at New Malden on OCTOBER 2nd; 0·85 in. at Norwich in 13 minutes on OCTOBER 3rd. (*See also* Rainfall Map, p. cxxxi.)

3. **Snowstorms.**—From the 10th to the 12th of JANUARY occurred the heaviest snowfall for years; accompanied as it was by a severe gale it caused considerable drifting in many localities. In several instances drifts up to 10 ft. deep were reported and railway and postal services were considerably delayed. In Western Perthshire the depth (undrifted) was estimated at over 3 ft. and many places reported depths of over 12 in. During the first 4 months of the year there were many minor and local falls of 5 in. or less. In particular a cold Southerly wind on the 11th of APRIL brought with it a remarkably widespread fall amounting in many places to from 3 to 6 in. and being in some parts of the country one of the heaviest of the year.

4. **Thunderstorms.**—In the latter half of JANUARY and the first week of FEBRUARY thunderstorms were (for the season) fairly numerous, being noted in many places and accompanied frequently by hail or snow. From the 15th to the 17th MARCH they were widely distributed and heavy rain fell in the lower levels; again on the 22nd they were general over England and severe in places. Thunderstorms with hail, sleet or snow occurred at a number of stations on the 17th of APRIL. Various parts of Ireland were visited by thunder and hailstorms on the 27th and 28th and in the evening of the following day they were common throughout England, very severe and destructive in a number of instances, and accompanied by extraordinarily vivid lightning. These storms were practically simultaneous, occurring in most localities between the hours of 7 and 11 p.m. The accompanying rainfall was fairly heavy. On the 30th of this month and the first few days of MAY and again on the 10th, thunder occurred in many parts of the Kingdom, accompanied on the latter occasion by many heavy falls of rain and hail. The unusual heat of the 25th to 30th was accompanied in nearly all parts of England by more or less severe thunderstorms, resulting in a number of casualties; there were few heavy falls of rain or hail, but from some places sharp falls in short periods were reported and an exceptional hailstorm visited Southend. During JUNE, JULY, and AUGUST thunderstorms were, for the season unusually few and slight, with the exception of that which occurred in the Eastern Counties on the 17th JUNE; in this instance several places received over an inch of rain and one or two had over 2 inches in an hour and a quarter. Comparatively slight storms, severe in places and violent at Princetown, visited the South of England on the 4th SEPTEMBER and were accompanied by very heavy rain. On 14th and 15th various districts had thunderstorms; a waterspout was observed crossing the mouth of the Towy River and Oundle was visited by an extraordinary hailstorm, the hail lying 7 to 9 in. deep and yielding 0·52 in. of water after a fall of 20 minutes. The 16th witnessed further sporadic thunder and rainstorms, Newcastle-on-Tyne receiving 2·65 in. of rain in 1½ hours. During OCTOBER thunderstorms were unusually frequent and widely distributed over England, while Scotland and Ireland were seldom affected. These visitations were numerous during the first eight days, and again from the 27th to the 29th; in many instances they were accompanied by more or less heavy hail, very violent in particular at Cullompton on the 27th (the day of the whirlwinds in Glamorgan and Shropshire). On the 11th, 12th, and 13th of NOVEMBER several districts in England had thunderstorms accompanied mostly by hail, and on the 28th and 29th DECEMBER they occurred in all districts, sometimes accompanied by snow.

5. **Dry Periods.**—During the first half of APRIL little or no rain fell in many localities, more especially in Ireland, and in the latter part of MAY there was a complete drought of from 14 to 19 days in the south-eastern districts of England. In the three months JUNE, JULY, AUGUST many districts reported long dry, or partially dry, periods. In particular during the 103 days ending on the 29th AUGUST only about 1 in. of rain fell at Exmouth. In the last three weeks of JUNE a great many places had less than ·1 in., and in the period ending on AUGUST 8th Exmouth had 29, Teignmouth 30 and South Hanningfield 34 consecutive days without rain, whilst several other stations had from 20 to 24 dry days; Redruth enjoyed the driest JULY in 34 years' records. In many parts of Scotland OCTOBER was an unusually dry month, the records of several places showing rainless periods of 8 or 10 days. During DECEMBER many consecutive days after the first week were quite rainless over a wide area in England. At Tottenham no rain fell between the 7th and 22nd—a period of 16 days; and at Durham there were 20 days without rain—from the 5th to 24th.

6. **Temperature.**—All over the country the mean temperature for the year was above the normal, the most remarkable feature being the absence of any very high or very low readings. On the 13th and 14th JANUARY there were several sharp frosts with many records below 20°, 10° at Newton Rigg and 8° at Mayfield (Staffs). MAY was an extremely variable month, with frost in many localities on the 6th and 7th, and unusual heat from the 25th to the 30th. In the latter case day readings of 80° were numerous over England, and 84° was reached at some London stations; the nights were also very warm—in many instances the minima lying between 55° and 62°. On the 16th and 17th JUNE the highest temperatures of the year were registered in Eastern and South-Eastern England, the extreme value however being only 85° (at Chelmsford, New Malden and London). The last four months of the year were remarkable on the whole for their mildness, but the lowest temperatures of the year occurred during the frost which affected a large portion of Scotland, England and Wales towards the end of December. In many places the minima lay between 9° and 13°, and 4°, the lowest for the year, was reached at Braemar on the 31st. The extreme range for the year was in most places less than 70°, but rose to 72° at Balmoral, 73° at Braemar and 74° at Worksop. The localities of smallest range were the Hebrides, Shetland Islands and Scilly Isles. At Castlebay the range was only 35°, at Lerwick and Scilly 38°; on the mainland the lowest ranges were 40° at Blacksod Point and Malin Head, 43° at Holyhead and 46° at Falmouth and Penzance.

7. **Bright Sunshine.**—The duration of bright sunshine was everywhere considerably less than the normal. AUGUST was an unusually bright month in Ireland, in the greater part of Scotland, and in the north-west of England. In OCTOBER the amount of insolation was in most places above the average, but in almost all other months there was a general deficiency. The aggregate total for the year was as low as 814 hours at Hull, 829 at Bolton, 876 at Fort Augustus, and 884 at Manchester. The southern parts of the country had, as usual, the highest records, 1,599 at Hastings, 1,600 at Bexhill and Worthing, 1,691 at Felixstowe, 1,700 in Jersey, 1,707 in Guernsey, and 1,622 at Broadstairs, whilst Bognor had 1,621 hours. (For distribution of Bright Sunshine, *see* Map 4, p. cxxxi.)

8. **Fog.**—Inland and on the coasts fogs were more than usually frequent in JANUARY and particularly prevalent, both in this country and on the continent, in FEBRUARY. About the middle of the latter month several localities experienced very dense fogs, and in London on the 15th the fog, rising above the housetops, formed a thick canopy which completely shut out the daylight. MARCH and APRIL brought a considerable falling off in the records of fog. The English Channel until now had been unusually free from fog, but the warm weather towards the close of MAY was accompanied by much fog in this quarter and on the western coasts, often dense and leading to numerous casualties. From JUNE to OCTOBER fogs were noted frequently on the eastern and western coasts (and inland on several days in the latter month) but only seldom along the south coast. In NOVEMBER the inland districts were uncommonly free from fog, but it again occurred rather frequently on the eastern and western coasts. As a whole the atmosphere in December was clear, especially inland.

9. **Barometer.**—All over the country the mean pressure for the year differed but little from the normal, the chief difference being in the West of Ireland; at Blacksod there was a deficiency of ·042 in. and at Valencia a deficiency of ·024 in. Pressure over the most of the country was unusually high on FEBRUARY 12th and again on DECEMBER 21st, the height of the barometer in both cases being about 30·7 in. over a large area. On the former occasion 30·72 in. was reached at Kew. The White Star Liner "Celtic" registered the remarkably low reading of 27·44 in. on the morning of the 10th of JANUARY in lat. 50° N., long. 29° W., not far from the position where on FEBRUARY 5th, 1870, the s.s. "Tarifa" registered 27·33 in., the lowest Atlantic reading known. The 19th of MARCH was notable in that on that day the pressure over the whole of Scotland was under 28·5 in. (For comparison of the year's pressure with the normal, *see* Map 1, p. cxxxi.)

10. **Floods.**—The floods of DECEMBER, 1912, in the Thames and other valleys continued for a few days in JANUARY, 1913. The great volume of water which fell on the flat country round Doncaster on the 17th SEPTEMBER caused considerable flooding and inconvenience for a short time but fortunately resulted in little damage.

11. **High Tides.**—The severe gales of the 7th FEBRUARY as already noted, caused in the Shannon the highest tide known for 50 years; at Limerick many houses were flooded. Salcombe on the 29th OCTOBER had an unusually high tide.

12. **Waterspouts.**—A waterspout was observed crossing the mouth of the Towy River on the 15th SEPTEMBER. Three were reported at Claypole during the heavy rainstorm of the 5th October; one at Rousdon on the 7th and several on the 8th of the same month.

13. **Whirlwinds.**—On the 27th OCTOBER one of the most violent tornados ever known in this country visited the Taff Valley in Glamorganshire, and some parts of Shropshire and Cheshire. The phenomena were so remarkable and unusual that a detailed investigation was made and a special report will be issued. On MAY 9th a similar storm but of moderate intensity caused considerable damage to trees, &c., near Crosshaven, Co. Cork. Like the tornados of the United States it was preceded by remarkable noises, the affected area consisting of a narrow path a few miles long.

14. **Earthquakes.**—An earth tremor was felt at Isleworth, Middlesex, at about 5 p.m. on MARCH 22nd. A thunderstorm was then in progress, and a line squall was passing across the neighbourhood from west to east, marked by a sudden and sharp rise of the barometer. (*See* the *Geophysical Journal* for records of seismic disturbances.)

15. **Luminous Sky.**—Luminous skies were noted by several observers during the year. In NOVEMBER magnificent glows at sunrise and sunset were frequently reported, especially from the 27th to the 30th.

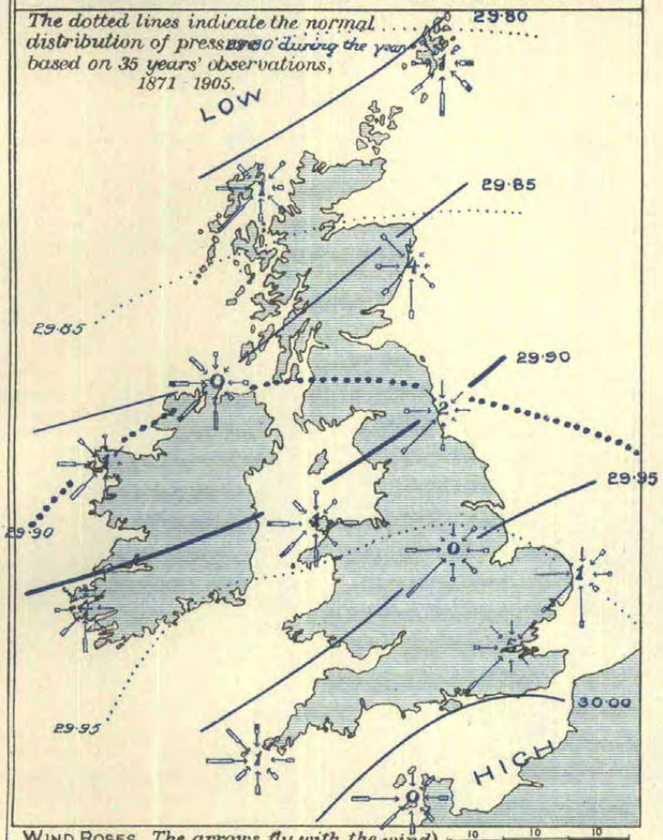
16. **Meteors.**—A brilliant meteor visible for half a minute was observed at Tavistock on MAY 26th. A large one was seen from several places in South Wales and Ireland on AUGUST 3rd. Its height above the earth's surface was calculated at about 87 miles.

17. **Aurora.**—There were a few reports of aurora but none were described as bright.

ANNUAL WEATHER CHARTS, 1913

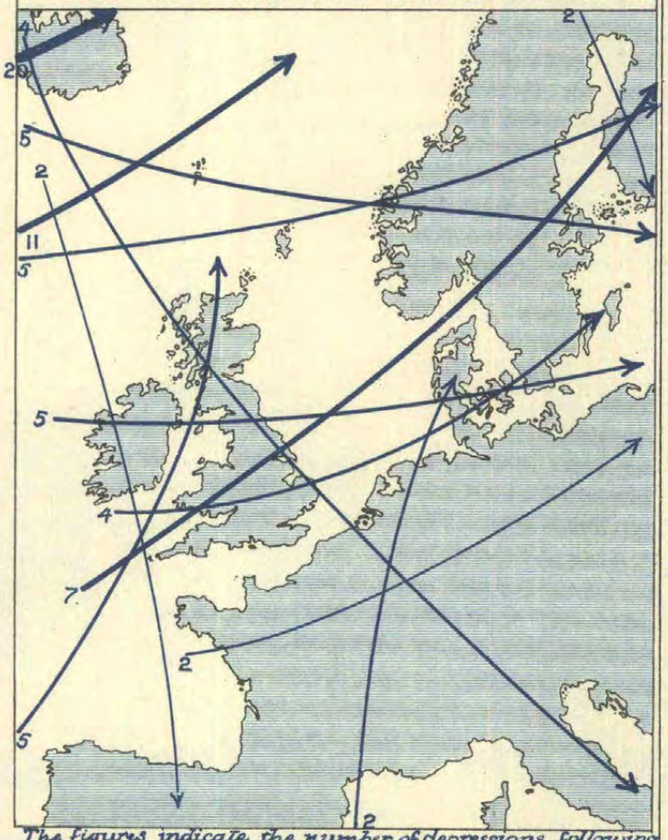
1. WIND AT 7A M AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure during the year based on 35 years' observations, 1871 - 1905.



WIND ROSES. *The arrows fly with the wind and indicate frequency and force, thus:* LIGHT MODERATE STRONG — 30 Obsns - 1 inch

2. MOVEMENTS OF DEPRESSIONS.



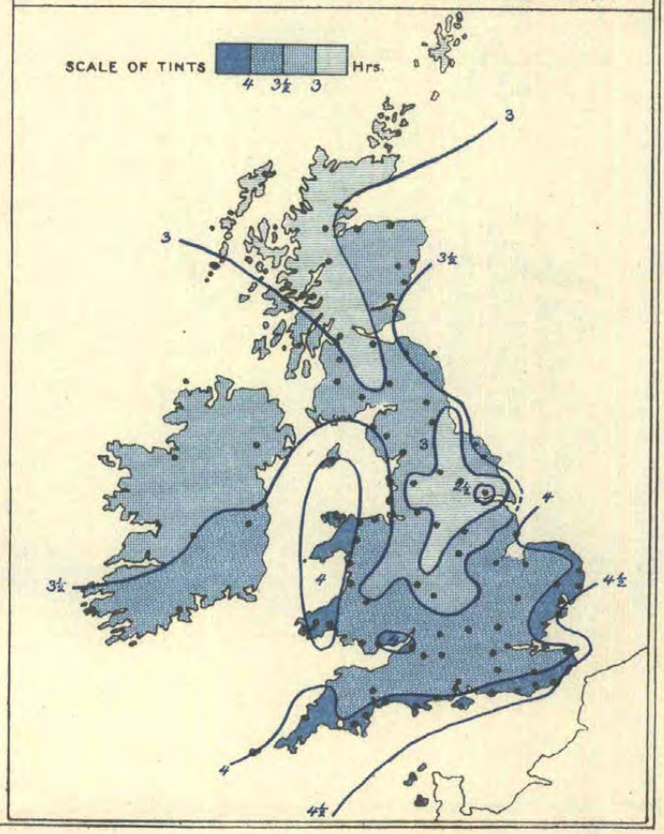
The figures indicate the number of depressions following each path. Some irregular paths are omitted.

3. DISTRIBUTION OF MEAN TEMPERATURE.

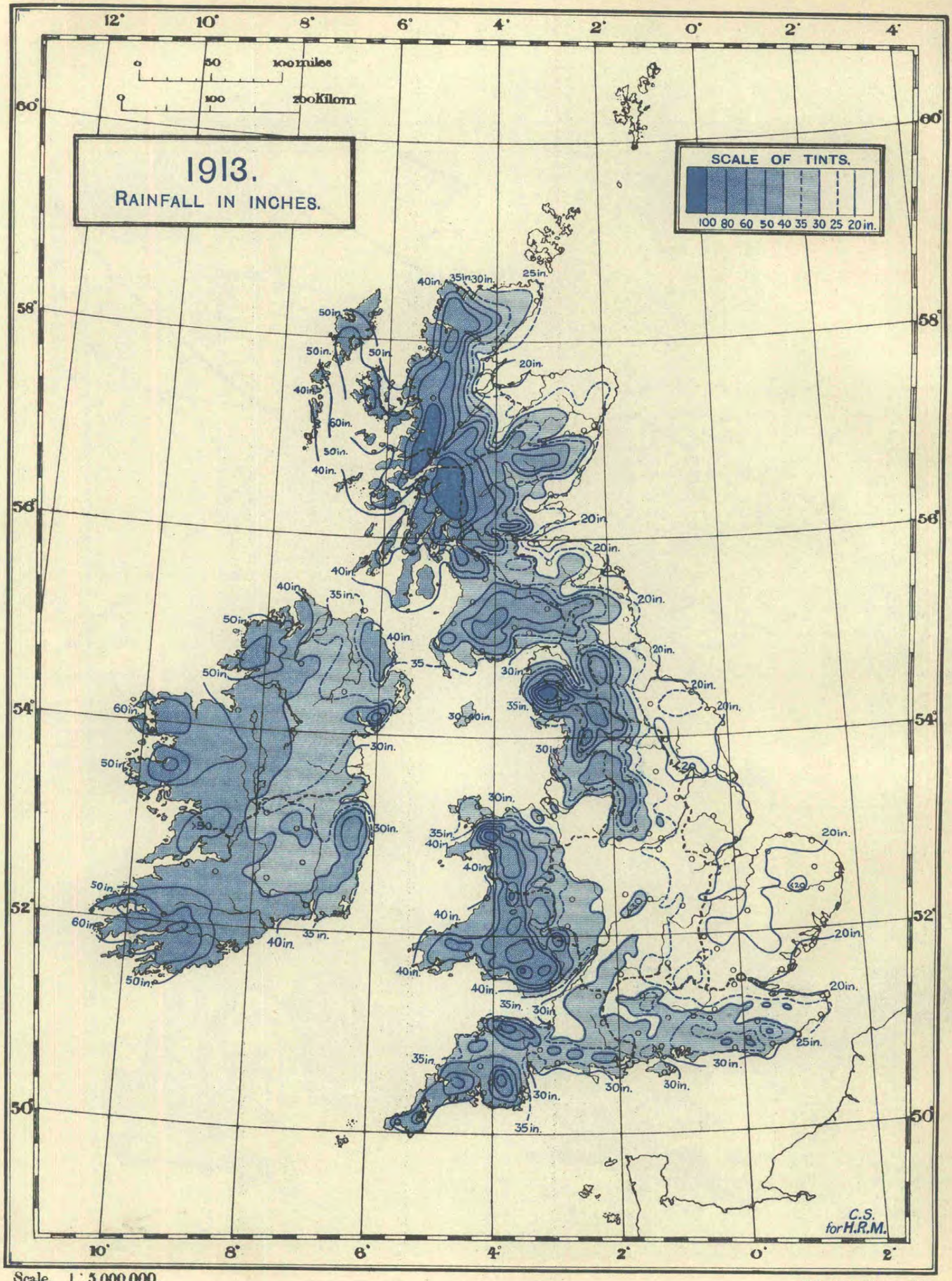
Reduced to sea level by a correction of 1°F for 300 ft.

Sea temperatures are shown in large figures thus 51°

4. BRIGHT SUNSHINE. HOURS PER DAY.



M.O. Press, February, 1914.



Scale 1 : 5,000,000.

M.O. Press, February, 1914.

DISTRICT VALUES—FOR THE WHOLE YEAR 1913.

Districts.	Air Temperature.						Earth Temperature.				Rainfall.			Sunshine.				Cloud. Mean Amount (0–10).			Pressure at M.S.L.			
	Highest.	Lowest.	Means of				At 1 ft.	Difference from Average.	At 4 ft.	Difference from Average.	Total.	Difference from Average.	No. of Days.	Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Highest.	Date.	Lowest.	Date.
			Daily Max.	Daily Min.	Daily Mean.	Difference from Average.																		
	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	in.		hr.	hr.	%	%				in.		in.	
0. SCOTLAND, NORTH ...	79	9	52·0	41·3	46·5	+0·9	47·2	+0·2	—	—	50·0	−2·7	224	2·78	−0·27	23	− 2	7·6	7·3	7·0	30·64	Apr. 4	28·32	Mar. 19
Eastern.																								
1. SCOTLAND, EAST ...	82	4	53·1	39·9	46·3	+0·5	47·0	+0·7	46·9	+0·5	26·4	−4·5	187	3·29	−0·35	27	− 3	7·2	—	7·0	30·65	Feb. 12	28·29	Mar. 19
2. ENGLAND, N.E. ...	82	9	54·7	42·4	48·4	+1·1	48·4	+0·7	48·8	+0·8	22·0	−2·9	177	3·46	−0·52	29	− 4	7·2	—	6·8	30·70	Feb. 12	28·50	Mar. 19
3. ENGLAND, EAST ...	85	18	56·5	43·7	49·9	+1·7	51·0	+0·9	51·6	+0·8	20·6	−3·0	171	3·87	−0·48	32	− 4	7·3	6·8	6·2	30·70	Feb. 12	28·81	Mar. 19
4. MIDLAND COUNTIES	84	8	56·4	42·2	49·0	+1·2	49·1	+0·7	49·6	+0·8	26·2	−0·2	175	3·23	−0·62	27	− 5	7·2	7·0	6·3	30·71	Feb. 12	28·79	Mar. 19
5. ENGLAND, S.E. ...	85	19	57·1	44·7	50·7	+1·2	51·6	+1·2	51·2	+1·1	27·1	0·0	173	3·96	−0·43	33	− 3	7·8	7·1	5·8	30·72	Feb. 12	28·97	Mar. 19
Western.																								
6. SCOTLAND, WEST ...	82	13	54·1	42·3	48·0	+0·6	48·9	—	49·1	+0·7	41·9	−6·6	210	3·31	−0·43	27	− 4	7·4	—	6·6	30·65	Dec. 19	28·42	Mar. 19
7. ENGLAND, N.W. ...	82	10	55·0	43·8	49·2	+1·0	49·4	+1·0	49·6	+0·8	32·5	−2·5	200	3·62	−0·17	30	− 1	7·0	6·8	6·6	30·69	Dec. 21	28·72	Mar. 19
8. ENGLAND, S.W. ...	83	11	56·3	44·8	50·4	+0·9	52·0	+0·9	52·1	+1·0	39·3	+0·4	198	3·87	−0·42	32	− 3	6·9	6·7	5·8	30·70	Dec. 31	28·88	Mar. 28
9. IRELAND, NORTH ...	83	17	54·3	43·0	48·5	+0·5	49·7	+0·3	49·9	+0·1	38·9	+0·3	226	3·28	−0·22	27	− 2	7·2	6·8	6·7	30·68	Dec. 21	28·42	Mar. 19
10. IRELAND, SOUTH ...	80	14	56·1	44·0	49·9	+0·4	51·0	+0·8	50·8	+0·5	43·8	+3·3	230	3·58	−0·40	30	− 3	7·1	7·2	6·2	30·71	Dec. 21	28·67	Jan. 19
11. ENGLISH CHANNEL ...	80	30	57·5	48·1	52·7	+0·6	53·6	+0·7	53·8	+0·7	32·0	−0·8	198	4·45	−0·77	37	− 6	7·0	6·7	6·0	30·68	Mar. 9	28·84	Oct. 29

ADDITIONAL SUNSHINE VALUES.

District and Station.	Daily Mean.	Diff. from Av.	Per cent.	Diff. from Av.
5. ENGLAND, S.E.	hr.		%	
Broadstairs ...	4·44	—	37	—
Littlestone§ ...	4·20	—	35	—
Hove	4·30	—	36	—
Westbourne ...	4·20	—	35	—
LONDON.				
Bunhill Row ...	2·82	−0·30	23	− 3
Plumstead ..	2·99	—	25	—
8. ENGLAND, S.W.				
Port Talbot ...	3·52	—	29	—

ADDITIONAL RAINFALL VALUES.

District and Station.	Total.	Diff. from Av.	Most in a day. Amt.	Most in a day. Date.	No. of days.
5. ENGLAND, S.E.	in.	in.	in.		
Broadstairs	22·43	—	0·85	Sep. 14	173
LONDON.					
South Wimbledon ...	22·83	—	0·73	Oct. 26	157
8. ENGLAND, S.W.					
Forest of Dean (200 ft.)	36·39	—	1·46	Sep. 4	166
Forest of Dean (900 ft.)	40·94	—	1·56	Jan. 11	176

NOTES ON THE STATISTICAL TABLES.

In Tables A and B the letters *a* and *p* indicate whether the readings of the maximum and minimum thermometers are taken at the hours of morning or evening observations. At Aberdeen, Eskdale, Kew, and Valencia these readings are for the twenty-four hours ended at midnight. Local time is used except at the First Order Observatories and Telegraphic Reporting Stations where G.M.T. is used. The air temperature is obtained from thermometers placed in a louvred screen.

Barometer.—The correction for **latitude** has been applied to all the values. The values at sea-level have been corrected for diurnal variation by using the average difference for the month between the mean of the combination of hours shown and the true mean for the 24 hourly observations at the observatories.

Rainfall.—The amounts are those for the 24 hours commenced at the time of morning observation.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These are entered in clarendon type.

Weather Phenomena.—The number of days of **Precipitation, Snow, Hail, Thunderstorm, Fog, Ground Frost,** and **Gale,** are counted irrespective of the hours at which the phenomena occur. Except for rainfall (see above) and ground frost the day is the civil day. A day is reckoned as a day of **"clear sky,"** if the mean of the estimates of the "amount of cloud" at the fixed hours of observation is **less** than 2, and as an **"overcast"** day if the mean is **greater** than 8. A night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less. Extreme values in each district are printed in distinctive type.

Wind Summaries.—The results given under Wind (but not gales) are based on the observations at fixed hours. At Deerness, Aberdeen, Valencia, Falmouth, Kew and Armagh the wind observations are based on the records of a standard Robinson anemometer (factor 2·2). Velocities of between 13 and 38 miles in the hour have been entered as "fresh or strong winds," velocities of 39 miles in the hour, or above, as gales. At Dublin (Phœnix Park) the values from a smaller Robinson Anemometer (factor 2·8) are used. At Eskdalemuir, Brighton and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

Averages.—The normal averages used for stations are—Pressure, Temperature, and Rainfall for the 35 years 1871–1905; Bright Sunshine for the 25 years 1881–1905. The values are published in Appendix III. to the Weekly Weather Report for 1906. For Greenwich and Oxford, averages for longer periods are used. (See Introduction.) Monthly averages of pressure at telegraphic reporting stations for the epoch 7 a.m. are published in Appendix I. to the Daily Weather Report. These averages for the 35 years 1871–1905 have been corrected for diurnal variation and the values in the column "difference from the normal" have been obtained by using these corrected averages with the results for Pressure at Sea Level.

Aberdeen, Kew, Valencia, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Barometer and Mean Temperature are the true daily means computed from the hourly tabulations of the traces of the photographic recording instruments.

Oxford.—The values in the second line are corrected for diurnal variation. (See Introduction.)

Royal Observatory, Greenwich.—The earth temperatures are taken at a depth of 3 ft. 2 ins. The number of days in the year which were persistently overcast from midnight to midnight was 11, the number of persistently cloudless days was 0, the number of persistently foggy days was 0.

¶ § **Mean Values for Districts.**—Stations used in the Weekly Weather Report for computing "district values" of rainfall and temperature are distinguished by the sign ¶, those used for "district values of bright sunshine" by the sign §. These stations are distributed between Tables A and B. The monthly mean values for districts given in this Report for maximum, minimum and mean temperature, sunshine and rainfall, are computed from the data for these "representative" stations. The mean temperature for districts is computed in the manner shown in the preface to this and previous volumes of the Weekly Weather Report. The monthly mean values for districts for "amount of cloud" are computed from the data for all stations included in Table A. The averages for districts with which the current values are compared are for the 25 years 1881–1905, as in the Weekly Weather Report. The "district values" for Earth Temperature are obtained from the data for all stations in Tables A and B, but the differences from average are the means of the differences for those stations for which averages are available. (See Introduction.) The averages are for 5 years 1907–1911.

Scottish Meteorological Society.—Information for stations marked ☭ is supplied by the Scottish Meteorological Society. Stations marked S are in connection with the Society as well as with the Meteorological Office.

TABLE A.—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation, I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°. Station Level.	Diff. from Av.	Mean Sea Level.	AIR TEMPERATURE. Mean of A. Max.	Mean of B. Min.	Mean of A and B.	Difference from Average.	Absolute Maximum and Minimum. Max.	Date.†	Min.	Date.†	EARTH TEMPERATURE. At 1 foot depth.	At 4 feet depth.	HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours. Dry Bulb. I.	II.	III.	Dep. of Wet. I.	II.	III.	Vap. Pressure. I.	II.	III.	Humidity. I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
0. SCOTLAND, N.																											
Islands: *a* Castlebay ...	7, 1, 9	48	9·765	−·020	9·830	51·7	44·7	48·2	+0·7	66	June 17	31	Mar. 15	—	—	48·1	50·0	48·6	1·8	2·5	2·1	·296	·303	·295	87	83	85
Islands: *p* Deerness ... §	9, −, 9	163	9·642	—	9·816	50·0	42·9	46·5	+1·1	65	Aug. 2	29	Apr. 11, 12	—	—	46·4	—	45·3	1·9	—	1·6	·280	—	·274	87	—	88
Islands: *a* Lerwick ... ¶	7, 1, 9	59	9·749	+·002	9·814	49·5	42·4	46·0	+1·3	62	June 20	24	Apr 11	—	—	45·8	47·9	45·9	2·0	2·9	2·1	·267	·270	·267	86	80	85
Islands: *a* Stornoway ... ¶§	7, 1, 9	52	9·770	−·003	9·821	51·8	42·2	47·0	+1·3	67	Aug. 26	23	Dec. 6	—	—	46·1	49·9	46·4	1·5	2·6	1·7	·282	·303	·280	89	83	87
Mainland: *a* Wick ... ¶	7, 1, 9	94	9·723	−·008	9·830	50·0	41·1	45·6	+0·1	70	Aug. 2	18	Dec. 7	—	—	45·2	48·1	45·6	0·8	1·5	0·8	·288	·304	·294	94	89	94
Mainland: *p* Strathpeffer ¶§	9, −, 9	210	9·603	—	9·826	54·4	40·7	47·6	+2·3	76	June 15	15	Dec. 6	—	—	47·2	—	46·0	2·6	—	2·3	·273	—	·265	82	—	83
Mainland: *a* Glencarron ¶	9, −, 9	504	9·292	—	9·841	51·5	40·1	45·8	+0·7	75	July 26	18	Dec. 6, 31	—	—	46·4	—	44·9	2·6	—	2·2	·263	—	·254	82	—	84
Mainland: *p* Ft. Augustus § ¶§	9, −, 9	73	9·771	—	9·847	52·9	41·3	47·1	+0·6	75	July 3	15	Dec. 31	—	—	46·6	—	46·7	1·8	—	1·5	·287	—	·259	88	—	88
Mainland: *p* Ft. William § ¶	9, −, 9	38	9·816	—	9·844	53·8	41·5	47·7	+0·5	78	July 26	18	Dec. 31	—	—	47·4	—	46·6	2·8	—	2·5	·274	—	·269	81	—	82
Mainland: *p* Kingussie ... §	9, −, 9	828	8·956	—	9·855	51·7	38·1	44·9	—	79	July 27	9	Dec. 6	—	—	45·1	—	44·0	3·1	—	2·5	·242	—	·243	79	—	81
Mainland: *p* Dunrobin ... §	9, −, 9	16	9·821	—	9·834	51·7	41·3	46·5	+0·3	68	July 2	24	Dec. 7, 30	48·2	—	47·2	—	46·2	2·3	—	2·1	·278	—	·272	83	—	85
1. SCOTLAND, E.																											
a Nairn ... ¶§	7, 1, 6	82	9·742	−·014	9·837	53·1	39·1	46·1	−0·1	74	May 30	15	Dec. 6, 7	—	—	44·8	50·9	48·2	1·9	3·9	3·0	·260	·285	·278	86	75	80
p Gordon Castle § ¶§	9, −, 9	107	9·738	—	9·852	54·2	40·5	47·4	+0·7	78	June 4	18	Dec. 6	—	—	48·1	—	45·9	2·8	—	2·0	·278	—	·270	81	—	85
Aberdeen ... ¶§	9, 3, 9	88	9·775	−·008	9·873	51·7	42·3	47·0	+0·7	74	Aug. 2	21	Dec. 31	—	46·6	47·1	49·9	46·7	3·1	4·0	2·6	·264	·275	·268	79	75	81
			9·773	−·010	9·871			47·1	+1·2																		
a Balmoral ... § ¶	9, 3, −	927	8·851	—	9·860	53·2	36·9	45·1	—	77	July 28	5	Dec. 7	—	—	42·6	51·6	—	1·9	—	—	·239	—	—	85	—	—
p Braemar ... § §	9, −, 9	1114	8·667	—	9·865	50·9	36·9	43·9	+0·6	77	July 27	4	Dec. 31	—	—	44·4	—	43·0	2·6	—	1·9	·243	—	·244	81	—	86
p Dundee ... § §	9, −, 9	164	9·715	—	9·890	53·7	41·2	47·5	+0·9	80	Aug. 2	20	Dec. 6	—	—	47·2	—	45·7	1·8	—	1·4	·290	—	·281	87	—	90
p Crieff ... § ¶	9, −, 9	436	9·410	—	9·886	53·6	40·2	46·9	+0·2	80	July 3	19	Dec. 6	—	—	46·8	—	45·8	2·8	—	2·2	·264	—	·265	81	—	84
a Leith ... ¶	7, −, 6	37	9·831	−·014	9·874	54·2	42·8	48·5	+0·6	77	Aug. 2	22	Dec. 6, 7	—	—	46·6	—	50·4	2·5	—	3·9	·268	—	·279	83	—	75
p West Linton § ¶§	9, 3, 9	805	—	—	—	52·0	37·7	44·9	−0·3	75	Aug. 3, 16	10	Dec. 6, 31	—	—	45·6	—	—	2·2	—	—	·265	—	—	84	—	—
p Marchmont § ¶§	9, −, 9	500	9·362	—	9·903	53·0	40·0	46·5	+0·9	79	Aug. 3	15	Jan. 14	46·7	—	46·9	—	45·0	2·7	—	1·9	·268	—	·263	82	—	86
2. ENGLAND, N.E.																											
North: *p* Whitby	9, −, 9	158	9·747	—	9·912	56·3	42·8	49·6	+1·6	82	Sep. 27	20	Dec. 31	—	—	51·7	—	47·1	3·6	—	1·8	·307	—	·292	78	—	87
North: *p* Cockle Park §	9, −, 9	331	9·554	—	9·912	52·8	40·7	46·8	—	82	Aug. 3	21	Jan. 14	46·5	47·2	47·4	—	45·3	2·3	—	1·4	·284	—	·280	85	—	90
North: *a* Shields ... ¶	7, −, 6	117	9·789	+·008	9·916	53·6	42·4	48·0	+0·8	76	Aug. 3	23	Mar. 18	—	—	46·3	—	49·5	1·8	—	3·0	·277	—	·288	86	—	80
North: *p* Durham ... ¶§	9, −, 9	352	9·539	—	9·917	53·6	41·0	47·3	+0·5	82	Aug. 3	16	Dec. 31	—	—	47·9	—	46·1	2·2	—	1·5	·294	—	·286	85	—	89
North: *p* Rounton ... ¶	9, −, 9	245	9·646	—	9·908	54·6	41·0	47·8	+1·4	80	Aug. 3	9	Dec. 31	48·3	—	48·0	—	46·2	2·4	—	1·7	·285	—	·281	83	—	88
North: *p* Scarborough ¶§	9, −, 9	127	9·800	—	9·923	54·0	44·1	49·1	+1·3	74	Sep. 11	25	Jan. 14	—	50·0*	49·3	—	48·2	2·3	—	2·0	·305	—	·297	84	—	85
North: *p* York ... ¶§	9, −, 9	53	9·893	—	9·944	56·3	43·0	49·7	+1·6	82	Aug. 3	19	Dec. 6	49·2	49·4	49·1	—	48·1	2·8	—	2·3	·290	—	·289	82	—	84
South: *a* Spurn Head ¶	7, 1, 6	28	9·898	+·004	9·931	53·8	44·0	48·9	+0·6	76	May 29	30	Jan. 14	—	—	48·1	52·4	50·4	1·4	2·9	2·1	·310	528	·322	90	82	86
South: *a* Lincoln ... §	9, −, −	42	9·925	—	9·960	56·5	42·9	49·7	+1·3	81	June 17	19	Jan. 14	48·9	49·5	49·5	—	—	2·5	—	—	·306	—	—	84	—	—
South: *a* Skegness ... §	9, −, −	16	9·945	—	9·953	54	7 42·8	48·8	—	77	May 25, 28	24	Dec. 25	—	—	49·8	—	—	2·3	—	—	·309	—	—	85	—	—
South: *p* Hull	9, −, 9	12	9·946	—	9·952	55·9	43·3	49·6	+1·8	80	May 30	23	Dec. 6	48·4	48·9	50·2	—	48·8	3·0	—	2·3	·299	—	·296	81	—	84
3. ENGLAND, E.																											
North: *p* Lowestoft	9, 3, 9	77	—	—	—	54·8	44·6	49·7	+1·2	74	May 30	26	Dec. 29	50·8	51·1	—	—	—	—	—	—	—	—	—	—	—	—
North: *p* Cromer ... ¶§	9, −, 9	139	9·811	—	9·956	55·9	44·2	50·1	—	80	May 30	24	Jan. 14	—	—	49·3	—	47·9	1·8	—	0·9	·317	—	·320	88	—	94
North: *p* Lit. Massingham ¶§	9, 3, 9	280	—	—	—	56·0	42·4	49·2	+1·0	84	June 16	20	Jan. 14	—	—	49·3	53·3	46·9	2·2	3·5	1·5	·308	·322	·294	86	79	90
North: *a* Yarmouth ... ¶	7, 1, 9	27	9·943	+·025	9·969	55·0	44·7	49·9	+1·8	77	May 30	27	Dec. 26, 29	51·1	51·7	48·1	53·0	49·6	1·4	2·8	1·8	·311	·337	·318	90	82	87
North: *p* Geldeston ... ¶§	9, −, 9	47	9·931	—	9·974	56·8	43·0	49·9	+1·3	82	Aug. 30	25	Dec. 6	—	—	50·2	—	48·1	2·4	—	1·4	·313	—	·307	84	—	90
South: *p* Cambridge... ¶§	9, −, 9	43	9·919	—	9·960	57·8	42·5	50·2	+1·3	84	June 17	24	Jan. 13	50·7	51·3	50·1	—	48·4	2·5	—	1·7	·314	—	·309	84	—	88
South: *a* Clactcn ... ¶§	7, 1, 9	54	9·914	+·011	9·973	55·6	45·4	50·5	+0·9	77	Aug. 30	29	Mar. 18	51·4	52·0	48·9	53·8	50·5	1·6	3·4	2·2	·314	·333	·319	88	79	85
South: *p* Woburn	9, −, 9	294	9·676	—	9·992	56·7	41·8	49·3	—	81	June 16	21	Dec. 31	—	—	49·5	—	48·2	2·4	—	1·8	·307	—	·304	84	—	88
South: *p* Bennington ...	9, 3, 9	411	—	—	—	56·9	42·4	49·7	+1·4	82	June 17	22	Jan. 13	50·7	50·8	49·4	54·2	47·7	2·5	4·9	1·8	·305	·310	·300	84	73	87
South: *p* Berkhamsted ...	9, −, 9	397	9·561	—	9·989	57·3	41·7	49·5	+1·1	83	June 16	22	Jan. 13	50·7	—	49·1	—	47·7	2·6	—	1·8	·300	—	·298	83	—	87
4. MIDLAND COUNTIES.																											
East: *a* Garforth	9, −, 9	198	—	—	—	55·2	40·0	47·7	—	80	Aug. 3	12	Dec. 31	48·0	48·0	48·8	—	47·1	2·7	—	1·9	·293	—	·291	82	—	87
East: *p* Huddersfield ...	9, 3, 9	411	9·486	—	9·933	54·6	42·5	48·6	—	79	Aug. 3	21	Jan. 14	48·4	48·2	47·8	52·4	47·3	2·3	4·2	1·9	·289	·302	·294	84	75	87
East: *p* Sheffield ... §	9, −, 9	450	9·461	—	9·945	55·1	43·6	49·4	+0·9	79	Aug. 3	22	Jan. 14	48·4	48·4	48·8	—	48·5	2·9	—	2·4	·288	—	·294	81	—	83
East: *a* Worksop	9, −, 9	67	9·883	+·004	9·949	57·0	41·6	49·3	+1·3	84	Aug. 3	10	Dec. 31	49·1	49·2	49·3	54·3	—	2·7	4·8	—	·294	·309	—	82	72	—
East: *p* Buxton	9, 3, 9	997	8·873	—	9·955	52·6	40·0	46·3	+1·0	75	Aug. 3	14	Dec. 31	47·8	47·9	46·9	50·4	45·4	2·3	3·2	2·1	·278	·297	·265	85	79	85
East: *p* Belvoir Castle ...	9, −, 9	276	9·674	—	9·969	55·8	42·2	49·0	+0·9	81	Aug. 3	15	Jan. 13	—	49·2	48·2	—	47·7	2·3	—	2·0	·291	—	·291	84	—	86
East: *a* Coventry	9, −, −	309	9·639	—	9·967	56·9	43·1	50·0	+1·1	82	Aug. 3	23	Jan. 13	50·1	50·6	49·8	—	—	2·9	—	—	·296	—	—	81	—	—
East: *a* Thrapston	9, 3, −	251	—	—	—	56·6	41·6	49·1	—	82	June 16	17	Jan. 13, 14	—	—	49·3	54·6	—	2·5	4·8	—	·300	·310	—	84	72	—
East: *a* Nottingham ¶§	7, 1, 9	85	9·860	−·006	9·953	56·4	41·8	49·1	+0·7	82	June 16	16	Jan. 14	48·9	49·3	46·2	54·2	48·6	1·2	4·1	1·8	·292	·320	·306	92	76	87
East: *p* Birmingham ¶§	9, −, 9	542	9·381	—	9·965	55·2	43·3	49·3	+1·2	79	Aug. 3	25	Mar. 18	47·9	48·6	47·0	—	49·0	2·3	—	3·0	·281	—	·289	85	—	81
East: *p* Oxford ... ¶§	8, −, 8	212	—	—	—	57·4	44·3	50·9	+1·9	83	June 16	24	Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
			9·748	+·004	—			50·4											3·0			·298			80		
West: *a* Bath ... ¶§	7, −, 6	84	9·888	+·007	9·981	58·7	43·3	51·0	+1·2	82	June 16	25	Dec. 21, 31	51·9	52·5	48·1	—	54·0	—	—	—	—	—	—	—	—	—
West: *p* Shrewsbury ¶	9, −, 9	212	9·729	—	9·953	57·2	42·0	49·6	+0·6	79	Aug. 3	18	Dec. 31	—	—	49·2	—	48·3	2·5	—	1·9	·301	—	·303	84	—	87
West: *p* Wistanstow ...	9, −, 9	484	9·424	—	9·945	56·3	41·7	49·1	—	80	Aug. 3	18	Dec. 31	—	—	49·2	—	47·1	2·1	—	1·1	·309	—	·305	86	—	92
West: *p* Bromyard	9, −, 9	400	9·523	—	9·952	56·3	42·1	49·2	—	79	July 29	22	Jan. 13	50·0	49·9	49·7	—	47·8	2·6	—	1·8	·307	—	·302	83	—	87
West: *p* Cheltenham ...	9, −, 9	206	9·757	—	9·974	57·1	44·1	50·6	+2·0	81	June 16	22	Dec. 31	—	—	51·0	—	49·2	2·8	—	2·1	·311	—	·307	82	—	86
5. ENGLAND, S.E.																											
p Reading	9, −, 9	264	9·695	—	9·976	57·6	42·4	50·0	—	82	June 16	23	Jan. 13, 22	—	—	49·5	—	49·3	1·3	—	1·2	·332	—	·330	91	—	92
p Salisbury (Wilton) ¶	9, −, 9	186	—	—	—	57·9	42·1	50·0	+1·0	83	June 16	21	Dec. 31	52·1	—	50·4	—	48·6	2·2	—	1·5	·320	—	·312	86	—	90
a Grayshott	9, 2, −	659	9·278	—	9·994	55·8	42·8	49·3	—	80	June 16	24	Mar. 18	50·0	—	48·9	54·2	—	2·1	4·4	—	·304	·314	—	87	74	—
a Midhurst	9, 2, −	453	9·450	—	9·985	56·0	43·9	50·0	—	81	May 25	27	Feb. 22	—	—	49·9	54·2	—	2·2	3·9	—	·317	·333	—	86	77	—
a Brighton	9, −, −	48	—	—	—	57·0	46·8	51·9	+1·5	80	June 29	29	Jan. 13	—	52·9	—	—	—	—	—	—	—	—	—	—	—	—
a Portsmouth ...	9, −, −	18	9·987	—	9·999	58·1	46·7	52·4	+2·1	81	June 29	29	Jan. 13	53·0	53·4	52·6	—	—	2·8	—	—	·331	—	—	82	—	—
p Eastbourne §	9, −, 9	36	9·960	—	9·995	57·1	46·4	51·8	+1·7	79	July 31	29	Feb. 14	52·9	53·2	52·7	—	51·5	2·7	—	1·8	·340	—	·342	83	—	87
a Dover	7, −, 6	234	9·734	+·011	9·988	55·7	44·9	50·3	—	78	June 16	27	Dec. 30	51·1	51·0	49·5	—	51·2	1·6	—	2·0	·323	—	·333	89	—	86
a Dungeness... ¶	7, 1, 6	21	9·947	+·009	9·974	56·1	45·9	51·0	+1·2	76	May 26	26	Dec. 26, 30	—	—	50·4	54·8	52·8	1·9	3·4	2·4	·326	·346	·343	87	79	84
p Hastings ... ¶	9, −, 9	174	9·809	—	9·991	56·5	46·3	51·4	+1·6	79	June 16	28	Dec. 29	52·4	52·5	51·9	—	50·1	2·9	—	1·9	·320	—	·319	82	—	87
p Southampton ¶§	9, −, 9	84	9·907	—	9·992	58·0	45·4	51·7	+1·2	82	June 29	26	Jan. 13	—	—	51·3	—	50·9	2·7	—	2·3	·324	—	·326	83	—	85
a Ventnor ... ¶§	9, 3, −	80	9·888	—	9·968	57·2	47·5	52·4	+1·1	75	Aug. 27	28	Dec. 31	—	—	52·6	55·2	—	2·8	3·9	—	·331	·340	—	82	77	—

NOTE.—The Sunshine entered to Woburn is recorded at Aspley Guise, and that entered to Portsmouth at Southsea. *At 3 feet.

† In some cases the extreme values occurred in more than one month.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the whole Year 1913.

BRIGHT SUNSHINE.				CLOUD (0–10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of Days of										WIND. No. of Observations reduced to a total of 1095 for the year.									STATIONS.
				Mean Amount.					Most in a day.												Force (0–12).		Direction.								
Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Date.†	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunderstorm	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4–7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				in.	in.	in.																						
3·13	—	26	—	7·9	7·6	7·2	38·2	—	0·83	Oct. 13	257	203	23	—	51	5	6	186	23	—	22	537	37	66	65	113	139	130	174	205	166	Castlebay.
2·72	−0·50	22	− 5	7·5	—	7·0	29·2	−7·0	0·76	June 9	206	171	23	10	17	7	9	167	42	—	26	565	74	98	57	65	185	207	138	151	120	Deerness.
—	—	—	—	7·5	6·9	7·4	39·9	—	1·10	Jan. 23	243	183	34	—	33	2	2	120	37	—	81	411	26	111	66	109	192	202	166	128	95	Lerwick.
2·93	−0·54	24	− 5	7·5	7·3	7·4	47·0	−1·6	1·08	Oct. 13	249	192	23	—	17	4	11	166	8	—	44	581	25	66	118	56	111	185	280	148	106	Stornoway.
—	—	—	—	7·4	7·2	6·9	24·6	−4·7	0·81	Sept. 15	214	165	30	—	11	0	0	92	34	—	47	439	59	65	77	48	136	215	206	162	127	Wick.
3·07	−0·18	25	− 2	7·1	—	6·0	25·6	−6·6	0·66	Dec. 1	195	131	28	31	4	2	23	118	6	—	7	266	457	23	25	67	44	71	184	147	77	Strathpeffer.
—	—	—	—	8·1	—	6·9	87·2	−2·0	2·69	Oct. 24	235	204	30	22	11	3	32	220	15	—	20	526	11	168	17	274	8	24	9	546	38	Glencarron.
2·40	−0·03	20	0	8·0	—	7·0	45·5	+0·9	1·20	Nov. 2	206	154	20	18	4	6	19	190	6	—	14	391	19	56	271	51	22	70	528	65	13	F. Augustus.
—	—	—	—	8·1	—	7·2	80·2	+1·6	1·83	Nov. 19	229	185	23	17	4	3	19	213	21	—	3	252	297	3	120	47	47	42	470	54	15	Ft. William.
—	—	—	—	8·1	—	7·2	29·1	—	?	?	195	148	33	50	0	2	23	212	3	—	20	328	176	56	71	86	24	64	174	355	89	Kingussie.
—	—	—	—	6·5	—	7·3	26·3	−5·2	1·40	Sept. 15	152	126	18	5	1	4	23	137	1	—	14	124	285	24	24	304	23	24	74	308	29	Dunrobin.
3·22	—	27	—	7·3	6·5	7·0	21·8	−2·9	0·81	Sept. 13	200	126	21	—	8	3	1	72	3	—	25	128	295	41	92	91	45	58	148	266	59	Nairn.
3·40	—	28	—	7·3	—	7·1	22·0	−8·5	1·21	Sept. 15	174	117	29	10	0	7	8	144	4	—	7	229	0	35	109	16	225	193	309	64	144	Gordon C.
3·40	−0·43	28	− 4	6·6	6·4	6·3	23·8	−6·9	1·29	Mar. 22	178	114	19	5	6	5	29	134	24	—	1	238	148	74	29	60	141	241	178	104	120	Aberdeen.
—	—	—	—	6·8	—	—	31·2	—	1·00	May 8	188	147	39	54	0	7	59	165	2	137	35	177	0	72	45	60	60	51	201	375	231	Balmoral.
—	—	—	—	6·3	—	—	30·9	−5·1	1·41	May 8	180	147	49	57	2	7	19	100	2	153	17	213	9	45	114	96	54	117	453	129	78	Braemar.
—	—	—	—	7·9	—	8·3	23·2	−5·8	0·95	May 9	165	123	17	7	1	7	13	216	12	—	20	168	0	31	143	102	181	49	377	98	114	Dundee.
—	—	—	—	7·9	—	7·0	38·2	−3·3	1·24	Jan. 11	201	150	23	39	5	10	16	187	0	—	20	325	0	54	58	349	23	27	85	416	83	Crieff.
—	—	—	—	7·1	—	6·8	17·9	−5·9	0·89	Mar. 22	156	101	15	—	1	4	9	141	24	—	1	204	74	41	118	102	116	95	241	256	52	Leith.
2·75	—	23	—	7·6	—	—	30·5	—	1·24	Dec. 3	220	157	40	34	8	10	17	167	15	—	—	—	—	—	—	—	—	—	—	—	—	West Linton.
3·27	−0·37	27	− 3	7·1	—	6·4	26·1	−8·3	0·96	June 19	179	134	21	19	3	11	34	169	0	86	6	208	0	120	79	242	57	85	121	336	55	Marchmont.
3·64	—	30	—	7·0	—	6·6	22·0	−3·7	1·29	Oct. 4	162	111	12	5	19	9	12	133	11	—	17	307	204	103	60	65	78	112	209	194	70	Whitby.
3·69	—	31	—	7·0	—	6·3	26·0	−4·1	1·15	Jan. 12	210	134	26	17	3	10	6	124	14	83	17	206	27	65	92	87	104	73	126	392	129	Cockle Park.
—	—	—	—	8·1	—	7·8	24·6	−0·4	1·28	Sept. 26	183	110	16	—	0	5	1	220	27	—	3	171	36	107	102	101	91	170	256	166	66	Shields.
2·99	−0·61	25	− 5	8·1	—	7·4	23·4	−3·9	1·51	Oct. 7	174	117	23	10	2	13	17	205	31	70	21	270	259	72	58	53	46	187	179	160	81	Durham.
—	—	—	—	7·6	—	7·0	24·7	−1·9	1·12	July 14	197	112	14	5	2	15	26	188	46	105	13	259	125	90	106	24	120	213	216	71	130	Rounton.
3·54	—	29	—	7·5	—	8·0	19·4	−7·9	0·82	May 30	187	119	5	0	1	5	0	149	38	—	3	536	0	49	147	19	158	16	404	49	253	Scarborough
2·89	−0·60	24	− 5	6·5	—	6·5	20·5	−4·8	1·16	Jan. 11	185	110	11	1	2	8	32	135	24	—	0	43	12	166	70	86	70	268	100	241	82	York.
—	—	—	—	6·8	7·0	6·9	18·0	−1·6	0·89	Sept. 1	163	105	13	—	4	13	4	87	46	—	41	690	18	96	97	138	141	172	149	190	94	Spurn Head.
—	—	—	—	6·4	—	5·1	19·8	−3·5	1·32	Jan. 11	147	91	9	0	0	5	66	133	14	—	3	190	29	29	82	149	137	47	210	271	141	Lincoln.
4·10	—	34	—	7·1	—	—	18·8	—	0·85	Sept. 16	178	102	4	0	0	4	41	171	18	—	4	720	3	123	126	81	72	222	273	99	96	Skegness.
2·23	—	18	—	6·8	—	6·1	20·5	−5·3	0·98	Jan. 11	179	111	15	11	3	9	39	135	11	81	3	68	180	74	137	54	101	93	294	90	72	Hull.
4·20	—	35	—	—	—	—	21·9	−1·8	1·99	July 14	158	104	—	—	—	—	—	—	—	41	—	—	—	—	—	—	—	—	—	—	—	Lowestoft.
3·95	—	33	—	7·8	—	6·8	16·2	—	0·62	May 27	203	108	5	2	0	7	4	161	8	—	0	526	3	97	44	69	202	246	174	162	98	Cromer.
3·71	−0·39	31	− 3	7·0	6·8	5·8	22·4	−5·1	1·75	Oct. 5	183	108	10	9	8	22	21	115	16	94	8	314	29	101	129	82	87	151	272	162	82	L. Mas'gh'm.
4·11	—	34	—	6·3	6·2	6·0	22·6	−2·8	0·76	Oct. 26	160	112	10	—	4	12	12	70	28	—	1	195	28	99	104	96	124	166	192	210	76	Yarmouth.
3·95	−0·48	33	− 4	7·1	—	5·6	22·3	−1·5	1·49	July 14	189	107	11	1	2	21	43	137	26	—	0	35	39	110	96	128	111	131	198	206	76	Geldeston.
3·93	−0·33	33	− 2	7·3	—	5·6	18·7	−4·0	1·18	June 17	158	104	9	4	8	19	37	150	28	91	8	97	136	159	48	20	168	153	222	107	82	Cambridge.
4·26	—	35	—	7·0	6·8	6·6	18·8	—	1·06	May 27	145	100	12	—	2	10	4	114	8	34	1	305	16	78	110	87	146	158	186	188	126	Clacton.
3·58	—	30	—	7·7	—	6·1	21·3	—	0·92	Sept. 1	175	120	10	3	5	11	27	160	28	—	13	250	163	55	139	67	67	119	240	170	75	Woburn.
3·69	—	31	—	7·3	7·2	6·0	21·8	−4·2	0·87	June 17	168	122	9	8	5	16	20	145	41	89	0	76	166	23	90	107	110	100	192	259	48	Bennington.
3·68	—	31	—	7·6	—	6·2	24·0	−4·4	0·72	Oct. 2	184	120	14	0	12	15	30	154	23	117	1	18	358	62	68	47	68	125	143	174	50	Berkh'mst'd.
2·69	—	22	—	7·2	—	6·6	21·3	—	1·11	Jan. 11	206	121	18	17	7	5	22	143	18	132	0	34	57	119	104	154	65	215	120	220	41	Garforth.
2·74	—	23	—	6·8	6·9	6·5	32·8	—	1·10	Dec. 26	207	144	20	16	7	8	26	140	16	62	13	188	194	70	117	82	68	80	124	255	105	Huddersf'ld.
3·02	—	25	—	7·4	—	7·1	30·5	−2·0	1·69	Sept. 17	181	126	19	0	2	10	9	157	32	63	0	171	142	124	76	43	104	153	194	166	93	Sheffield.
2·90	−0·52	24	− 4	7·7	7·7	6·6	22·3	−3·1	1·07	Jan. 11	164	110	13	14	1	15	20	169	19	103	0	158	101	109	127	36	133	123	249	131	86	Worksop.
3·05	—	25	—	7·3	6·2	6·0	41·9	−8·7	1·30	Mar. 22	232	170	20	12	4	5	33	130	0	86	0	39	51	34	107	75	128	80	226	207	187	Buxton.
3·52	—	29	—	6·9	—	5·4	23·6	−1·8	1·40	Oct. 5	181	111	12	7	5	27	43	129	90	71	15	249	258	99	56	21	55	179	237	125	65	Belvoir C.
3·20	—	27	—	7·1	—	—	26·4	+0·6	1·35	Apr. 29	185	124	10	2	6	8	64	212	12	107	0	243	81	63	177	69	114	177	204	117	93	Coventry.
3·54	—	29	—	7·4	7·0	—	19·1	—	1·03	Jan. 11	150	97	11	10	4	21	20	175	20	83	—	—	28	89	75	145	89	136	176	189	168	Thrapston.
3·03	—	25	—	7·3	7·3	6·0	22·3	−2·5	1·14	Oct. 5	186	107	10	—	5	11	16	137	27	73	28	373	3	61	124	161	83	121	266	219	57	Nottingham.
2·82	—	23	—	7·3	—	6·3	27·1	−0·3	0·87	Jan. 4	183	129	10	0	0	10	39	165	9	108	1	94	193	54	74	102	95	168	179	139	91	Birmingh'm.
3·56	−0·54	29	− 5	—	—	—	25·2	+0·2	1·78	Oct. 2	188	116	11	5	23	19	—	—	35	68	9	—	—	—	—	—	—	—	—	—	—	Oxford.
				7·1			25·4	−0·6																							
3·86	—	32	—	7·7	—	7·1	28·6	−1·8	1·28	Sept. 4	180	126	—	—	—	—	25	198	—	—	—	228	119	57	95	159	76	122	146	269	52	Bath.
—	—	—	—	7·3	—	6·3	25·9	—	1·15	Oct. 5	163	125	8	3	7	5	24	139	16	70	5	92	151	69	89	29	97	127	256	109	168	Shrewsbury.
—	—	—	—	7·7	—	6·5	34·0	—	1·76	Oct. 5	175	132	16	8	8	8	24	180	14	77	5	100	504	42	66	23	35	32	232	98	63	Wistanstow.
—	—	—	—	7·1	—	5·7	32·0	—	1·10	Oct. 4	174	134	11	5	4	10	34	128	34	88	1	113	294	61	46	94	78	202	129	148	43	Bromyard.
3·48	—	29	—	6·4	—	5·5	26·7	−0·9	0·99	Jan. 11	158	115	8	1	5	9	45	116	3	83	17	328	82	53	98	21	116	123	437	52	113	Cheltenham.
3·96	—	33	—	7·4	—	6·6	24·3	−0·8	0·85	Nov. 21	173	123	8	6	1	4	29	181	10	—	3	126	362	88	49	29	49	125	184	149	60	Reading.
—	—	—	—	7·0	—	5·9	38·9	+6·7	1·32	Sept. 4	228	133	6	0	7	10	21	112	32	70	3	323	5	116	109	27	117	101	249	170	201	Salisbury.
3·69	—	31	—	7·1	7·3	—	37·2	—	1·38	Sept. 4	209	141	14	2	2	14	17	178	26	80	10	144	64	76	148	84	132	108	145	189	149	Grayshott.
3·65	—	30	—	7·0	6·9	—	36·6	—	1·55	Sept. 4	207	140	7	0	7	10	28	170	11	—	11	411	28	58	146	62	127	105	263	132	174	Midhurst.
4·34	−0·39	36	− 3	—	—	—	32·1	+4·5	1·41	Aug. 31	168	127	—	—	—	—	—	—	—	—	0	383	—	—	—	—	—	—	—	—	—	Brighton.
4·34	—	36	—	6·2	—	—	30·0	+2·4	1·09	Oct. 6	165	129	2	0	4	5	90	159	10	48	0	669	9	102	114	99	132	81	123	177	258	Portsmouth.
4·41	−0·34	36	− 3	6·3	—	4·8	31·9	+1·0	1·30	Aug. 31	176	124	1	0	3	5	80	120	7	—	10	44	36	98	216	47	83	41	279	128	167	Eastbourne.
4·48	—	37	—	6·4	—	5·6	25·8	—	0·86	Aug. 31	206	126	9	—	11	17	40	111	12	?26	18	494	40	118	143	35	80	123	334	86	136	Dover.
—	—	—	—	7·1	6·9	6·7	25·0	+2·2	1·11	Aug. 31	145	112	6	—	2	15	4	97	29	—	40	574	13	85	171	88	73	131	314	130	90	Dungeness.
4·38	−0·49	36	− 4	6·3	—	5·2	30·7	+1·6	1·38	Aug. 31	180	130	3	1	4	16	56	120	4	35	19	385	27	133	109	96	95	104	281	172	78	Hastings.
3·89	−0·66	32	− 6	6·4	—	4·9	32·0	+1·1	1·15	Aug. 31	182	133	3	0	6	14	50	110	22	52	1	156	0	3	247	9	164	6	366	18	282	S'mpton.
4·35	−0·36	36	− 3	6·7	6·4	—	21·7	−7·9	0·80	Dec. 23	190	123	2	0	4	7	35	143	2	—	8	343	21	99	83	162	92	159	233	187	59	Ventnor.

and the monthly issues must be consulted for a complete list of dates.

TABLE A. (*continued*).—Giving a SUMMARY of the METEOROLOGICAL OBSERVATIONS made at 9 a.m., 3 p.m. and 9 p.m. at NORMAL STATIONS in the BRITISH ISLANDS

DISTRICTS AND STATIONS.	Hours of Observation I, II, III.	Height of Barometer cistern above M.S.L.	BAROMETER. Mean corrected to 32° F. and Lat. 45°.			AIR TEMPERATURE.								EARTH TEMPERATURE.		HYGROMETER. I = Morning; II = Afternoon; III = Evening. *See* Column 1 for exact hours.											
						Mean of				Absolute Maximum and Minimum.						Dry Bulb.			Dep. of Wet.			Vap. Pressure.			Humidity.		
			Station Level.	Diff. from Av.	Mean Sea Level.	Max A.	Min. B.	Mean of A and B.	Difference from Average.	Max.	Date.†	Min.	Date.†	At 1 foot depth.	At 4 feet depth.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.
		Ft.	In.	In.	In.	°F.	°F.	°F.	°F.	°F.		°F.		°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	In.	In.	In.	%	%	%
LONDON.																											
p Tottenham... ¶§	9, –, 9	55	9·918	—	9·970	57·8	45·3	51·6	+1·8	83	June 17	26	Feb. 13	—	52·6	51·1	—	50·6	2·9	—	2·4	·313	—	·322	81	—	84
p Hampstead ...	9, –, 9	453	9·511	—	9·996	56·2	43·8	50·0	—	82	June 17	22	Dec. 31	—	—	49·5	—	49·2	2·6	—	2·3	·299	—	·301	83	—	85
a Camden Square ...	9, –, 9	123	9·860	—	9·986	59·6	44·3	52·0	+1·6	85	June16,17	24	Feb. 23	50·7	50·7	51·4	—	50·4	3·0	—	2·4	·312	—	·313	81	—	83
a Westminster ...	9, 3, –	—	—	—	—	58·4	45·8	52·1	+2·0	82	June 17	28	Jan. 13, 14	—	—	51·7	56·4	—	2·3	4·5	—	·332	·341	—	85	74	—
a South Kensington*	9, 3, 6	70	9·907	—	9·982	58·4	46·8	52·6	—	82	June16,17	31	Jan. 13	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Greenwich... ...	9, 3, 9	159	9·806	—	9·981	58·9	43·6	51·3	+1·8	87	June 17	24	Feb. 22	—	51·9	51·1	55·9	49·4	3·0	5·4	2·3	·308	·314	·304	81	69	85
			9·805	+·008	9·980				50·5	+0·9																	
Kew ... ¶§	9, 3, 9	34	9·947	+·002	9·983	57·6	44·8	51·2	+1·7	83	June 16	25	Jan. 13	5·09	51·3	50·6	56·0	50·5	2·9	5·4	2·7	·309	·320	·314	81	70	82
			9·945	+·001	9·982			51·1	+1·8																		
6. SCOTLAND, W.																											
Eskdalemuir ...	9, 3, 9	778	9·060	—	9·908	51·1	38·4	44·8	—	74	July 1	13	Dec 31	—	—	45·2	49·1	43·9	2·2	3·6	1·6	·264	·276	·261	84	77	87
p Poltalloch ... § ¶	9, –, 9	135	9·727	—	9·872	53·3	41·8	47·6	+0·1	74	July 26	20	Dec. 30	—	—	48·0	—	46·7	2·1	—	1·6	·292	—	·286	85	—	88
a Glasgow‡	7, 1, 9	355	—	—	—	52·8	42·0	47·4	+0·3	73	July 3, 27	22	Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Rothesay ... § ¶	9, –, 9	76	9·804	—	9·882	54·3	42·9	48·6	+0·9	78	July 23	24	Mar. 18	—	48·6	48·3	—	46·9	2·7	—	2·1	·281	—	·277	82	—	85
a Colmonell ... § ¶	9, 3, –	150	9·750	—	9·917	54·8	42·0	48·4	+0·8	73	June 21	20	Dec. 31	—	—	48·4	52·2	—	1·6	2·8	—	·308	·327	—	89	82	—
p Dumfries ... § ¶	9, –, 9	155	9·765	—	9·931	54·2	42·0	48·1	+0·2	78	July 29	17	Jan. 14	48·9	49·5	47·7	—	47·0	2·7	—	2·0	·275	—	·282	82	—	85
p Cally ... § ¶	9, –, 9	120	—	—	—	54·5	41·5	48·0	+1·0	80	Aug. 3	18	Dec. 31	—	—	49·1	—	47·3	2·3	—	2·1	·301	—	·283	85	—	85
p Douglas ... ¶§	9, –, 9	284	9·612	—	9·917	53·6	44·5	49·1	+0·9	74	Aug. 29	23	Mar. 18	—	—	48·9	—	47·8	1·9	—	1·5	·310	—	·306	87	—	89
7. ENGLAND, N.W.																											
a Southport	9, 3, 9	42	9·897	—	9·942	54·9	44·0	49·5	+1·3	76	June 16	22	Dec. 31	49·9	50·3	49·6	53·1	48·4	2·6	4·1	1·9	·304	·312	·305	83	76	87
p Manchester (City)	9, –, 9	195	9·738	—	9·943	56·0	45·3	50·7	—	80	June 16	27	Dec. 31	49·6	51·3	49·7	—	50·1	2·8	—	2 8	·299	—	·304	82	—	82
p „(WhitworthPk.)¶	9, –, 9	127	9·798	—	9·929	56·0	44·5	50·3	—	79	Aug. 29	25	D.c. 31	—	—	50·0	—	49·4	2·6	—	2·0	·305	—	·314	83	—	87
p Darwen	9, –, 9	730	9·156	—	9·944	53·1	41·7	47·4	—	80	Aug. 3	23	Mar. 18	49·0	48·3	47·8	—	46·6	2·3	—	1·6	·290	—	·291	85	—	89
p Egremont	9, –, 9	354	9·538	—	9·918	53·8	42·7	48·3	—	76	Aug. 29	23	Mar. 18	49·4	48·9	48·6	—	47·1	2·1	—	1·5	·304	—	·298	85	—	89
p Aspatria ... ¶§	9, –, 9	254	9·634	—	9·846	54·5	41·8	48·2	+1·1	79	Aug. 29	20	Dec. 31	49·1	48·8	48·7	—	46·7	2·2	—	1·4	·301	—	·296	85	—	90
p Newton Rigg ¶§	9, –, 9	559	9·304	—	9·908	54·2	40·2	47·2	+1·1	79	Aug. 3	10	Jan. 13	48·8	48·0	46·5	—	46·5	1·8	—	1·7	·283	—	·284	87	—	88
p Stonyhurst ¶§	–, –, 9	363	—	—	—	54·0	43·3	48·7	+1·3	76	Aug. 3	21	Dec. 31	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Blackpool ... ¶§	9, –, 9	73	9·855	—	9·929	54·8	43·8	49·3	+1·0	75	June 17	23	Jan. 13, 14	49·7	49·7	50·5	—	48·0	2·7	—	1·5	·312	—	·311	83	—	89
p Liverpool (Bid.) ¶	9, –, 9	202	9·721	—	9·933	54·5	44·6	49·6	+0·7	77	June 16	27	Jan. 14	—	—	49·1	—	48·7	2·7	—	2·2	·291	—	·297	82	—	85
p Llandudno... ¶§	9, –, 9	32	9·882	—	9·909	55·8	45·3	50·6	+0·7	74	May 30	27	Dec. 31	—	—	51·0	—	50·6	2·6	—	2·6	·314	—	·310	83	—	83
a Holyhead ... ¶	7, 1, 9	48	9·892	–·012	9·922	54·6	46·3	50·5	+0·8	74	Aug. 28	31	Feb. 22	—	—	49·1	53·0	49·9	—	—	—	—	—	—	—	—	—
p Bettws-y-Coed ¶§	9, –, 9	125	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
p Dwyran	9, –, 9	30	9·912	—	9·937	55·4	44·9	50·2	—	74	July 30	23	Dec. 31	51·7	51·2	51·5	—	49·6	1·7	—	0·7	·344	—	·344	88	—	95
8. ENGLAND, S.W.																											
a Llangammarch ¶§	9, –, –	585	9·933	—	9·964	55·5	41·0	48·2	+0·4	79	Aug. 3	11	Dec. 31	49·1	49·6	48·1	—	—	1·5	—	—	·307	—	—	89	—	—
a Pembroke ... ¶§	7, 1, 9	150	9·774	–·021	9·937	55·1	46·9	51·0	+1·1	73	Aug. 28	27	Feb. 20, 21	—	—	49·5	52·6	50·3	1·0	1·9	1·2	·335	·354	·341	92	87	91
a Portland Bill ¶	7, 1, 9	37	9·937	–·011	9·972	55·8	48·4	52·1	+1·1	74	July 23	31	Dec. 31	—	—	51·2	54·3	51·7	2·0	2·8	2·1	·332	·353	·345	87	83	86
p Plymouth ... ¶§	9, 3, 9	116	9·844	—	9·967	57·4	46·8	52·1	+1·2	77	June 29	29	Jan. 14	53·0	—	52·9	55·3	51·4	2·4	3·4	1·8	·343	·350	·339	84	79	88
Falmouth ... ¶§	7, 1, 6	183	9·788	—	9·983	56·4	46·9	51·7	+0·7	74	Aug. 14	28	Dec. 31	—	—	50·2	54·9	52·6	1·8	3·7	2·8	·327	·341	·333	88	77	82
p Cardiff ... ¶	9, –, 9	216	9·734	—	9·963	56·5	44·2	50·4	+0·6	79	Aug. 3	23	Feb. 14	51·1	51·3	50·0	—	49·4	2·5	—	2·2	·306	—	·305	83	—	85
a Newquay ... §	7, –, 6	161	9·814	–·007	9·961	55·4	46·5	51·0	–0·1	74	Aug. 26	27	Feb. 21	52·8	—	50·8	—	52·4	1·9	—	2·4	·330	—	·337	87	—	84
p Woolacombe ...	9, –, 9	120	9·854	—	9·978	56·7	47·4	52·1	–0·1	78	June 16	30	Dec. 31	—	—	52·6	—	51·5	2·6	—	2·2	·338	—	·332	88	—	85
a Princetown ...	9, 3, –	1360	8·477	—	—	52·3	42·2	47·3	—	73	May 26	23	Dec. 31	—	—	47·1	49·9	—	1·8	2·9	—	·290	·296	—	88	81	—
p Sheepstor	9, 3, 9	730	9·182	—	9·971	55·2	41·0	48·1	—	76	May 26	18	Dec. 31	—	—	49·6	53·1	46·7	2·0	3·3	1·0	·320	·330	·306	87	80	93
p Teignmouth ...	9, 3, 9	20	9·961	—	9·976	58·0	46·8	52·4	—	78	June 29	28	Jan. 13	—	—	51·9	55·9	52·3	2·9	4·4	2·8	·325	·340	·330	82	75	82
9. IRELAND, N.																											
West. *a* Malin Head ¶	7, 1, 6	230	9·583	–·029	9·840	52·5	44·1	48·3	–0·1	70	June 17	30	Dec. 29	—	—	47·1	50·6	49·1	1·1	1·5	1·4	·301	·335	·321	92	89	90
West. *a* Blacksod Point ¶	7, 1, 9	41	9·818	–·042	9·862	54·1	45·0	49·6	0·0	71	June 17	31	Dec. 31	—	—	49·2	52·4	49·7	1·6	2·4	1·6	·315	·335	·323	89	84	89
West. *p* Markree Castle ¶§	9, –, 9	127	9·756	—	9·890	55·3	41·0	48·2	—	75	June 17	17	Dec. 31	50·4	50·1	48·1	—	46·6	2·1	—	1·5	·294	—	·287	86	—	89
East. *a* Donaghadee ¶	7, 1, 9	40	9·852	–·018	9·895	53·3	43·9	48·6	+0·3	71	Aug. 25	27	Jan. 13	—	—	46·7	51·3	47·9	1·5	2·9	1·7	·289	·312	·298	89	81	88
East. *p* Armagh ... ¶§	9, –, 9	202	9·669	—	9·883	55·0	42·1	48·6	+0·9	77	Aug. 2	17	Dec. 31	49·9	49·9	49·1	—	46·5	2·6	—	2·0	·297	—	·280	83	—	85
East. *a* Belfast	9, –, 9	55	—	—	—	55·2	42·4	48·8	—	77	Aug. 2	21	Dec. 31	—	—	49·8	—	47·7	3·0	—	2·2	·296	—	·289	80	—	85
East. *p* Newtownforbes ...	9, –, 9	172	—	—	—	55·1	40·8	48·0	—	77	Aug. 2	17	Dec. 31	48·9	49·8	48·5	—	47·0	2·0	—	1·2	·301	—	·300	87	—	91
10. IRELAND, S.																											
East. *p* Dublin (Trin. Coll.)	9, –, 9	17	—	—	—	56·6	44·3	50·5	—	77	Aug. 14	25	Jan. 13	50·8	50·8	51·1	—	49·9	3·3	—	2·5	·306	—	·308	79	—	83
East. *p* „ (Phœnix Pk.)§	9, –, 9	159	9·748	—	9·916	56·0	40·9	48·4	+0·5	76	Aug. 14	19	Jan. 13	—	—	50·2	—	46·9	2·7	—	1·5	·307	—	·295	82	—	89
East. *p* „ (City)... ¶	9, –, 9	53	9·853	—	9·906	55·8	45·1	50·4	+0·5	75	June 17	26	Dec. 31	—	—	49·8	—	49·3	2·8	—	2·3	·302	—	·307	82	—	85
West. *a* Birr Castle... ¶§	7, 1, 6	173	9·703	–·044	9·898	55·7	41·6	48·7	+0·3	77	Aug. 2	18	Dec. 31	50·5	50·8	45·9	53·5	51·7	1·2	3·7	3·0	·288	·322	·317	92	77	81
West. Valencia ... ¶§	9, 3, 9	45	9·873	–·024	9·920	55·2	46·1	50·7	–0·2	75	July 1	27	Dec. 31	—	—	50·8	53·6	50·4	2·2	3·1	2·0	·330	·341	·326	86	81	87
			9·868	–·027	9·917				50·9	0·0																	
West. *a* Roche's Point ¶	7, 1, 6	42	9·887	–·012	9·939	55·4	45·9	50·7	0·0	76	Aug. 14	29	Dec. 31	—	—	49·2	53·9	52·4	1·0	2·5	1·9	·328	·353	·349	93	84	88
West. *p* Limerick (Mungret Coll.)	9, 3, 9	50	9·846	—	9·899	56·2	42·2	49·2	—	77	Aug. 2	18	Dec. 31	51·7	—	49·4	53·8	48·1	1·7	3·0	1·0	·319	·341	·317	89	81	93
11. ENGLISH CHANNEL.																											
a Scilly ... ¶§	7, 1, 9	152	9·795	–·004	9·960	56·2	47·9	52·1	–0·2	70	Aug. 1, 16	32	Feb. 19	—	—	51·3	54·6	51·2	1·2	2·4	1·2	·351	·366	·351	92	85	92
a Jersey ... ¶§	7, 1, 9	36	9·980	+·019	0·018	58·5	48·2	53·4	+1·3	80	May 26	30	Dec. 22	—	—	51·9	55·9	52·7	2·0	3·7	2·3	·341	·350	·343	87	78	85
p Guernsey (Brooklyn).	9, –, 9	311	9·672	—	0·003	57·3	48·1	52·8	—	76	June 16	33	Feb. 18	53·6	53·8	52·3	—	51·0	2·4	—	1·8	·338	—	·336	84	—	87
a Gibraltar ...	7, 1, 9	53	0·030	—	0·087	70·2	57·2	63·7	—	93	July 24	42	Dec. 31	—	—	59·6	67·6	61·8	2·9	6·7	3·5	·431	·454	·448	83	67	80

* At South Kensington the temperatures are taken in a screen 60 feet above the ground.

‡ Springburn Park. *See also* Table B., p. cxxxix.

† In some cases the extreme values occurred in more than one month.

CLIMATOLOGICAL STATIONS, at 7 a.m., 1 p.m., 9 p.m. or at 7 a.m. and 6 p.m. at TELEGRAPHIC REPORTING during the whole Year 1913.

BRIGHT SUNSHINE.				CLOUD (0-10.)			RAIN AND OTHER FORMS OF PRECIPITATION.				WEATHER. No. of days of										WIND. No. of Observations reduced to a total of 1095 for the year									STATIONS.
				Mean Amount.					Most in a day.												Force (0-12).		Direction.								
Daily Mean.	Difference from Average.	Per cent.	Difference from Average.	I.	II.	III.	Total Fall.	Difference from Average.	Amount.	Date.†	Precipitation.	Precipitation (0·04 in. or more.	Snow.	Snow Lying.	Hail.	Thunder-storm.	Clear Sky.	Overcast.	Fog.	Ground Frost.	Gale.	Forces 4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
Hr.	Hr.	%	%				In.	In.	In.																					
3·39	—	28	—	8·1		6·8	22·2	—	0·79	Oct. 26	127	109	7	1	0	14	19	184	17	55	0	53	54	96	140	50	111	105	271	149	119	Tottenham.
3·59	—	30	—	7·7	—	6·4	23·3	—	0·81	July 14	169	127	9	1	5	10	21	164	50	115	1	88	285	51	145	57	48	93	265	106	45	Hampstead.
3·19	—	26	—	7·3	—	—	22·4	−2·8	0·71	Oct. 26	163	125	4	0	2	10	62	220	26	53	—	—	171	156	144	30	48	126	144	183	93	Camden Sq.
3·18	+0·05	26	0	—	—	—	19·2	−5·2	0·71	Oct. 26	160	120	8	—	6	8	—	—	35	47	—	—	—	—	—	—	—	—	—	—	—	Westminster
3·05	—	25	—	7·5	—	6·5	19·2	—	0·74	Oct. 26	153	113	3	—	3	11	27	171	25	77	1	154	91	78	134	107	71	141	297	117	59	S.Kensingtn
3·63	−0·52	30	− 4	7·4	7·2	5·9	22·4	−1·7	0·82	July 10	168	117	7	0	4	8	18	152	57	93	0	134	149	79	114	88	78	92	238	203	54	Greenwich.
3·49	−0·52	29	− 4	7·6	7·8	6·3	21·9	−2·2	0·92	July 14	172	121	6	0	7	18	11	150	50	80	1	223	180	104	99	88	58	162	231	115	58	Kew.
2·78	—	23	—	8·2	8·0	7·0	53·1	—	1·68	Dec. 3	211	167	**35**	**21**	11	11	7	187	5	—	**22**	482	218	72	137	32	68	147	256	105	60	Eskdale.
—	—	—	—	7·9	—	7·0	58·5	+7·2	1·37	Aug. 21	230	**198**	14	8	13	10	32	**204**	7	—	10	348	111	83	98	48	117	136	209	201	92	Poltalloch.
—	—	—	—	—	—	—	36·2	−2·6	1·11	Dec. 3	210	167	19	—	20	12	—	—	17	57	—	—	—	—	—	—	—	—	—	—	—	Glasgow.
—	—	—	—	7·2	—	6·7	49·4	+1·2	1·14	Jan. 30	233	196	18	19	9	11	37	171	**61**	—	16	292	187	50	25	222	53	117	62	263	116	Rothesay.
—	—	—	—	6·8	—	—	43·4	−6·6	1·20	Jan. 11	208	167	*8*	7	4	6	**51**	165	10	49	*6*	285	48	63	60	129	141	102	123	300	129	Colmonell.
3·22	—	27	—	6·5	—	5·9	33·2	−7·0	1·00	Apl. 29	199	*139*	12	12	*2*	*4*	26	*118*	*2*	73	9	169	0	50	189	31	146	49	346	119	165	Dumfries.
—	—	—	—	—	—	—	45·5	−3·8	1·35	Jan. 15	194	145	14	10	5	6	—	—	6	—	10	180	0	81	136	52	245	47	183	31	320	Cally.
4·11	−0·26	34	− 2	7·5	—	6·4	37·3	−5·0	1·30	Nov. 11	209	163	13	*1*	**27**	**14**	18	158	39	25	17	361	17	67	93	111	155	110	150	246	146	Douglas.
3·68	−0·33	30	− 3	7·2	6·7	6·7	28·9	−4·0	0·94	Sept. 26	206	149	6	6	21	13	19	147	14	69	30	637	39	59	74	119	189	118	133	215	149	Southport.
2·42	—	20	—	5·6	—	5·5	29·8	−5·3	0·85	Aug. 22	201	151	18	0	11	4	18	—	6	26	0	151	5	103	79	109	139	136	164	203	157	Manchester.
2·63	—	22	—	7·2	7·0	6·4	28·1	—	0·82	Aug. 22	197	154	11	0	*1*	5	33	154	11	—	2	287	158	42	100	110	126	197	153	159	50	Whitwth Pk.
2·84	—	24	—	8·5	—	8·1	51·6	—	1·59	Apl. 26	238	**179**	**28**	6	21	12	0	**213**	6	52	6	399	19	25	101	38	110	294	116	288	104	Darwen.
3·29	—	27	—	6·9	—	6·3	47·9	—	1·42	Aug. 21	211	177	7	4	7	6	**59**	161	12	77	12	224	114	156	30	17	175	225	132	76	170	Egremont.
3·59	—	30	—	6·8	—	6·0	36·5	−2·5	1·96	Aug. 21	192	149	13	8	8	5	31	133	2	60	8	197	156	84	68	113	50	146	230	162	86	Aspatria.
3·39	−0·40	28	− 3	7·0	—	6·2	34·4	−1·6	1·20	Dec. 3	213	158	23	**11**	13	6	27	124	18	120	17	276	150	63	50	75	163	199	202	162	31	N'wt'n Rigg.
2·88	−0·82	24	− 7	—	—	—	42·1	−4·7	1·18	Apl. 26	205	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Stonyhurst.
3·76	−0·09	31	− 1	7·9	—	7·5	32·7	−1·1	1·29	Sept. 26	199	155	5	3	17	10	9	173	3	78	8	562	6	58	83	153	204	110	161	195	125	Blackpool.
3·77	—	31	—	6·6	—	6·6	25·9	−3·3	0·77	Aug. 22	205	142	13	0	**24**	**16**	27	137	14	—	4	273	9	57	69	141	214	83	167	256	99	Liverpool.
3·98	+0·03	33	0	7·0	—	7·2	31·8	+1·0	1·45	Sept. 12	198	*139*	2	0	8	*3*	33	181	*1*	—	3	166	43	75	28	190	15	185	126	395	38	Llandudno.
—	—	—	—	7·1	6·8	6·6	34·1	−0·9	1·29	Sept. 13	200	145	2	—	7	8	15	115	**60**	—	**34**	488	20	122	94	102	73	174	252	161	97	Holyhead.
—	—	—	—	—	—	—	—	—	—		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Bettws.
4·14	—	34	—	6·7	—	5·7	39·2	—	1·80	Sept. 12	185	**164**	*1*	0	11	6	52	130	6	46	29	280	403	59	57	28	19	241	201	67	20	Dwyran.
3·32	—	27	—	8·1	—	—	56·0	—	1·75	Apl. 26	226	180	5	1	8	*5*	27	250	24	81	0	237	300	33	57	108	57	75	177	204	84	Llangamch.
3·74	−0·75	31	− 6	6·8	6·1	6·1	41·5	+6·4	1·74	Sept. 12	204	165	2	—	*4*	*5*	13	48	36	—	**43**	543	15	105	124	84	84	152	192	202	137	Pembroke.
—	—	—	—	6·1	6·0	5·4	24·2	—	1·76	Aug. 31	158	*112*	0	—	6	9	*12*	*46*	18	—	**43**	617	13	51	163	104	93	91	216	239	125	Portl'nd Bill
4·02	−0·49	33	− 4	7·6	7·4	6·2	36·5	+0·8	1·18	Jan. 4	199	149	0	0	11	*5*	21	163	17	53	3	250	96	127	89	105	89	120	178	168	123	Plymouth.
4·27	−0·56	35	− 5	6·7	6·7	5·8	45·3	+0·2	1·12	Oct. 10	206	158	0	0	18	14	35	120	*10*	—	0	231	150	142	74	52	59	121	199	165	133	Falmouth.
4·05	—	34	—	—	—	—	42·1	−0·6	1·70	Sept. 4	193	156	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Cardiff.
4·15	−0·46	34	− 4	6·7	—	6·3	38·5	+2·4	1·02	Sept. 5	221	165	0	0	—	11	9	**56**	155	60	—	12	428	40	105	62	78	171	119	186	190	144	Newquay.
3·86	−0·58	32	− 5	6·0	—	5·1	33·0	+1·0	0·85	Jan. 4	203	147	0	0	15	7	48	89	12	—	1	365	93	48	145	155	120	53	176	192	113	Woolac'mbe.
—	—	—	—	8·1	8·0	—	89·9	—	2·78	Apl. 26	245	**213**	**23**	5	30	12	18	**222**	**127**	—	0	408	0	33	172	47	139	64	275	79	286	Princetown.
—	—	—	—	6·6	6·7	6·0	66·4	—	1·71	Jan. 4	239	203	20	**16**	**35**	**24**	46	137	89	—	30	379	133	60	109	122	91	103	189	131	157	Sheepstor.
3·99	—	33	—	6·2	6·2	5·7	32·4	—	1·25	Apl. 26	158	126	2	3	5	14	29	96	20	29	18	407	16	80	79	131	91	138	151	253	156	Teignmouth
—	—	—	—	7·1	6·6	6·9	29·1	−2·9	0·72	Dec. 3	234	169	8	—	19	*1*	3	87	**26**	—	**97**	541	3	109	55	82	91	200	229	173	153	Malin Head.
—	—	—	—	7·9	7·5	7·9	57·0	+8·1	1·64	Nov. 23	261	**226**	0	—	33	*1*	*2*	176	21	—	52	449	27	101	88	26	94	159	230	233	137	Blacksod Pt.
3·28	−0·15	27	− 1	7·7	—	6·7	45·7	+3·7	1·40	Jan. 9	223	199	**21**	*1*	**39**	**10**	24	163	12	91	12	51	468	66	28	16	134	141	113	27	102	Markree Cas.
—	—	—	—	6·6	6·2	6·2	30·9	−0·9	1·11	June 24	213	162	7	—	11	4	5	77	**26**	—	6	244	1	127	57	58	123	202	235	164	128	Donaghadee.
3·28	−0·24	27	− 2	7·9	—	6·8	35·1	+3·2	1·86	June 18	201	*161*	10	8	*5*	3	27	**199**	6	57	0	126	397	23	41	31	90	177	247	65	24	Armagh.
—	—	—	—	—	—	—	37·7	+4·1	1·20	Sept. 13	228	167	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	Belfast.
—	—	—	—	5·9	—	5·3	41·4	—	1·31	Dec. 3	217	174	17	10	17	13	**38**	*76*	*4*	—	18	222	85	86	62	56	158	159	180	140	169	Newtown-forbes.
3·35	—	28	—	7·3	—	5·6	27·8	—	1·60	Sept. 9	163	124	6	0	4	0	42	134	31	70	1	57	241	7	44	118	110	46	113	297	119	Dublin T. C.
3·56	−0·62	29	− 6	7·2	—	5·6	28·5	0·0	1·42	Oct. 5	188	130	7	3	*3*	1	31	126	*1*	83	0	151	240	30	70	84	84	78	200	238	71	Phœnix Pk.
—	—	—	—	6·3	—	5·3	28·8	+0·8	1·65	Sept. 19	190	*122*	**12**	**6**	20	3	**48**	98	14	15	19	240	50	82	107	88	98	115	176	262	117	Dublin (City).
3·31	−0·38	27	− 4	7·3	7·0	7·3	35·4	+2·4	0·99	Jan. 9	223	154	10	—	8	6	*1*	*62*	27	103	1	195	15	98	63	51	142	178	223	178	147	Birr Castle.
3·68	−0·30	31	− 2	7·4	7·2	7·1	63·1	+6·7	1·28	Oct. 4	260	**205**	6	0	**37**	**13**	18	**165**	5	—	2	457	125	80	78	59	85	219	176	154	119	Valencia.
—	—	—	—	6·8	7·2	6·5	45·7	−0·2	1·83	Sept. 15	270	166	*4*	—	9	5	24	140	**32**	—	25	364	9	172	85	60	70	204	209	147	139	Roche's Pt.
3·38	—	28	—	7·5	7·4	5·9	39·8	—	1·32	Sept. 24	200	170	9	2	15	6	20	151	22	90	**33**	358	160	72	93	26	95	210	169	153	117	Limerick.
4·00	−0·95	33	− 8	6·8	6·7	6·6	34·8	+1·2	1·47	Aug. 11	216	**149**	0	—	*10*	*2*	*3*	*59*	36	—	**47**	579	28	91	107	109	100	129	125	205	201	Scilly.
4·66	−0·61	39	− 5	7·2	6·7	6·0	26·5	−7·7	1·02	Nov. 6	180	*126*	**5**	—	12	11	13	**114**	*12*	—	*7*	446	0	51	109	141	121	106	189	286	92	Jersey.
4·64	−0·57	38	− 5	7·0	—	5·5	36·1	−1·4	2·19	July 29	212	141	3	0	**22**	**14**	**37**	104	**70**	12	30	394	78	31	156	60	106	108	175	255	126	Guernsey.
—	—	—	—	4·8	4·8	3·4	26·1	—	2·62	Dec. 23	89	68	0	0	0	9	103	42	0	0	3	311	45	1	0	383	69	6	65	333	193	Gibraltar.

an[illegible]nthly issues must be consulted for a complete list of dates.

TABLE B.—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, included in the WHOLE YEAR 1913.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Date.†	Min.	Date.†	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day Amt.	Most in a day Date.†	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
	Ft.	°	°	°	°	°				°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
0. SCOTLAND, N.																									
a Baltasound ... S	31	49·5	41·5	45·5	—	62	Aug. 28	23	Mar. 19	46·1	—	36·7	—	1·29	Oct. 13	275	27	29	16	34	—	2·73	—	23	—
a Fortrose	69	52·4	41·8	47·1	—	71	May 30,31	22	Dec. 6, 7	—	—	18·2	—	0·67	June 18	151	9	0	2	6	—	3·47	—	29	—
1. SCOTLAND, E.																									
a Crathes ... ... S §	140	54·1	39·8	47·0	—	79	Aug 2, 3	13	Dec. 31	46·8	46·7	33·2	—	2·76	May 9	175	24	8	7	11	112	3·26	—	27	—
p Stonehaven	86	53·7	41·2	47·5	—	77	Aug. 3	22	Dec. 31	—	—	23·9	—	1·47	Mar. 22	173	—	—	—	—	—	3·60	—	30	—
p Balruddery ... S §	276	54·6	39·4	47·0	—	80	Aug. 3	20	Dec. 31	—	—	25·1	—	0·97	May 9	147	3	0	1	1	—	—	—	—	—
a Carnoustie	39	53·0	41·6	47·3	—	82	Aug. 3	22	Dec. 6	—	—	24·6	—	1·21	May 8	184	1	0	0	3	—	3·61	—	30	—
a St. Andrews	20	54·0	41·4	47·7	—	79	Aug. 2	20	Jan. 14	47·4	47·5	25·7	—	1·26	Dec. 3	141	4	0	4	0	97	3·55	—	29	—
2. ENGLAND, N.E.																									
a Alnwick Castle ... ¶	210	54·1	41·4	47·8	+ 1·2	78	Aug. 3	16	Dec. 31	—	—	26·7	− 4·9	1·62	May 6	183	13	2	7	0	—	—	—	—	—
a Bellingham	848	52·5	39·1	45·8	—	81	Aug. 3	15	Dec. 31	—	—	30·4	—	1·26	Oct. 7	209	20	7	3	27	—	—	—	—	—
a Tynemouth	90	53·6	42·7	48·2	—	76	Aug. 2, 3	23	Dec. 31	48·0	48·3	24·2	—	1·27	Sept. 26	168	19	5	12	22	53	3·03	—	25	—
a Chopwellwood	445	53·9	40·1	47·0	—	80	Aug. 4	18	Dec. 6	—	—	25·7	—	1·26	Jan. 11	191	12	2	5	12	140	3·02	—	25	—
a Ushaw	599	53·5	40·8	47·2	—	78	Aug. 3	21	Jan. 14	—	—	27·6	—	1·62	Oct. 7	183	23	11	9	24	—	—	—	—	—
a Ampleforth	349	54·1	41·6	47·8	—	?81	Aug. 3	20	Jan. 14	—	—	21·3	—	0·85	Jan. 11	179	15	4	12	41	—	—	—	—	—
a West Witton	605	53·4	40·9	47·2	—	82	Aug. 3	16	Dec. 31	47·8	46·8	35·4	—	1·16	Apr. 26	199	32	15	7	51	75	—	—	—	—
a Fulbeck ... ... ¶	180	56·0	41·7	48·9	+ 0·9	80	June 17	18	Jan. 14	—	—	21·2	− 2·4	2·21	Oct. 5	172	4	1	7	0	124	—	—	—	—
a Rauceby ... ... §	124	56·4	41·4	48·9	—	80	May 30	13	Jan. 14	50·3	50·0	23·3	− 2·3	2·57	Oct. 5	159	—	—	—	—	—	3·54	—	29	—
3. ENGLAND, E.																									
a Norwich	98	56·6	42·8	49·7	—	83	June 17	24	Jan. 13, 14	49·9	—	24·4	—	1·19	July 14	183	12	6	24	12	85	3·93	—	33	—
a Peterborough (Eye) ...	16	57·1	41·9	49·5	—	81	June 17	18	Jan. 14	—	—	19·5	—	1·10	June 17	186	12	7	21	26	—	—	—	—	—
a Ridgewell	269	56·2	42·1	49·2	—	81	June 17	25	Mar. 12	—	—	19·1	—	0·79	Jan. 11	177	10	9	28	20	—	—	—	—	—
a Ipswich (Copdock) ...	164	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Felixstowe	10	55·8	45·3	50·6	+ 1·4	78	Aug. 21	28	Jan. 13	—	—	22·2	—	1·19	May 27	177	3	1	8	21	—	4·63	—	38	—
a Walton-on-Naze	69	55·4	45·2	50·3	—	75	Aug. 30	28	Jan. 13, 14	—	—	19·9	—	0·85?	Jan. 11	162	—	—	—	83	4·19	—	35	—	
a Halstead	139	57·9	42·3	50·1	—	84	June 17	25	Jan. 13, 27	—	—	21·1	—	1·00	Jan. 11	157	11	4	10	0	—	—	—	—	—
a Chelmsford	134	58·0	41·5	49·8	—	85	June 17	24	Jan. 13	—	—	21·3	—	1·00	June 20	155	5	4	6	11	—	—	—	—	—
p Hemel Hempstead ...	535	55·8	41·4	48·6	—	80	June 16	24	Feb. 23	—	—	25·8	—	0·71	May 3	209	—	—	—	—	123	—	—	—	—
a Rothamsted ... ¶§	424	57·0	42·0	49·5	+ 1·5	80	June 16	23	Jan. 13, 14	—	—	22·0	− 5·9	0·65	May 3	204	0	2	10	3	—	3·66	−0·53	30	− 5
a Shoeburyness	13	56·7	45·0	50·9	+ 0·9	80	June 17	27	Jan. 13	—	—	19·8	+ 0·2	1·00	Oct. 26	157	1	2	1	29	—	—	—	—	—
a Southend	90	57·4	45·7	51·6	—	80	May 27	29	Feb. 14	52·5	—	18·9	− 2·4	1·15	Oct. 26	148	4	1	7	2	90	4·11	—	34	—
4. MIDLAND COUNTIES.																									
a Harrogate ... ... ¶§	476	53·4	41·2	47·3	+ 0·6	79	Aug. 3	13	Jan. 14	47·5	48·1	26·7	− 2·7	1·37	Jan. 11	192	15	1	6	2	80	3·01	—	25	—
a Bradford	439	53·9	42·5	48·2	—	79	Aug. 3	18	Dec. 31	47·6	48·7	30·3	—	0·83	Dec. 26	183	3	3	0	18	68	2·92	—	24	—
a Meltham	513	54·3	41·8	48·1	—	77	May 30	16	Dec. 31	47·6	—	42·9	—	1·54	Apr. 15	220	—	—	—	—	87	—	—	—	—
a Cheadle ... ... ¶	646	54·4	41·7	48·1	+ 1·3	76	June 16	22	Jan. 12	—	—	31·2	− 1·6	1·12	Oct. 3	161	—	—	—	—	102	—	—	—	—
a Wellington	207	57·1	40·3	48·7	—	80	May 26	20	Jan. 13	—	—	24·4	—	1·23	Oct. 5	161	10	1	7	16	—	—	—	—	—
a Bawtry ... ... ¶	65	56·5	42·0	49·3	+ 1·2	82	Aug. 3	16	Dec. 31	—	—	21·4	− 2·4	2·09	Sept. 17	161	5	0	1	0	—	—	—	—	—
a Matlock	636	55·2	41·4	48·3	—	81	Aug. 3	18	Jan. 14	—	—	31·5	—	1·51	Jan. 11	191	14	1	12	32	—	2·90	—	24	—
a Belper	222	56·3	41·1	48·7	—	83	Aug. 3	15	Jan. 13	—	—	27·7	—	1·44	Jan. 11	173	9	0	2	4	—	—	—	—	—
a Belper (Quarry Bank) ...	280	55·1	41·9	48·5	—	78	June 16	18	Jan. 13	—	—	28·6	− 3·7	1·31	Jan. 11	175	10	1	6	18	—	—	—	—	—
a Mayfield (Staffs)	374	55·1	40·0	47·6	—	80	Aug. 3	8	Jan. 14	—	—	29·6	—	1·28	Jan. 11	191	21	14	15	27	89	3·15	—	26	—
a Strelley	377	55·6	42·0	48·8	+ 1·3	79	Aug. 22	16	Jan. 13	49·2	—	24·3	− 3·3	1·23	Oct. 5	180	10	4	15	25	—	2·86	−0·59	24	− 3
a Kingston-on-Soar... ...	125	56·5	41·2	48·9	—	81	Aug. 3	16	Jan. 13, 14	49·9	—	22·0	—	1·41	Oct. 5	152	5	0	2	24	—	—	—	—	—
a Sparkhill	424	57·2	41·2	49·2	—	82	June 16	20	Jan. 14	—	—	29·3	—	1·03	Jan. 11	188	13	12	16	12	99	—	—	—	—
p Rugby	379	57·1	40·7	48·9	+ 1·0	83	Aug. 3	16	Jan. 13	—	—	23·9	—	1·04	Jan. 11	164	7	3	5	4	95	—	—	—	—
a Raunds ... ... ¶	203	57·9	41·4	49·7	+ 1·7	83	June 16	20	Jan. 13	50·2	50·7	19·5	—	1·10	Jan. 11	152	10	4	11	17	92	3·54	—	29	—
a Malvern	516	55·8	43·9	49·9	—	80	June 29	26	Mar. 18	—	—	34·2	—	1·21	Jan. 4	181	—	—	—	—	—	3·67	—	30	—
a Ross...	213	57·9	43·0	50·5	—	83	June 29	22	Dec. 31	—	—	30·6	—	0·95	Jan. 4	184	5	1	3	22	—	—	—	—	—
a Hereford ... ... ¶	291	56·9	42·1	49·5	+ 0·8	80	May 26	20	Dec. 31	—	—	29·8	+ 2·8	0·95	Jan. 4	179	2	2	4	3	74	—	—	—	—
a Leamington Spa	165	56·8	42·7	49·8	—	80	Aug. 3, 28	21	Dec. 31	52·1	53·4	25·7	—	0·93	Apr. 29	168	6	1	4	6	104	3·18	—	26	—
a Cirencester... ... ¶§	446	56·5	41·5	49·0	+ 1·4	80	June 16	20	Dec. 31	50·0	50·3	30·5	− 0·2	1·35	Jan. 11	184	—	—	—	—	55	3·62	−0·50	30	− 4
a High Wycombe	249	—	—	—	—	—	→	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
5. ENGLAND, S.E.																									
a Malmesbury	235	57·2	42·1	49·7	—	81	June16,29	24	Jan. 13, 16	—	—	29·7	—	1·39	Sept. 4	174	3	0	3	6	74	—	—	—	—
a Wokingham	216	57·6	39·1	48·4	—	83	June 16	19	Jan. 13	—	—	22·0	—	0·89	Oct. 11	150	4	1	6	23	—	—	—	—	—
a Marlborough ... ¶§	424	56·6	41·2	48·9	+ 1·1	82	July 28	21	Dec. 31	—	41·2	30·7	− 1·2	1·35	Sept. 4	165	1	0	2	3	90	3·30	−0·51	27	− 5
a Bucklebury	409	56·5	42·5	49·5	—	81	June 16	25	Jan. 13	—	—	27·8	—	1·05	Apr. 29	166	4	1	5	12	121	—	—	—	—
a New Malden	39	58·4	43·3	50·8	—	85	June 16	24	Jan. 13, 14	51·1	51·1	23·8	—	1·29	Oct. 2	149	5	5	17	23	95	3·29	—	27	—
a Croydon (Addington) ...	472	56·1	44·0	50·1	—	81	June 16	27	Dec. 29	—	—	25·5	—	1·06	Aug. 31	181	6	1	11	40	—	—	—	—	—
a Wallington	140	57·5	43·7	50·6	—	82	June16,17	26	Jan. 13	51·2	51·8	27·2	—	2·03	July 14	197	8	5	19	34	48	—	—	—	—
a Woking	179	58·5	42·5	50·5	—	84	June 16	25	Jan. 13	51·0	—	24·2	—	0·75	Aug. 31	163	—	—	—	—	58	—	—	—	—
a Margate ... ... ¶§	35	56·7	46·3	51·5	+ 1·6	83	June 17	29	Jan. 13	51·6	51·6	20·3	− 2·9	0·93	Sept. 16	143	4	4	12	3	14	3·81	−0·40	32	− 3
a Aldershot	231	56·5	42·3	49·4	—	82	June 16	23	Dec. 22	—	—	28·4	—	1·07	Sept. 1	198	7	5	11	37	—	—	—	—	—
a Wisley ... ... ¶§	150	57·7	43·2	50·5	+ 0·9	84	June 16	25	Feb. 23	51·0	51·1	22·8	—	1·02	Sept. 1	153	4	2	10	21	105	3·82	—	32	—
a Basingstoke	289	56·7	42·8	49·8	—	82	June 16	23	Feb. 23	50·4	50·4	29·6	—	0·87	Apr. 29	160	10	6	13	25	45	—	—	—	—
a Sevenoaks	509	56·2	43·3	49·8	—	83	June 16	27	Jan. 13, 14	50·3	50·4	29·3	—	1·12	July 10	190	7	3	12	8	65	—	—	—	—
a Tunbridge Wells ... ¶§	418	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Matfield	319	57·0	43·0	50·0	—	84	Aug. 28	24	Feb. 23	—	—	29·0	—	1·18	Nov. 12	175	11	8	20	9	83	—	—	—	—
a Ramsgate	168	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·30	—	36	—
a Folkestone...	121	56·1	46·8	51·5	—	76	May 26	29	Dec. 29	—	51·0	31·3	+ 3·3	1·72	Aug. 31	170	5	1	15	6	—	4·29	—	36	—
a Bexhill	27	56·6	47·2	51·9	—	79	June 29	29	Dec. 29	53·9	—	27·7	—	1·36	Aug. 31	179	4	3	9	10	31	4·38	—	36	—
a Worthing ... ... §	36	57·5	45·9	51·7	+ 2·1	79	June 29	26	Jan. 13	52·6	52·9	35·2	+ 8·2	1·69	Sept. 4	170	0	4	12	1	41	4·38	—	36	—
a Bognor	20	56·6	46·2	51·4	—	79	June 29	29	Jan. 13	—	52·5	31·2	—	1·34	Aug. 31	173	3	7	13	4	—	4·44	—	37	—
a Selsey Bill	21	57·2	45·9	51·6	—	78	June 29	28	Jan. 13	—	—	32·6	—	1·88	Aug. 31	175	1	3	9	16	36	4·33	—	36	—
a Totland Bay	140	56·7	46·7	51·7	+ 1·9	78	June 16	29	Apr. 13	—	—	31·3	+ 3·2	1·23	Sept. 4	172	1	9	17	15	32	4·37	—	36	—
a Sandown	20	58·6	47·2	52·9	—	78	May 27	29	Dec. 31	—	—	32·1	—	1·01	Aug. 31	193	—	—	—	—	—	4·37	—	36	—
p Bournemouth	145	57·9	44·9	51·4	—	80	June 29	26	Dec. 31	51·6	52·1	33·2	—	0·98	Jan. 11	174	—	—	—	—	—	4·32	—	36	—

NOTE.—The Sunshine recorder at Malvern is 900 ft. above M.S.L.

† In some cases the extreme values occurred in more than one month,

TABLE B (*cont.*).—SUMMARY of the OBSERVATIONS of TEMPERATURE, RAINFALL, and BRIGHT SUNSHINE at additional STATIONS, included in the WHOLE YEAR 1913.

DISTRICTS AND STATIONS	Height of Gauge above M.S.L.	AIR TEMPERATURE. Means of A Max.	Means of B Min.	Mean of A and B.	Difference of Mean from Average.	Absolute Maximum and Minimum. Max.	Date.†	Min.	Date.†	Earth Temperature. 1 ft.	4 ft.	RAIN AND OTHER FORMS OF PRECIPITATION. Total Fall.	Difference from Average.	Most in a day. Amt.	Date.†	WEATHER. No. of days. Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	BRIGHT SUNSHINE. Daily Mean.	Difference from Average.	Per Cent.	Difference from Average.
LONDON.	Ft.	°	°	°	°	°		°		°	°	Ins.	Ins.	Ins.								Hrs.	Hrs.	%	%
a Enfield	203	57·8	42·7	50·3	—	83	June 17	23	Feb. 23	—	50·7	22·8	—	0·76	Oct. 26	175	11	5	11	30	72	3·48	—	29	—
a Golder's Green	279	57·1	43·6	50·4	—	83	June 17	26	Feb. 23	—	—	22·3	—	0·75	Nov. 21	166	7	4	7	22	—	—	—	—	—
p Hampstead (Redington Rd.)	375	57·0	43·7	50·4	—	84	June 17	26	Jan. 13	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
6. SCOTLAND, W.																									
p Oban	20	53·7	42·7	48·2	—	72	July 23	23	Dec. 31	—	—	51·0	—	1·17	Oct. 13	225	18	11	10	1	35	2·94	—	24	—
a Ardnadam	64	—	—	—	—	—	—	—	—	—	—	81·0	—	2·40	Oct. 13	228	—	—	—	—	—	—	—	—	—
a Thorntonhall (Lanarkshire)	440	52·8	39·6	46·2	—	75	July 29	17	Jan. 14	—	—	39·0	—	1·32	Dec. 3	199	19	4	7	18	74	3·00	—	25	—
a Kilmarnock ¶	90	54·3	41·2	47·8	+ 0·3	76	June 16	20	Dec. 30, 31	—	—	33·6	—	1·28	Dec. 3	207	11	7	4	6	—	3·23	—	27	—
p Ruthwell §	67	55·6	41·1	48·4	—	82	July 27	17	Dec. 31	—	—	34·7	—	1·05	Oct. 29	167	8	3	13	0	—	3·20	—	26	—
p Glasgow Obs.	180	53·3	43·2	48·3	+ 1·2	74	July 3, 23	23	Jan. 14	—	—	34·6	−4·1	0·96	Dec. 3	204	13	11	8	2	58	2·51	−0·48	21	− 4
7. ENGLAND, N.W.																									
a Scaleby	111	55·4	41·3	48·4	—	79	Aug. 3, 28	17	Dec. 31	—	—	30·7	—	0·78	Aug. 21	222	10	5	11	15	—	—	—	—	—
a Seathwaite	422	54·6	41·8	48·2	—	80	Aug. 3	19	Dec. 31	—	—	124·5	—	4·32	Aug. 21	222	19	20	8	2	—	—	—	—	—
a Carnforth	174	54·8	42·3	48·6	—	77	Aug. 3, 29	21	Dec. 31	—	—	36·3	—	1·38	Sept. 26	198	10	19	8	14	62	3·28	—	27	—
a Lancaster	311	55·0	43·8	49·4	—	78	Aug. 29	25	Dec. 31	50·4	52·6	39·3	—	1·61	Sept. 26	211	7	8	7	2	114	2·98	—	25	—
a Hutton	82	55·1	42·0	48·6	—	77	June 16	18	Dec. 31	49·4	49·3	34·1	—	1·33	July 6	201	6	10	9	8	75	3·37	—	28	—
a Burnley	459	53·7	41·7	47·7	—	75	May 30	15	Dec. 31	47·8	48·1	39·5	—	1·17	Apr. 15	194	—	—	—	—	67	2·89	—	24	—
a Leyland	124	55·2	42·4	48·8	—	76	June 16	19	Dec. 31	—	—	35·4	—	1·25	July 6	203	11	21	10	10	67	3·11	—	26	—
a Bolton	341	54·9	43·3	49·1	—	78	Aug. 3	25	Dec. 31	48·4	48·6	39·5	—	1·03	Apr. 26	224	14	6	8	5	65	2·27	—	19	—
a Blundellsands	34	55·2	44·7	50·0	—	76	June 16	22	Dec. 31	—	—	29·0	—	1·44	July 6	209	4	15	13	11	34	—	—	—	—
a Hoylake §	30	56·4	44·1	50·3	—	78	June 16	24	Dec. 31	—	—	27·6	—	0·75	July 6	184	2	2	7	4	42	3·76	—	31	—
a Rhyl	30	55·9	44·2	50·1	—	78	June 16	21	Dec. 31	—	—	25·5	−0·5	1·18	Sept. 12	195	—	—	—	—	34	4·15	—	34	—
a Colwyn Bay	81	56·1	45·7	50·9	—	77	Aug. 29	24	Dec. 31	—	—	30·1	—	1·50	Sept. 12	162	0	1	1	2	—	3·96	—	33	—
a Llanberis (Pen-y-Gwryd)	913	52·6	41·3	47·0	—	74	June 16	19	Dec. 31	—	—	145·7	—	4·42	June 9	230	10	14	3	33	—	—	—	—	—
a Macclesfield	500	55·0	42·2	48·6	—	79	June 17	17	Dec. 31	—	—	31·0	—	1·23	Aug. 22	202	14	5	8	7	—	—	—	—	—
a Northwich	117	57·0	42·7	49·9	—	81	June 16	20	Dec. 31	—	—	27·4	—	0·99	Aug. 22	209	13	18	9	44	—	—	—	—	—
a Hawarden Bridge ¶	22	56·6	44·1	50·5	+ 1·0	79	Sept. 27	24	Jan. 14, 26	—	—	27·2	+2·6	1·69	July 6	187	—	—	—	—	—	—	—	—	—
a Ruthin	449	54·7	43·5	49·1	—	75	June 16	22	Dec. 31	—	—	29·9	—	1·00	Mar. 22	190	12	13	7	0	—	—	—	—	—
a Welshpool	255	57·3	41·9	49·6	—	82	July 29	14	Dec. 31	—	—	34·2	—	1·73	Oct. 5	216	9	9	5	23	—	—	—	—	—
p Aberdovey §	22	56·3	46·9	51·6	—	79	June 16	26	Dec. 31	—	—	43·0	—	1·56	Aug. 22	221	4	11	9	3	—	3·98	—	33	—
8. ENGLAND, S.W.																									
a Aberystwyth §	59	55·4	46·7	51·1	—	78	Aug. 28	24	Dec. 31	—	—	41·9	—	1·40	June 9	210	3	18	5	2	—	3·88	—	32	—
a Gwernyfed	374	56·4	40·0	48·2	—	80	July 28	13	Dec. 31	—	—	32·6	—	0·95	Sept. 4	215	4	0	15	39	—	—	—	—	—
a Haverfordwest	93	55·8	44·5	50·2	—	79	Aug. 3	20	Feb. 13	—	—	51·0	—	2·03	Sept. 12	221	2	18	10	33	—	4·25	—	35	—
a Tenby	64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	4·16	−0·45	34	− 4
a Swansea	24	57·7	46·0	51·9	—	78	July 28	25	Mar. 25	53·5	54·0	50·8	—	1·33	Mar. 22	208	1	5	1	10	81	3·75	—	31	—
a Clifton ¶	229	57·6	45·5	51·6	+ 1·7	83	June 16	27	Dec. 31	—	—	31·0	−3·6	1·20	Sept. 4	190	3	1	0	4	41	3·99	—	33	—
a Weston-Super-Mare	29	57·3	45·3	51·3	—	82	June 16	25	Dec. 31	—	—	28·1	—	1·29	Jan. 4	162	2	9	6	11	72	3·58	—	30	—
a Minehead	104	57·6	45·1	51·4	—	78	May 28	29	Feb. 22	—	—	35·3	—	1·15	Apr. 15	172	0	1	4	10	50	3·51	—	29	—
a Ilfracombe	24	56·5	47·8	52·2	—	75	June 16	28	Feb. 19, 20	53·1	53·8	40·5	—	1·18	Apr. 15	218	1	8	4	21	9	3·93	—	33	—
a Bude	49	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Arlington ¶	613	55·1	43·0	49·1	+ 0·7	76	May 26	25	Feb. 14	—	—	50·7	−2·3	1·67	Apr. 15	195	1	3	0	0	—	—	—	—	—
a Cullompton ¶§	202	58·4	42·8	50·6	+ 1·1	82	June 29	24	Dec. 31	52·6	—	37·4	+1·7	1·40	Apr. 26	232	6	3	6	29	82	3·56	−5·1	30	− 4
a Rousdon	515	55·6	44·1	49·9	+ 1·4	76	June 29	24	Dec. 31	52·4	52·7	31·4	−1·6	1·12	Sept. 5	183	8	9	5	59	48	4·09	—	34	—
a Sidmouth	147	57·3	45·4	51·4	—	77	June 29	27	Dec. 31	—	—	35·9	—	1·34	Jan. 4	186	1	5	8	11	73	—	—	—	—
a Exmouth	11	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Killerton	160	58·7	41·9	50·3	—	83	July 28	22	Jan. 17	—	—	31·2	—	1·10	Jan. 4	161	5	6	8	13	82	—	—	—	—
a Shaftesbury ¶	722	55·2	42·9	49·1	+ 1·2	78	June 16	25	Feb. 19	50·5	51·2	28·4	−5·1	1·19	Sept. 4	180	—	—	—	—	—	—	—	—	—
a Dorchester	314	56·6	43·9	50·3	—	80	June 16	26	Jan. 13	—	—	35·8	—	2·00	Oct. 6	178	2	4	5	22	—	4·12	—	34	—
a Weymouth	21	58·3	46·8	52·6	—	79	Aug. 1	28	Dec. 31	—	—	26·1	—	1·10	Sept. 5	161	3	6	10	1	—	4·34	—	36	—
a Torquay	12	58·1	47·3	52·7	—	79	June 29	30	Feb. 14	—	—	33·2	—	1·39	Apr. 26	176	1	8	6	2	28	4·18	−0·55	35	− 4
p Paignton	11	57·9	45·2	51·6	—	80	June 29	22	Jan. 13	—	—	35·7	—	1·09	Jan. 4	185	1	7	6	19	49	4·02	—	33	—
a Salcombe	39	57·4	46·6	52·0	—	76	July 23	27	Feb. 14	—	—	35·4	—	1·24	Jan. 4	183	0	3	5	22	—	4·32	—	36	—
a Tavistock	374	56·7	44·2	50·5	—	78	Aug. 1, 3	25	Jan. 14	—	—	49·2	—	2·10	Jan. 4	224	10	33	26	26	86	—	—	—	—
a Ashburton	583	57·3	45·2	51·3	—	79	June 29	28	Feb. 20, 21	—	—	57·1	+4·3	2·14	Apr. 26	207	—	—	—	—	—	—	—	—	—
a Fowey	51	58·3	46·6	52·5	—	76	June 16	24	Dec. 31	—	—	34·9	—	1·16	Sept. 3	189	2	3	8	20	—	4·28	—	35	—
a Redruth	397	55·4	45·8	50·6	—	74	Aug. 1	27	Feb. 20, 21	—	—	50·1	—	1·36	Ja . 10	228	4	29	11	33	—	—	—	—	—
a Penzance	54	57·8	48·6	53·2	—	76	Aug. 1, 26	30	Feb. 20, 21	—	—	39·7	—	1·25	Aug. 11	230	1	11	3	34	—	4·04	—	33	—
9. IRELAND, N.																									
p Dunfanaghy	54	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
a Lisburn	206	56·9	40·7	48·8	—	83	Aug. 2	18	Dec. 31	—	—	41·7	—	2·14	Sept 13	192	7	4	3	5	—	—	—	—	—
10. IRELAND, S.																									
p Dublin (Glasnevin)	67	56·3	42·7	49·5	+ 1·0	78	Aug. 14	21	Jan. 13	—	—	29·1	+0·2	1·65	Sept. 19	184	12	17	5	9	134	—	—	—	—
a Kingstown	42	55·9	45·5	50·7	—	76	Aug. 15	27	Mar. 18	—	—	28·9	—	1·65	Jan. 10	155	—	—	—	—	—	3·74	—	31	—
p Clongowes Wood Col.	245	55·5	40·8	48·2	—	77	Aug. 14	14	Jan. 13, 14	—	—	27·4	—	0·83	Apr. 29	219	7	3	5	29	—	3·99	—	33	—
a Mountmellick	252	55·4	41·9	48·7	—	79	July 27	20	Dec. 31	—	—	41·4	—	1·05	Sept 19	218	—	—	—	—	—	—	—	—	—
p Newcastle, Co. Wicklow	256	54·6	43·6	49·1	—	75	Aug. 14	26	Jan. 13	—	—	38·7	—	1·49	Jan. 10	170	4	0	3	1	—	—	—	—	—
a Kilkenny ¶	212	56·1	42·5	49·3	+ 0·2	78	July 27	19	Dec. 31	—	—	35·1	+1·8	0·98	Jan. 9	234	11	5	2	5	6	—	—	—	—
a Cahir ¶	199	56·4	42·5	49·5	+ 0·3	79	July 1, 27	20	Dec. 31	—	—	42·6	—	1·50	Jan. 9	227	12	8	4	34	—	—	—	—	—
a Wexford	116	55·9	45·1	50·5	—	80	Aug. 14	27	Jan. 14	—	—	36·3	—	0·91	Nov. 9	174	1	11	2	14	—	—	—	—	—
a Waterford ¶	38	56·6	44·0	50·3	+ 1·0	78	July 27	24	Dec. 31	—	—	41·6	+1·2	1·11	Jan. 27	173	6	15	6	16	—	—	—	—	—
p Waterford Trg. Coll.	15	56·8	44·1	50·5	—	80	Aug. 15	23	Dec. 31	—	—	40·6	—	1·13	Jan. 27	174	3	13	3	6	—	—	—	—	—
a Foynes ¶	108	55·4	43·5	49·5	+ 0·1	75	July 28	21	Dec. 31	—	—	44·3	+5·4	1·03	Dec. 3	246	7	4	7	10	—	—	—	—	—
a Killarney ¶	174	57·9	44·4	51·2	+ 1·0	79	July 1, 27	23	Dec. 31	—	—	57·5	+2·1	2·12	Oct. 4	243	—	—	—	—	—	—	—	—	—
a Ballinacurra §	24	56·3	43·8	50·1	—	79	Aug. 14	23	Dec. 31	—	—	43·5	—	1·28	Jan, 9	195	10	8	7	18	—	3·76	—	31	—
11. ENGLISH CHANNEL.																									
p Guernsey (Villa Carey) ¶§	180	57·9	48·1	53·0	+ 1·2	79	June 16	32	Feb. 18	—	—	34·8	−2·7	1·80	July 29	198	0	6	4	0	—	4·68	−0·46	39	− 4

and the monthly issues must be consulted for a complete list of dates.

TABLE I.—COLDEST DAY and WARMEST NIGHT in the YEAR.

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	Coldest Day. Lowest Maximum and Date.		Warmest Night. Highest Minimum and Date.	
	Ft.		°F.		°F.
0. SCOTLAND, N.					
a Baltasound ... S	31	Feb. 21, 28, Apr. 10	34	Aug. 28	54
a Fortrose	69	Dec. 30	32	Aug. 3, 27	56
a Castlebay	37	Mar. 17, Dec. 29	38	Aug. 3, 21	56
p Deerness	160	Mar. 17	35	Sept. 25	55
a Lerwick	54	Mar. 17, Apr. 10	33	Aug. 3, 22, Sept. 25	54
a Stornoway	51	Dec. 5	33	Aug. 3, 16	56
a Wick	81	Dec. 5	31	Sept. 25	54
p Strathpeffer ...	200	Jan. 26, Dec. 30	35	July 2, 31	56
a Glencarron ... S	500	Dec. 30	30	Oct. 13	56
p Ft. Augustus S	68	Dec. 6, 31	32	July 31, Oct. 13	58
p Ft. William ... S	175	Dec. 6	30	Sept. 23	57
p Kingussie ... S S	822	Dec. 6	19	July 31	56
p Dunrobin ... S	12	Dec. 6	32	Jl. 14, Au. 26, S. 25	55
1. SCOTLAND, E.					
a Nairn	82	Dec. 6, 30	32	Aug. 3	59
p Gordon Castle S	101	Dec. 6	32	Aug. 16	57
Aberdeen	46	Dec. 6	29	July 2	57
a Balmoral ... S	930	Dec. 6, 30	30	Sept. 12	55
p Braemar ... S	1113	Dec. 6	23	July 2	56
p Dundee ... S S	160	Dec. 31	31	Aug. 3	58
p Crieff ... ... S	440	Dec. 6	27	Aug. 27	57
a Leith	18	Dec. 6	33	Aug. 3	59
p West Linton S	800	Jan. 22, Dec. 30	31	Aug. 16	58
p Marchmont ... S	498	Dec. 31	31	Aug. 16	57
a Crathes ... S	140	Dec. 6	27	Jl. 14, Au. 16, S. 27	57
p Stonehaven	86	Dec. 31	33	July 20	58
p Balruddery ... S	276	Dec. 6	33	June 22	56
a Carnoustie	39	Dec. 6	33	July 13, Aug. 16	56
a St. Andrews ...	20	Dec. 6	33	July 14, Aug. 3, 26	57
2. ENGLAND, N.E.					
p Whitby	88	Jan. 12	35	Aug. 22, Sept. 27	58
p Cockle Park ...	324	Dec. 31	31	Aug. 3, 22	56
a Shields	96	Dec. 7	35	July 18	57
p Durham	336	Dec. 6	31	Au. 30, S. 24, 27	56
p Rounton	249	Dec. 6	28	Sept. 27	58
p Scarborough ...	100	Jan. 13, Dec. 31	36	Aug. 22	60
p York	56	Dec. 31	31	Jl. 13, 18, Au. 22, 30	58
x Spurn Head ...	26	Dec. 31	36	July 14, 18	57
a Lincoln	58	Dec. 30, 31	33	Aug. 22	62
a Skegness	12	Jan. 12	34	Aug. 22	60
p Hull	12	Dec. 6	34	Aug. 22	60
a Alnwick Castle ...	210	Dec. 6	31	Aug. 22	58
a Bellingham	848	Jan. 12, 13, Dec. 31	32	Aug. 3, 30	56
a Tynemouth	90	Dec. 6	34	July 14	57
a Chopwellwood ...	445	Dec. 6, 31	30	Aug. 15	58
a Ushaw	599	Jan. 13	32	May 25, Aug. 3	59
a Ampleforth	349	Jan. 12	32	Sept. 27	57
a West Witton ...	605	Jan. 13	26	Jl. 3, Au. 22, S. 27	57
a Fulbeck	180	Dec. 31	28	Aug. 22	61
a Rauceby	124	Jan. 11, Dec. 31	32	Aug. 22	61
3. ENGLAND, E.					
p Lowestoft	83	Feb. 20	36	Au. 22, 28, 29, S. 26	60
p Cromer	196	Jan. 11	35	Aug. 22	61
p Lit. Massingham ...	280	Jan. 13	30	Aug. 22	60
a Yarmouth	17	Feb. 18, Dec. 28	37	Aug. 29	61
p Geldeston	37	Jan. 11	36	Aug. 22	61
p Cambridge	41	Dec. 31	34	Aug. 22	61
a Clacton	54	Dec. 30	34	Aug. 23, 29, 31	61
p Woburn	291	Dec. 30, 31	34	Aug. 22	60
p Bennington	406	Jan. 13	33	Aug. 22	59
p Berkhamsted ...	400	Dec. 29	34	Aug. 22	59
a Norwich	93	Dec. 6	33	My. 29, Jl. 18, A. 22, S. 5	59
a Peterborough (Eye)	16	Dec. 30	33	May 26	62
a Ridgewell	269	Dec. 28 to 31	35	Aug. 22	60
a Ipswich (Copdock)	164	——	—	Au. 1, 22, 31, S. 5	59
a Felixstowe	10	Dec. 30	34	Aug. 22, Sept. 5	61
a Walton-on-Naze ...	69	Dec. 30	34	Aug. 27, 28	61
a Halstead	139	Dec. 22, 29	36	Aug. 22	61
a Chelmsford	134	Jan. 13, Dec. 29, 30	35	Sept. 26	60
p Hemel Hempstead ...	535	Dec. 22, 29	34	Aug. 22	58
a Rothamsted ...	424	Dec. 30, 31	35	Aug. 22, 31	59
a Shoeburyness ...	13	Dec. 29, 30	35	Aug. 22, Sept. 5	60
a Southend	90	Dec. 29	35	Sept. 5	61
4. MIDLAND COUNTIES.					
a Garforth	195	Jan. 13	28	Aug. 22	61
p Huddersfield ...	409	Jan. 13, 14, Dec. 31	33	Aug. 30	58
p Sheffield	429	Jan. 14, Dec. 30	34	Sept. 27	60
a Worksop	56	Jan. 13	29	Aug. 22	62
p Buxton	987	Dec. 31	29	Au. 22, 31, S. 27	56
p Belvoir Castle ...	259	Dec. 30	32	Aug. 22	61
a Coventry	270	Dec. 30	33	Aug. 22	61
a Thrapston	251	Dec. 30	33	Aug. 22	60
a Nottingham ...	82	Jan. 30	30	Jl. 18, Au. 31, S. 27	58
p Birmingham ...	535	Dec. 30, 31	33	Aug. 22, 30	60
a Oxford	208	Dec. 30	34	Aug. 22	61
a Bath	66	Jan. 13	35	Aug. 15	62
p Shrewsbury	191	Dec. 30, 31	35	Aug. 15, 16, 22	59
p Wistanstow	484	Dec. 31	33	Aug. 15	60
p Bromyard	392	Jan. 22, Dec. 31	34	Aug. 15, 22	60
p Cheltenham	214	Dec. 31	32	June 17, Aug. 2, 22	61
a Harrogate	476	Dec. 30	31	Aug. 22	57
a Bradford	439	Dec. 30	33	Sept. 27	58
a Meltham	513	Jan. 11	32	Aug. 22	60
a Cheadle	646	Jan. 13	33	Au. 22, 31, S. 27	59
a Wellington	207	Dec. 31	34	Aug. 15	57
a Bawtry	65	Dec. 31	27	Aug. 22	61
a Matlock	636	Jan. 13	30	Aug. 22, Sept. 27	59
a Belper	222	Jan. 13, Dec. 31	30	Aug. 22	60
a Belper (Quarry Bank)	280	Jan. 13	30	Aug. 22	60
a Mayfield (Staffs) ...	374	Jan. 13	31	Aug. 22	60
a Strelley	377	Jan. 13	30	Aug. 22	60
a Kingston-on-Soar ...	125	Dec. 31	26	Aug. 22	62
a Sparkhill	424	Feb. 20, Dec. 29	34	June 29, July 18, Aug. 17, 31, Sept. 27.	57
p Rugby	379	Dec. 29, 30, 31	34	Aug. 22	60
a Raunds	203	Dec. 30, 31	34	Aug. 22	60
a Malvern	516	Dec. 31	33	June 17, Sept. 27	60
a Ross	213	Dec. 31	33	Aug. 22	62
a Hereford	291	Jan. 13, Dec. 31	32	Aug. 22	62
a Leamington Spa ...	165	Dec. 31	32	Aug. 22	62
a Cirencester	446	Jan. 13, Dec. 30	33	July 18, 31	61
a High Wycombe ...	249	—	—	—	—
5. ENGLAND, S.E.					
p Reading	264	Jan. 13, Dec. 31	34	Aug. 22	60
p Salisbury (Wilton)	180	Dec. 30	34	Aug. 15	62
a Grayshott	661	Dec. 29	33	Jn. 17, Au. 15, 22, 31	58
a Midhurst	480	Dec. 29, 30	34	May 27	59
a Brighton	31	Dec. 29, 30	34	Aug. 22	62
a Portsmouth	11	Dec. 29, 30	36	Aug. 15, 22	62
p Eastbourne	39	Dec. 29	36	Aug. 22, 23, 31, Sept. 4, 24, 27.	60
a Dover	231	Feb. 18, Dec. 29, 30	36	May 30	62
a Dungeness	21	Dec. 29	35	Aug. 31	62
p Hastings	178	Feb. 18, Dec. 29, 30	36	Aug. 29, 30	61
p Southampton ...	65	Dec. 30	36	Jl. 3, 18, Au. 15, 22, 31, Sept. 27.	60
a Ventnor	80	Dec. 29	36	Aug. 28	63
a Malmesbury ...	235	Jan 13, Dec. 30	34	Aug. 16	60
a Wokingham ...	216	Dec. 22, 29, 30, 31	35	Aug. 31 ?	59?
a Marlborough ...	424	Feb 18	32	Aug. 15, 22	59
a Bucklebury	409	Dec. 30	33	Aug. 31	59
a New Malden ...	39	Dec. 30	34	Au. 22, 31, S. 5	60
a Croydon (Addington)	472	Dec. 28 to 31	35	May 26, June 17, Au. 22, 31, S. 27.	59
a Wallington	140	Dec. 30	34	Aug. 31	60
a Woking	179	Dec. 22, 29, 30	35	Au. 15, 22, 31, S. 27	59
a Margate	35	Feb. 18	37	Aug. 26, 27, 30, 31	61
a Aldershot	231	Dec. 29	34	Aug. 22, 31	59
a Wisley	150	Dec. 30	35	Aug. 22	60
a Basingstoke ...	289	Dec. 30, 31	33	Aug. 22	60
a Sevenoaks	509	Dec. 29, 30	34	Aug. 31	59
a Tunbridge Wells ...	418	—	—	—	—
a Matfield	319	Dec. 29, 30	35	Aug. 31	60
Ramsgate	168	—	—	—	—
a Folkestone	121	Dec. 29, 30	37	Aug. 29	63
a Bexhill	27	Dec. 29	36	Aug. 29	62
a Worthing	36	Dec. 30	36	Aug. 15, 22, 23, 28, 31, Sept. 27.	60
a Bognor	20	Dec. 29, 30, 31	38	Au. 15, 22, S. 27	61
a Selsey Bill	21	Dec. 29, 30	36	Aug. 15, 22	61
a Totland Bay ...	140	Dec. 29, 30, 31	37	Aug. 15, Sept. 27	62
a Sandown	20	Dec. 29	36	Aug. 15	63
p Bournemouth ...	145	Dec. 30	35	Aug. 15	63

NOTE.—The period covered by the maximum reading is the 24 hours ending at 9 p.m. on the date given, or at 9 a.m. on the day succeeding, according as *p* or *a* is prefixed to the name of the station. At observatories where no letter is prefixed, the period is the civil day.

TABLE I. (*continued*).—COLDEST DAY and WARMEST NIGHT in the YEAR.

DISTRICTS AND STATIONS	Height of Gauge above M.S.L.	Coldest Day. Lowest Maximum and Date.		Warmest Night. Highest Minimum and Date.	
	Ft.		°F.		°F.
LONDON.					
a Enfield	203	Dec. 30	35	Aug. 22	61
a Golders Green ...	279	Dec. 22, 28, 29, 30	37	Aug. 22, 31	60
p Hampstead (Redington Rd.).	375	Jan. 13, Dec. 30	34	May 26, Aug. 22	59
p Tottenham	51	Jan. 13, Dec. 30	36	Aug. 22	62
p Hampstead	450	Jan. 13, Dec. 29, 30	34	May27, Jn.17, Au.22	59
a Camden Square ...	110	Dec. 30	35	Aug. 22	61
a Westminster ...	27	Dec. 30	36	Aug. 22, 31, S. 5, 17	61
a South Kensington...	31	Dec. 29, 30	37	Sept. 27	63
a Greenwich	155	Ja. 13, F. 20, D. 30	36	Sept. 4	59
Kew	18	Feb. 20, Dec. 30	36	Aug. 22, Sept. 4	60
6. SCOTLAND, W.					
p Eskdalemuir ...	799	Dec. 31	25	Aug. 16	59
p Poltalloch	132	Dec. 30	33	Aug. 3	57
p Glasgow	180	Dec. 6	32	Sept. 25, 26	56
p Rothesay	73	Dec. 6	34	Aug. 2, Sept. 25	57
a Colmonell	150	Jan. 13	33	Aug. 16	60
p Dumfries	160	Jan. 14, Dec. 31	32	Aug. 16	60
p Cally	120	Jan. 13	33	July 3	57
p Douglas	277	Dec. 30	37	Aug. 15, 16	58
p Oban...	20	Dec. 30	35	Sept. 25, 28	58
a Ardnadam	64	—	—	—	—
a Thorntonhall ...	440	Jan. 13, Dec. 30	32	Aug. 16	56
a Kilmarnock... ...	90	Jan. 13	34	Sept. 25	58
p Ruthwell	67	Dec. 31	32	Sept. 24	60
7. ENGLAND, N. W.					
a Southport	37	Jan. 13	34	Aug. 16, 30	60
p Manchester (City)...	190	Dec. 31	34	Sept. 27	65
p „ (Whitworth Pk.)	125	Dec. 31	33	June 17	60
p Darwen	722	Jan. 14	32	Sept. 27	58
p Egremont	349	Dec. 30	33	Aug. 16	60
p Aspatria	250	Jan. 13	33	Aug. 16	60
p Newton Rigg ...	559	Dec. 31	27	Aug. 16	58
p Stonyhurst	375	Dec. 31	33	Jn. 4, Au. 30, S. 27	59
p Blackpool	66	Jan. 14	33	Aug. 16	60
p Liverpool (Bid.) ...	188	Jan. 14	34	Jl. 30, Au. 30, S. 27	59
p Llandudno	71	Jan. 13	33	Aug. 15, 16	60
a Holyhead	57	Jan. 13, Feb. 22	40	Au. 16, 29, Sept. 25	60
p Bettws-y-Coed ...	101	—	—	—	—
p Dwyran	16	Feb. 20, Dec. 29, 31	39	Aug. 16	61
a Scaleby	111	Jan 13, Dec. 31	33	Aug. 16	59
a Seathwaite	422	Jan. 11, 12, 13, D. 30	34	July 4, Au. 29, 30	59
a Carnforth	174	Jan. 13	32	Aug. 16, 30	58
a Lancaster	311	Jan. 11	34	June 17	61
a Hutton	82	Jan. 11	34	Aug. 16, 22	59
a Burnley	459	Jan. 13	32	Aug. 22	58
a Leyland	124	Jan. 11, 13	34	Aug. 16, 22	59
a Bolton	341	Jan. 11	34	Aug. 22, Sept. 27	59
a Blundellsands ...	34	Jan. 13	35	Aug. 22, 30	60
a Hoylake	30	Feb. 20	37	Jl. 30, Au. 3, 16, 31	58
a Rhyl...	30	Feb. 20	37	Aug. 16	62
a Colwyn Bay ...	81	Feb. 20	37	Aug. 16, 30	62
a Llanberis (Pen-y-Gwyrd).	913	Jan. 13	33	Aug. 16	60
a Macclesfield ..	500	Dec. 30	32	June 17	63
a Northwich	117	Dec. 31	25	Aug. 22	62
a Hawarden Bridge ...	22	Jan. 13	32	June 2, Aug. 22	61
a Ruthin	449	Dec. 31	33	Aug. 16	61
a St. Asaph	479	—	—	June 17	62
a Welshpool	255	Dec. 31	25	Aug. 22	62
p Aberdovey	22	Feb. 20, Dec. 31	38	July 30, Aug. 16	61
8. ENGLAND, S.W.					
a Llangammarch ...	550	Jan. 13	33	Aug. 15, 16, 22	60
a Pembroke	149	Feb. 19, 20	39	Au. 15, 22, 30, S. 25	59
a Portland Bill ...	19	Dec. 30	37	Aug. 15	61
p Plymouth	116	Feb. 20	36	Aug. 16, 28	62
Falmouth	167	Feb. 19	36	Aug. 16	61

DISTRICTS AND STATIONS.	Height of Gauge above M.S.L.	Coldest Day. Lowest Maximum and Date.		Warmest Night. Highest Minimum and Date.	
	Ft.		°F.		°F.
8. ENGLAND, S.W.—*cont.*					
p Cardiff	203	Feb. 20	35	Aug. 22	62
a Newquay	190	Feb 19, 20	37	Aug. 22, 30	61
p Woolacombe ...	59	Feb. 20	38	Aug. 28	61
a Princetown ...	1359	Feb. 20, Dec. 30, 31	30	Aug. 16	60
p Sheepstor	749	Feb. 20	33	Aug. 14	60
p Teignmouth ...	19	Feb. 20, Dec. 31	37	Aug. 15	65
a Aberystwyth ...	59	Dec. 31	36	Aug. 16	63
a Gwernyfed	374	Dec. 31	30	Aug. 15, 16, 22	59
a Haverfordwest ...	93	Dec. 31	36	Aug. 15, 22	61
a Swansea	24	Dec. 30	37	Aug. 28	64
a Clifton	229	Dec. 31	35	Aug. 15	63
a Weston-Super-Mare	29	Feb. 20, Dec. 31	37	Aug. 15, 16, 22	61
a Minehead	104	Feb. 20	37	Aug. 15, 22, Sept. 1	62
a Ilfracombe	24	Feb. 20	39	Aug. 22	62
a Arlington	613	Dec. 31	31	Au. 15, 16, 22, S. 3	59
a Cullompton... ...	202	Feb. 20, Dec. 31	36	Aug. 15, 16	61
a Rousdon	515	Dec. 31	35	Aug. 28, Sept. 27	59
a Sidmouth	147	Feb. 20, Dec. 30, 31	37	Aug. 15, 28	61
a Exmouth	11	—	—	Aug. 15, 22	62
a Killerton	160	Feb. 19, 20	37	Aug. 15	60
a Shaftesbury ...	722	Dec. 30	32	—	—
a Dorchester	314	Dec. 30	34	Aug. 15	60
a Weymouth	21	Dec. 30	36	Aug. 15, S. 27, 28	61
a Torquay	12	Feb. 20	38	Aug. 15	65
p Paignton	11	Feb. 19, 20, Dec. 31	38	Aug. 15	63
a Salcombe	39	Dec. 30, 31	37	Aug. 15	63
a Tavistock	374	Dec. 30, 31	36	Aug. 16	63
a Ashburton	583	Feb. 20	36	Aug. 15	63
a Fowey	51	Feb. 19	36	Aug. 22, 29	60
a Redruth	397	Feb. 19	35	Aug. 22	61
a Penzance	54	Feb. 19	37	Aug. 16, 29	62
9. IRELAND, N.					
a Malin Head ...	208	Jan. 13, Feb. 20	37	Aug. 3, 15	57
a Blacksod Point ...	37	Jan. 13, Feb. 20	39	Aug. 21, Sept. 9	58
p Markree Castle ...	122	Dec. 31	34	Aug. 21	58
a Donaghadee ...	40	Jan. 12, Feb. 1	37	Aug. 16, Sept. 25	57
p Armagh	196	Dec. 31	32	Aug. 15	62
a Belfast	61	Jan. 12	35	Aug. 21	59
p Newtownforbes ...	172	Dec. 31	32	Aug. 21	58
p Dunfanaghy ...	54	Jan. 13	35	—	—
a Lisburn	206	Jan. 12	35	Aug. 21	58
10. IRELAND, S.					
p Dublin (Trin. Coll.)	12	Dec. 30	34	Aug. 15	65
p „ (Phœnix Pk.)	155	Dec. 30	35	Aug. 15	63
p „ (City) ...	47	Dec. 30	33	Aug. 15	65
a Birr Castle	175	Dec. 30	32	Aug. 15	61
Valencia	30	Feb. 20	38	Aug. 21	62
a Roche's Point ...	32	Feb. 20	37	Aug. 15	62
p Limerick (Mungret Coll.).	47	Dec. 31	34	Aug. 14, 15	60
p Dublin (Glasnevin)	67	Dec. 28, 29, 30	37	Aug. 15	64
a Kingstown	42	Dec. 30	35	Aug. 15	65
p ClongowesWood Coll.	245	Dec. 30	33	Aug. 15	62
a Mountmellick ...	252	Jan. 13, 31, Dec. 28	32	Aug. 15	63
p Newcastle, Co. Wickl'w	256	F. 19, 21, D. 22, 29, 30.	39	Aug. 15	65
a Kilkenny	212	Ja. 31, D. 22, 28, 31.	36	Aug. 15	64
a Cahir	199	Dec. 29	35	Aug. 14	61
a Wexford	116	Dec. 30	37	Aug. 16	63
a Waterford	38	Dec. 30	36	Aug. 15	63
p Waterford Trg. Coll.	15	Dec. 30, 31	36	Aug. 14, 15, 16	62
a Foynes	108	Dec. 30	32	June 23	60
a Killarney	174	Feb. 20	36	Aug. 15, Sept. 12	62
a Ballinacurra ...	24	Feb. 20	37	Aug. 15	63
11. ENGLISH CHANNEL.					
a Scilly	131	Feb. 19	38	Jl, 30, Au. 1, 22, 31	59
a Jersey	25	Feb. 18, 19	39	Aug. 27	63
p Guernsey(Brooklyn)	297	Feb. 19	39	Sept. 4, 27	61
p „ (Villa Carey)	180	Feb. 18, Dec. 29	40	Sept. 4, 25, 28	60
a Gibraltar	53	Dec. 29, 30, 31	53	Aug. 23	72

NOTE.—The period covered by the minimum reading is the 24 hours ending at 9 p.m., or 9 a.m. on the date given according as the letter *p* or *a* is prefixed to the name of the station.

II.—MONTHLY FREQUENCIES OF SUNSHINE FOR 16 STATIONS.—NUMBER of DAYS in each MONTH on which the DURATION of SUNSHINE was

STATION.	January.				February.					March.					April.					May.					June.				
	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	9 hours.	Sunless	0-3 hours.	3-6 hours	6-9 hours.	9 hours.
Deerness	16	12	3	0	12	12	3	1	0	7	9	8	6	1	3	12	6	3	6	6	8	5	8	4	3	7	10	6	4
Aberdeen	21	8	2	0	7	17	2	2	0	6	7	5	9	4	2	9	11	4	4	6	6	7	5	7	2	5	11	2	10
Cockle Park	19	8	3	1	7	10	4	7	0	4	7	7	8	5	4	9	7	6	4	5	7	5	7	7	0	6	9	7	8
Cambridge	15	5	10	1	8	13	2	5	0	4	12	6	7	2	2	13	6	4	5	3	5	6	4	13	0	6	8	9	7
Southampton	13	14	4	0	7	8	7	6	0	6	10	8	7	0	2	10	10	7	1	3	5	4	8	11	0	8	7	5	10
Kew	14	12	4	1	12	10	6	0	0	5	15	6	5	0	2	12	8	5	3	2	6	5	7	11	0	7	5	11	7
Eskdalemuir	22	8	0	1	11	12	4	1	0	5	14	8	4	0	4	12	10	3	1	5	9	7	6	4	2	8	9	9	2
Glasgow	27	3	1	0	18	7	3	0	0	5	14	10	2	0	2	14	9	3	2	7	8	6	8	2	1	10	10	8	1
Douglas	13	11	6	1	8	13	5	2	0	4	7	10	8	2	2	12	3	6	7	4	9	5	4	9	2	3	10	5	10
Stonyhurst	20	11	0	0	12	9	5	2	0	8	9	11	3	0	3	12	11	3	1	5	9	7	5	5	3	14	3	5	5
Falmouth	10	14	7	0	8	8	3	9	0	7	6	8	9	1	3	13	3	8	3	0	7	9	3	12	0	13	2	4	11
Markree Castle ...	14	13	4	0	10	12	3	3	0	5	7	12	6	1	3	11	2	7	7	5	8	8	6	4	6	9	5	6	4
Armagh	16	10	5	0	6	15	6	1	0	4	11	9	6	1	4	8	8	7	3	4	6	8	7	6	6	8	5	4	7
Dublin (Phœnix Park)	14	8	9	0	11	10	7	0	0	4	9	7	10	1	1	12	7	7	3	3	11	5	7	5	3	6	6	6	9
Valencia	12	16	2	1	9	10	5	3	1	6	10	8	5	2	5	7	5	5	8	6	7	7	5	6	2	12	3	7	6
Limerick	6	19	6	0	8	13	5	2	0	4	11	8	6	2	2	12	4	5	7	2	9	7	10	3	3	9	8	3	7

TABLE III.—COLDEST DAY and WARMEST NIGHT in each month for 18 STATIONS. Dates on which the *lowest* reading

STATION.	January.				February.				March.				April.				May.				June.			
	Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.	
	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.
		°F.		°F.		°F.		°F.		°F.		°F.		°F,		°F.		°F.		°F.		°F.		°F.
p Deerness	13, 25, 26	38	8th	44	1st	37	14th	43	17th	35	25, 29,	41	10, 11, 12	43	30th	45	6th	45	30, 31	48	12th	50	16th	51
p Fort William ...	23rd	36	8th	48	1st	36	11th	43	17th	35	1st	41	11th	37	22, 24	45	7, 19	48	25, 30	50	8th	49	17, 18	55
Aberdeen	12, 13	37	8th	44	1st	38	11, 27	42	17th	39	29th	41	11th	35	30th	44	11th	44	29th	52	13th	53	29th	52
p Cockle Park	12, 14, 22	33	4, 8	40	18, 19 28	38	3, 4	40	18th	38	30th	40	11th	37	25th	44	7th	44	29th	53	13th	54	18, 25, 27	51
p Cambridge	11th	37	4th	45	18, 20	38	4th	45	18th	44	5, 10, 30	46	11th	42	28th	51	18th	52	29th	58	11th	62	29th	56
p Shrewsbury	14th	39	7, 24	45	14th	40	4th	47	17th	43	10th	46	12th	45	22nd	49	6th	49	29th	55	7, 8, 9, 11	60	17th	57
p Southampton ...	13, 14	41	4, 24	47	20th	38	4th	48	18th	44	10th	47	12, 13	47	27th	50	4th	48	24, 27	55	6th	57	17th	57
Kew	13th	37	4th	47	20th	36	3, 4	46	1st	43	6th	47	12th	43	27th	50	4th	53	29th	57	24th	61	17th	58
Eskdalemuir	13th	32	7th	43	18th	36	3rd	41	18th	34	29th	39	11th	33	29th	42	3rd	45	30th	50	9th	49	5th	52
p Glasgow	12, 13, 14	35	8th	46	1st	38	12, 26	43	18th	38	30th	42	12th	40	24th	47	3rd	47	30th	51	9th	51	16th	53
p Douglas	13th	40	7th	48	18, 19 20	41	3, 4, 7	44	17th	42	30th	43	12th	44	22nd	49	6th	47	24th	52	9th	51	17th	55
p Stonyhurst	13th	34	7th	44	19th	38	3rd	44	18th	40	6, 30	42	11th	41	24th	50	19th	49	30th	56	9th	51	4th	59
Falmouth	13th	43	7th	50	19th	36	3, 4, 9	49	7th	46	10th	47	7th	48	21st	49	4th	51	29th	54	8th	57	16th	55
p Markree Castle ...	13th	36	7th	44	1st	36	3rd	46	15th	39	1st	43	2nd	47	10, 22	46	3rd	50	24th	52	9th	54	15th	55
p Armagh	13th	33	7, 8	47	1st	37	11th	45	15, 16,	40	1st	44	15th	48	22nd	47	6, 8	49	24th	52	11th	52	28th	55
p Dublin (Phœnix Park)	12th	40	7th	50	20th	39	3rd	46	15, 16, 17	43	1st	44	12th	48	10th	45	6th	47	24th	53	9th	55	28th	54
Valencia	15th	42	23rd	49	20th	38	10th	51	7th	44	10th	45	25th	47	21st	48	8th	48	27th	53	9th	54	20th	54
p Limerick	13, 31	38	7, 23	47	20th	36	3rd	48	15th	43	1st	44	25th	45	21, 22	47	6th	50	24th	54	5th	54	28th	54

TABLE IV.—NUMBER of DAYS in the YEAR with MAXIMUM and MINIMUM TEMPERATURES between given limits.

STATION.	MAXIMUM TEMPERATURE.								MINIMUM TEMPERATURE.							
	32° or less.	33° to 41°.	42° to 50°.	51° to 59°.	60° to 68°.	69° to 77°.	78° to 88°.	Above 88°.	5° or less.	6° to 14°.	15° to 23°.	24° to 32°.	33° to 41°.	42° to 50°.	51° to 59°.	Above 59°.
Deerness	0	31	160	156	18	0	0	0	0	0	0	20	136	166	43	0
Fort William ...	2	31	119	101	84	27	1	0	0	0	4	39	141	130	51	0
Aberdeen	1	38	129	125	67	5	0	0	0	0	3	30	130	146	56	0
Cockle Park ...	1	41	111	115	88	8	1	0	0	0	3	55	141	134	32	0
Cambridge ...	0	17	80	103	107	49	9	0	0	0	0	49	109	131	75	1
Shrewsbury ...	0	12	83	122	101	42	5	0	0	0	3	41	130	125	66	0
Southampton ...	0	14	73	114	103	59	2	0	0	0	0	30	91	133	104	7
Kew	0	15	82	105	110	47	6	0	0	0	0	26	111	120	106	2
Eskdalemuir ...	5	61	114	104	65	16	0	0	0	1	11	69	144	118	22	0

STATION.	MAXIMUM TEMPERATURE.								MINIMUM TEMPERATURE.							
	32° or less.	33° to 41°.	42° to 50°.	51° to 59°.	60° to 68°.	69° to 77°.	78° to 88°.	Above 88°.	5° or less.	6° to 14°.	15° to 23°.	24° to 32°.	33° to 41°.	42° to 50°.	51° to 59°.	Above 59°.
Glasgow	1	39	114	117	74	20	0	0	0	0	1	24	130	158	52	0
Douglas	0	9	139	121	85	11	0	0	0	0	1	7	122	155	80	0
Stonyhurst ...	0	31	114	97	101	22	0	0	0	0	1	19	133	137	75	0
Falmouth... ...	0	7	74	146	119	19	0	0	0	0	0	6	77	168	112	2
Markree Castle ...	0	17	96	131	104	17	0	0	0	0	2	48	142	134	39	0
Armagh	1	16	106	119	99	24	0	0	0	0	3	29	141	145	46	1
Dublin (Phœnix Park).	0	9	85	135	113	23	0	0	0	0	5	59	132	125	43	1
Valencia	0	6	85	165	95	14	0	0	0	0	0	7	88	156	110	4
Limerick	0	13	78	146	101	27	0	0	0	0	3	42	122	141	55	2

(1) nil, (2) 3 hours or less, (3) more than 3 hours but not more than 6 hours, (4) more than 6 hours but not more than 9 hours, (5) more than 9 hours.

July.					August.					September.					October.					November.					December.					Year.					Station.
Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	Λ 9 hours.	
4	16	4	0	7	4	15	4	5	3	8	14	4	3	1	5	14	11	1	0	11	17	1	1	0	23	8	0	0	0	102	144	59	34	26	Deerness.
1	15	6	4	5	2	13	4	4	8	7	14	5	3	1	6	9	11	5	0	7	14	8	1	0	8	17	6	0	0	75	134	78	39	39	Aberdeen.
6	11	6	5	3	2	9	5	6	9	6	12	6	4	2	8	10	7	6	0	5	11	12	2	0	11	12	8	0	0	77	112	79	59	38	Cockle Park.
4	15	5	6	1	4	8	5	8	6	5	9	4	7	5	6	6	10	9	0	6	10	10	4	0	15	10	6	0	0	72	112	78	64	39	Cambridge.
3	11	6	6	5	1	11	6	6	7	7	4	7	7	5	2	15	11	3	0	2	16	7	5	0	8	16	6	1	0	54	128	83	61	39	Southampton.
3	18	3	5	2	2	14	4	6	5	5	9	6	6	4	4	12	12	3	0	8	11	11	0	0	18	6	7	0	0	75	132	77	49	32	Kew.
3	10	4	8	6	3	8	9	6	5	7	11	7	3	2	9	11	7	4	0	10	15	5	0	0	16	9	6	0	0	97	127	76	45	20	Eskdalemuir.
6	3	4	9	9	3	9	8	8	3	8	11	7	2	2	8	11	8	4	0	9	17	4	0	0	17	12	2	0	0	111	119	72	44	19	Glasgow.
2	9	3	5	12	2	7	2	8	12	5	10	4	5	6	5	17	4	5	0	5	18	5	2	0	13	10	6	2	0	65	126	63	53	58	Douglas.
4	8	10	5	4	4	6	8	8	5	3	11	7	7	2	7	13	9	2	0	10	15	5	0	0	21	5	5	0	0	100	122	81	40	22	Stonyhurst.
1	5	5	7	13	4	7	5	6	9	7	8	4	6	5	3	12	9	7	0	4	16	9	1	0	7	18	4	2	0	54	127	68	62	54	Falmouth.
7	10	3	2	9	1	12	5	7	6	3	10	10	5	2	4	10	13	4	0	8	14	8	0	0	15	13	3	0	0	81	129	76	46	33	Markree Castle.
7	8	5	3	8	4	8	8	5	6	3	11	12	4	0	5	15	6	5	0	5	17	6	2	0	14	11	6	0	0	78	128	84	44	31	Armagh.
4	9	6	6	6	2	7	8	7	7	6	10	10	3	1	9	12	1	9	0	4	14	6	6	0	17	8	6	0	0	78	116	78	61	32	Dublin (Ph. Pk.)
3	8	6	3	11	3	6	4	6	12	5	11	5	7	2	4	13	4	8	2	13	13	3	1	0	11	15	4	1	0	79	128	56	52	50	Valencia.
1	14	1	8	7	5	9	6	8	3	5	12	5	6	2	6	13	4	8	0	7	15	7	1	0	16	9	6	0	0	65	145	67	57	31	Limerick.

for the month of the maximum thermometer and the *highest* reading of the minimum thermometer were recorded.

July.				August.				September.				October.				November.				December.				Year.				Station.
Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		Coldest Day.		Warmest Night.		
Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	Date.	Max.	Date.	Min.	
	°F.		°F.		°F.		°F.		F°.		°F.		°F.		°F.		°F.		°F.		°F.		°F.					
6, 7	54	13, 17, 18, 29, 30	53	7, 8, 10	55	1, 29	54	18th	51	25th	55	23rd	45	17, 18	53	15, 21	44	12th	48	5, 27	36	11, 21	45	Mar. 17	35	Sept. 25	55	Deerness.
10, 17	56	15th	55	25th	59	26th	56	13th	53	23rd	57	23rd	47	17th	55	8th	42	28th	49	6th	30	15th	48	Dec. 6	30	Sept. 23	57	Fort William.
5, 6, 7, 22, 24	56	2nd	57	11th	55	16th	56	13th	50	25th	55	23rd	42	19th	54	22nd	44	28th	50	6th	29	15th	46	Dec. 6	29	July 2	57	Aberdeen.
23rd	55	3, 14	54	31st	56	3, 22	56	13th	52	27th	55	23rd	45	1, 2, 14	52	23rd	44	28, 29	49	31st	31	15th	47	Dec. 31	31	Aug. 3, 22	56	Cockle Park.
23rd	57	18th	58	19th	60	22nd	61	2nd	58	5th	58	23rd	52	20th	53	23rd	47	17th	50	31st	34	3rd	49	Dec. 31	34	Aug. 22	61	Cambridge.
7, 9	58	18, 30	57	10th	61	15, 16 22	59	2nd	56	5, 13, 26, 27	26	25th	48	2nd	55	23rd	47	30th	50	30, 31	35	3, 15	47	Dec. 30, 31	35	Aug. 15 16, 22	59	Shrewsbury.
7th	57	3, 18	60	8th	61	15, 16, 22, 31	60	2, 15	59	27th	60	24th	55	20th	56	22nd	49	2nd	53	30th	36	1, 2, 3	50	Dec. 30	36	July 3, 18 Aug. & Sept.	60	Southampton.
23rd	58	18th	57	19th	62	22nd	60	1st	58	4th	60	24th	51	2nd	56	23rd	47	2nd	53	30th	36	3rd	50	Feb. 20 Dec. 30	36	Aug. 22 Sept. 4	60	Kew.
21st	55	3rd	54	31st	57	16th	59	13th	48	27th	54	23rd	41	19th	50	8th	40	28th	48	31st	25	15th	43	Dec. 31	25	Aug. 16	59	Eskdalemuir.
21st	55	3, 17, 31	54	25th	58	22nd	55	16th	50	25, 26	56	23rd	43	14th	54	8th	41	29th	49	6th	32	9, 12	45	Dec. 31	32	Sept. 25, 26	56	Glasgow.
9th	54	13, 17, 25	54	10th	59	15, 16	58	13th	52	25th	57	24th	48	13th	55	15th	47	11, 28, 29	49	30th	37	15th	48	Dec. 30	37	Aug. 15, 16	58	Douglas.
4, 7, 10	59	3rd	57	5, 14	60	30th	59	1st	57	27th	59	23, 24	48	2nd	55	23rd	45	29th	49	31st	33	3rd	48	Dec. 31	31	June 4 Aug. & Sept.	59	Stonyhurst.
7th	59	18, 30, 31	59	8, 9	63	16th	61	16th	59	1, 5, 6	59	21st	52	14, 15	56	6, 15, 23, 24, 29	51	18th	52	30, 31	38	1, 7	49	Feb. 19	36	Aug. 16	61	Falmouth.
4, 9	58	17, 29	54	5, 8, 30, 31	60	21st	58	14th	52	5th	55	23rd	47	13th	56	24th	46	28th	48	31st	34	8th	47	Dec. 31	34	Aug. 21	58	Markree.
4, 18	59	3, 17, 29	54	5th	59	15th	62	13th	55	25th	57	24th	46	13th	56	22nd	45	10th	49	31st	32	8th	46	Dec. 31	32	Aug. 15	62	Armagh.
7, 10	60	13th	56	5th	61	15th	63	13th	52	25th	59	23rd	47	13th	58	6th	47	28, 29	48	30th	35	8, 15	46	Dec. 30	35	Aug. 15	63	Dublin.
8th	57	31st	59	31st	59	21st	62	14th	54	11th	60	24th	48	12th	58	22nd	51	9th	53	30th	39	8th	51	Feb. 20	38	Aug. 21	62	Valencia.
8th	56	22, 29	56	30th	59	14, 15	60	14th	53	11th	57	23rd	47	13th	58	22nd	48	20th	52	31st	34	6, 8	48	Dec. 31	34	Aug. 14, 15	60	Limerick.

Table showing the Monthly and Annual Rainfall at certain additional Stations during 1913.

District and Station.		Lat.		Long.		Height.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
		°	′	°	′	ft.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
0. SCOTLAND, N.	Ardross Castle	57	45	4	21 W.	449	1·16	2·71	3·31	2·11	2·02	3·09	0·94	1·00	2·92	1·74	4·39	4·81	30·20
	Glendrynoch, Skye	57	18	6	18 W.	39	7·95	3·97	9·05	0·35	2·20	2·30	2·97	2·74	4·69	8·26	10·71	10·40	65·59
	Reay (The Manse)	58	33	3	46 W.	49	1·62	1·60	3·15	1·34	2·07	1·52	1·11	0·99	2·24	1·79	4·31	4 84	26·58
1. SCOTLAND, E.—Dyce		57	13	2	10 W.	149	3·52	0·66	3·29	2·27	4·37	1·47	1·58	1·10	2·77	1·15	1·80	1·76	25·74
2. ENGLAND, N.E.	Allan's Green	54	59	2	20 W.	1000	3·25	1·94	5·03	2·68	1·94	2·18	1·68	1·91	2·75	2·71	3·46	2·53	32·06
	Claypole Rectory	53	2	0	46 W.	70	1·73	0·71	2·70	1·76	1·77	0·50	0·33	1·75	2·16	5·33	1·71	0·80	21·25
	Holme-on-Spalding-Moor ...	53	48	0	46 W.	34	2·68	0·71	2·19	2·07	2·04	1·02	0·26	0·83	1·44	2·70	2·19	1·59	19·72
	Hovingham Hall	54	10	0	59 W.	120	3·22	0·93	2·37	2·77	2·12	1·63	0·21	1·51	0·84	2·93	2·16	2·21	22·90
	Mareham-le-Fen	53	8	0	5 W.	10	3·18	0·68	2·29	2·03	1·82	0·92	0·65	0·70	1·86	3·79	2·06	0·64	20·62
	Temple Bruer	53	4	0	30 W.	?	2·48	0·63	3·08	2·11	1·70	0·78	0·56	0·59	1·35	5·74	2·22	0·57	21·81
	York (Deighton Grove) ...	53	54	1	3 W.	45	2·81	0·73	2·29	2·79	2·06	1·54	0·47	1·06	1·34	2·59	2·16	1·35	21·19
3. ENGLAND, E.	Brandon	52	27	0	37 E.	48	2·56	0·64	1·61	1·61	1·97	1·13	1·04	1·12	0·73	2·16	1·83	0·49	16·89
	Offley Vicarage... ...	51	56	0	21 W.	523	2·99	0·90	2·32	3·23	1·71	0·98	1·19	1·12	1·44	2·84	2·49	0·89	22·10
	Southend Water Works. Billericay ...	51	37	0	25 E.	310	3·49	0·69	2·13	2·85	1·65	1·55	1·72	1·01	0·90	3·56	3·13	0·69	23·37
	Southend Water Works. Nevendon ...	51	35	0	31 E.	43	2·98	0·51	2·01	2·54	1·47	0·63	1·47	0·94	0·84	3·68	2·89	0·86	20·82
	Southend Water Works. Thundersly ...	51	34	0	35 E.	277	2·77	0·57	1·69	1·92	1·62	0·66	1·72	0·73	1·13	3·91	3·30	0·91	20·93

TABLE SHOWING THE MONTHLY AND ANNUAL RAINFALL AT CERTAIN ADDITIONAL STATIONS DURING 1913—*continued.*

District and Station.	Lat.	Long.	Height.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.	Year.
	° ′	° ′	ft.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.
3. ENGLAND, E.—*cont.*																
South Hanningfield	51 39	0 31 E.	134	2·82	0·69	2·07	2·88	2·02	0·56	1·90	0·96	0·92	3·77	3·29	0·71	22·59
Stifford	51 30	0 18 E.	73	2·46	0·61	1·86	2·20	1·12	0·36	2·28	1·43	1·62	3·67	2·52	0·68	20·81
Thetford	52 25	0 45 E.	169	2·60	0·74	1·93	1·82	2·23	1·98	0·76	1·39	0·82	2·77	2·51	0·63	20·18
4. MIDLAND COUNTIES.																
Birmingham (Hagley Rd.) ...	52 28	1 58 W.	612	4·21	0·85	5·57	3·98	2·49	1·61	1·66	1·20	2·04	3·32	2·63	1·30	30·86
Birmingham (Water Dept.). Frankley ...	52 25	1 59 W.	569	4·64	1·04	5·55	4·36	2·48	1·56	1·53	1·81	1·76	3·17	3·21	1·31	32·42
(Water Dept.). Whitacre ...	52 31	1 40 W.	268	4·07	0·83	3·93	3·80	2·07	1·22	1·11	0·74	1·73	3·03	2·21	0·90	25·70
Butler's Cross	51 46	0 47 W.	399	3·36	0·86	2·53	2·92	1·91	0·90	1·18	0·89	1·52	4·67	2·75	0·93	24·42
Dursley	51 41	2 21 W.	256	5·82	1·36	4·03	3·70	2·69	0·45	0·69	0·82	3·53	3·02	3·15	1·22	30·48
Forest of Dean. Blakeney Hill ...	51 46	2 30 W.	499	5·33	1·31	4·26	4·34	3·02	0·62	0·57	0·90	3·50	3·48	3·69	1·18	32·20
Forest of Dean. Edgehills ...	51 51	2 29 W.	699	5·92	1·49	5·21	5·10	3·18	0·74	0·70	1·02	3·01	4·46	3·98	1·32	36·13
Forest of Dean. Worcester Lodge ...	51 48	2 35 W.	699	6·34	1·55	5·40	5·08	3·19	0·93	0·39	0·78	3·37	4·60	4·43	0·96	37·02
Great Billing	52 16	0 50 W.	273	3·46	0·92	2·75	2·39	1·59	0·72	1·19	0·55	1·67	3·69	2·19	0·88	22·00
Hidcote Campden	52 5	1 46 W.	519	3·31	0·93	3·45	2·73	1·92	0·43	1·91	0·75	2·64	2·55	2·65	0·87	24·14
Oundle	52 29	0 28 W.	146	2·42	0·50	2·69	2·71	2·49	1·29	0·96	1·82	2·20	2·71	1·79	0·70	22·28
Ridlington	52 37	0 45 W.	522	3·41	0·73	3·73	2·19	1·34	1·34	0·82	0·92	2·15	3·56	3·22	0·83	24·24
Rochford	52 18	2 36 W.	315	4·01	1·21	5·41	4·49	2·41	0·99	0·75	1·89	2·06	4·81	3·16	1·04	32·23
Syston	52 43	1 5 W.	178	3·55	0·84	3·82	2·36	1·43	1·03	1·00	1·41	2·07	2·83	2·06	1·06	23·46
Tenbury (St. Michael's) ...	52 18	2 36 W.	312	4·24	1·14	5·34	5·00	2·33	0·81	0·87	1·82	2·49	4·37	3·02	1·06	32·49
Watlington	51 38	1 0 W.	474	3·89	1·16	2·73	3·14	2·95	0·77	0·94	1·05	1·75	4·80	3·24	0·89	27·31
5. ENGLAND, S.E.																
Brighton Preston)	50 51	0 8 W.	301	5·74	1·18	2·72	3·35	2·08	0·69	4·60	2·60	2·11	4·84	4·85	1·88	36·64
Cuckfield	51 1	0 9 W.	389	4·37	1·00	2·74	3·09	2·07	0·55	2·40	1·91	3·04	4·62	3·85	1·66	31·30
Dover (Kearsney)	51 8	1 17 E.	125	3·70	1·15	2·52	3·11	0·96	0·46	1·86	2·00	2·18	3·76	4·50	2·03	28·23
„ (Water Works)... ...	51 7	1 18 E.	198	3·50	1·03	2·25	2·60	0·99	0·74	1·92	1·33	1·90	3·65	3·79	2·28	25·98
Hastings Cemetery	50 52	0 34 E.	499	4·65	1·05	2·06	2·97	1·09	0·59	2·43	2·36	2·35	5·08	3·57	1·58	29·78
Heathfield	50 58	0 16 E.	499	5·15	1·22	2·62	3·98	1·11	1·26	3·33	1·51	1·90	5·47	4·76	1·48	33·79
Hildenborough...	51 13	0 15 E.	99	3·59	0·70	1·98	2·41	2·10	0·52	2·33	1·20	1·38	4·81	3·55	0·97	25·54
King's Somborne	51 5	1 27 W.	234	4·66	1·07	3·32	3·00	2·25	0·33	1·45	1·04	2·46	5·20	3·01	1·88	29·67
Newick Rectory	50 58	0 1 E.	133	3·99	0·98	2·45	3·92	1·20	0·52	3·37	2·16	3·00	5·55	3·84	1·46	32·44
Sandgate	51 4	1 9 E.	50	2·94	0·52	2·14	2·76	0·65	0·60	1·96	2·88	1·88	4·44	3·49	2·34	26·60
Sandwich	51 17	1 20 E.	6	3·13	0·54	1·52	1·98	1·13	1·24	1·53	1·38	3·39	3·79	2·82	1·38	23·83
Sutton Veny	51 10	2 7 W.	389	5·29	1·40	3·75	4·05	3·44	0·66	0·69	1·18	3·34	3·54	3·33	2·01	32·68
Tankerton	51 22	0 2 E.	72	3·15	0·60	1·90	1·59	0·79	0·48	1·61	0·62	1·11	3·04	2·66	0·84	18·39
Warlingham	51 18	0 3 W.	609	4·64	1·29	3·75	3·50	1·50	0·40	1·93	1·96	1·40	4·26	3·29	1·46	29·38
Watergate	50 54	0 55 W.	239	6·06	1·58	3·33	3·72	3·30	0·64	2·73	2·37	2·54	6·10	3·68	2·32	38·37
LONDON ...																
Chelsea	51 29	0 10 W.	24	2·42	0·72	2·44	2·64	1·57	0·42	1·91	1·42	1·77	3·11	2·12	0·96	21·50
Kensal Green	51 32	0 13 W.	100	2·50	0·77	2·29	2·86	1·55	0·33	2·01	1·23	1·77	3·01	2·24	0·87	21·43
Manor Park	51 33	0 3 E.	—	2·55	0·73	1·75	2·28	1·38	0·34	1·87	1·69	1·50	3·65	2·41	0·74	20·89
6. SCOTLAND, W.																
Gruline (Isle of Mull) ...	56 30	6 0 W.	100	11·81	6·03	12·59	8·22	5·74	5·53	1·04	2·59	3·50	8·43	12·39	7·14	85·01
Loch Awe Cruachan ...	56 14	5 28 W.	283	9·11	6·28	12·18	7·33	6·89	6·56	1·78	2·23	3·08	5·08	14·64	10·52	85·68
Loch Awe Ford	56 10	5 26 W.	148	7·28	4·22	10·20	5·82	6·76	4·19	1·88	3·49	3·56	5·41	12·03	8·35	73·19
7. ENGLAND, N.W.																
Graythwaite	54 19	3 0 W.	180	5·85	3·27	5·80	6·87	3·08	4·34	0·90	2·34	2·78	4·18	6·97	4·61	50·99
Kirkby Lonsdale	54 12	2 36 W.	304	4·24	2·73	5·92	4·90	2·88	3·41	1·10	3·19	3·59	2·82	5·56	4·01	44·35
Penrhyn Quarry	53 10	4 6 W.	527	8·95	2·88	7·01	7·71	3·99	5·74	1·99	3·90	5·70	5·57	7·96	4·20	65·60
Teyrn	53 4	4 2 W.	1080	20·24	9·27	16·82	13·03	6·99	12·52	3·39	7·09	10·18	7·93	22·22	10·53	140·21
Lliwedd	53 4	4 3 W.	1485	20·30	9·22	19·45	13·50	8·31	12·20	3·53	8·27	11·43	8·69	21·31	10·13	146·34
Glaslyn	53 4	4 5 W.	2050	17·76	6·96	11·51	12·30	7·76	12·34	4·66	9·95	11·70	8·25	20·13	9·22	132·54
Lluchfa	53 4	4 5 W.	2500	18·90		39·99		8·40	14·80	4·76	10·23	12·74	10·50	24·12	*	—
Llydau	53 4	4 2 W.	1470	21·11	9·75	17·90	15·24	7·86	12·55	3·15	6·98	9·20	8·35	21·15	8·42	141·66
Wenallt	53 4	4 2 W.	1050	17·80	8·68	16·46	12·36	8·23	12·03	3·41	7·43	9·51	7·31	21·15	12·08	136·45
Snowdonia Delta	53 4	4 4 W.	1435	20·67	9·76	18·85	13·02	9·30	13·07	4·10	9·47	10·90	8·34	22·85	11·55	151·88
Crib Goch ...	53 4	4 4 W.	2340	21·50	10·31	35·01		8·51	15·52	4·73	10·65	12·33	9·39	26·05	*	—
Copper Mill ...	53 4	4 3 W.	1479	23·51	9·99	19·30	14·38	7·66	14·45	3·88	10·17	11·57	9·77	23·50	12·84	161·02
Intake	53 4	4 2 W.	1479	19·18	8·14	15·32	11·91	6·78	12·49	3·24	8·00	10·91	8·16	20·75	9·87	134·75
Bungalow ...	53 4	4 1 W.	309	15·61	7·35	15·51	11·86	6·98	9·93	2·30	6·37	8·46	7·88	18·67	9·56	120·48
Old Road ...	53 4	4 0 W.	324	15·72	7·64	15·21	12·25	6·78	10·25	2·80	6·60	8·44	8·24	17·76	9·24	120·93
Uldale (Chapel Ho. Res.) ...	54 43	3 9 W.	599	3·41	2·84	5·55	5·11	2·97	3·27	1·09	2·86	2·21	4·09	4·69	5·19	43·28
8. ENGLAND, S.W.																
Abersychan	51 44	3 5 W.	698	10·24	3·41	9·85	9·17	5·06	1·85	0·36	2·10	4·31	6·86	7·35	3·16	63·72
Creech Grange	50 38	2 8 W.	239	5·71	1·77	2·60	3·19	2·12	0·45	0·97	2·42	3·25	5·41	4·56	2·47	34·92
Lampeter	52 7	4 5 W.	498	7·73	2·53	6·78	7·45	4·16	3·35	1·77	2·11	4·08	4·65	6·46	3·55	54·62
Llandrindod (Kimberley) ...	52 14	3 23 W.	699	5·10	2·12	6·09	5·29	3·37	2·28	0·96	2·18	2·03	5·14	4·22	2·33	41·11
Merthyr Mawr (Glam.) ...	51 29	3 36 W.	74	7·07	1·36	5·86	4·74	2·48	2·30	0·60	1·28	3·10	4·07	6·79	2·30	41·95
Newport W. Works. Newchurch ...	51 41	2 48 W.	525	6·30	2·56	6·31	5·57	3·84	1·49	0·18	1·21	4·24	3·67	5·54	1·99	42·90
Newport W. Works. Newport ...	51 35	3 0 W.	32	6·94	2·05	6·28	5·22	2·84	1·85	0·25	1·46	4·28	4·32	5·14	2·21	42·84
Newport W. Works. Pant-yr-eos ...	51 38	3 4 W.	449	9·74	3·18	9·15	7·69	3·81	2·21	0·37	2·29	4·15	6·94	7·35	3·17	60·05
Newport W. Works. Ynis-y-Fro ...	51 38	3 3 W.	151	6·42	1·68	5·06	6·27	2·45	1·47	0·21	1·09	3·41	4·59	4·51	1·67	38·83
Port Talbot (Margam) ...	51 34	3 45 W.	179	7·04	1·57	5·94	5·19	3·48	2·25	0·68	1·89	2·98	4·04	6·99	2·17	44·22
B'ham Water Dept., Rhayader Gwngu ...	52 23	3 41 W.	1650	8·25	2·25	9·15	6·87	3·72	5·85	2·50	5·10	4·05	5·90	11·85	5·55	71·04
B'ham Water Dept., Rhayader Abergwngu ...	52 22	3 41 W.	1200	7·20	2·45	7·35	8·20	3·65	4·35	1·60	2·70	3·80	5·65	9·50	5·00	61·45
B'ham Water Dept., Rhayader Figin (No. 1) ...	52 19	3 44 W.	1700	8·55	2·85	10·75	9·25	4·30	7·45	3·35	6·15	3·95	6·00	12·20	6·70	81·50
B'ham Water Dept., Rhayader Claerwen ...	52 17	3 44 W.	1250	8·00	2·45	7·85	8·05	4·40	5·35	2·95	5·40	3·25	6·95	9·55	5·45	69·65
B'ham Water Dept., Rhayader Nantycar ...	52 15	3 39 W.	1545	10·30	3·70	11·75	11·10	4·20	5·90	2·10	3·95	3·90	6·25	12·30	6·15	81·60
B'ham Water Dept., Rhayader Tynant	52 17	3 37 W.	1250	10·34	3·35	9·98	9·15	3·42	4·55	1·63	2·64	3·38	5·84	9·67	4·97	68·92
B'ham Water Dept., Rhayader Elan Village ...	53 16	3 34 W.	700	8·73	2·83	8·66	8·53	3·31	3·41	1·27	1·70	3·62	6·46	8·03	4·24	60·79
B'ham Water Dept., Rhayader Pen-y-gareg(No.1)	52 18	3 35 W.	1500	8·40	2·50	7·35	7·15	3·40	3·55	1·70	2·15	3·70	6·50	6·95	5·20	58·55
9. IRELAND, N.																
Carrigallen	53 58	7 38 W.	? 350	5·55	1·95	3·50	3·62	4·43	4·12	1·28	0·77	2·86	3·31	3·16	3·63	38·18
Glenarm...	54 58	5 56 W.	41	5·43	2·66	3·91	5·08	2·32	2·17	0·80	1·64	3·61	4·83	4·83	5·23	42·51
10. IRELAND, S.																
Caragh Lake	52 3	9 53 W.	59	14·80	6·94	10·88	7·07	7·31	4·99	0·78	1·74	4·63	10·34	12·19	6·18	87·85
Carrigoran (Newmkt. Fergus)	52 46	8 53 W.	85	6·73	1·77	4·67	3·97	4·00	4·58	1·06	2·14	5·33	3·81	4·84	3·75	46·65
Hurdlestown	52 48	8 38 W.	157	7·10	2·46	5·15	3·61	3·55	3·81	1·16	2·19	5·74	4·13	5·29	3·86	48·05
Limerick (Derravoher) ...	52 38	8 40 W.	40	5·37	1·21	3·67	3·27	3·36	3·17	0·78	2·01	4·89	3·00	4·05	2·74	37·52
Mount Callan	52 53	9 16 W.	479	8·05	2·99	9·05	5·14	5·82	5·69	2·76	4·62	6·08	7·34	8·39	6·40	72·33
Templederry				7·74	2·43	5·65	4·69	3·81	3·85	0·53	1·02	2·82	4·33	4·94	3·18	44·99
Valencia Is. (Glanleam) ...	51 56	10 20 W.	—	9·19	3·57	7·08	5·31	7·84	3·97	1·06	1·55	5·91	8·03	8·18	4·23	65·92

* Gauge frozen.

Meteorological Office, South Kensington, February 18th, 1914.