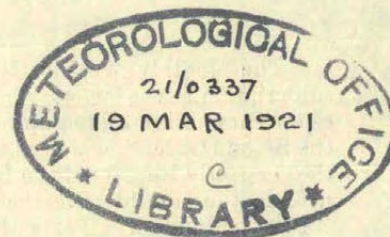


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M.O. 243b.

AIR MINISTRY.

METEOROLOGICAL OFFICE.



BRITISH METEOROLOGICAL AND MAGNETIC YEAR BOOK, 1921

PART II.

THE
MONTHLY WEATHER REPORT
FOR THE YEAR
1921.

Published by the Authority of the Meteorological Committee.

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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 résumé of observations from stations in the British Isles 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. The Meteorological data in the Quarterly Reports of the Registrar-General for England and Wales, for Scotland and for Ireland are compiled from data used in the Monthly Weather Report. Additional information as to rainfall is to be found in the annual volumes of "British Rainfall." Particulars of the methods adopted in taking the observations are given in the *Observer's Handbook*, M.O. 191.

One change of importance was made in 1921. It had been found that it would be desirable for the purposes of the daily weather service to report the maximum temperature for the day only, *i.e.*, from 7h. to 18h., and the minimum temperature for the night only, *i.e.*, from 18h. to 7h., in place of giving both extremes for the 24 hours 7h. to 7h. In accordance with international agreement, the change of practice was made at the telegraphic stations in March, 1921, and a similar alteration was made at certain "Health Resorts" on the introduction of "Summer Time" on April 3rd. The stations to which the new arrangements apply are clearly indicated in Table III, but attention must be called to the fact that the published normals for extreme temperatures do not apply without correction. The normal maximum requires a negative correction, the normal minimum a positive correction; the mid-temperature (the mean of maximum and minimum) is only slightly affected.

It is hoped that a discussion of this question in the light of the readings of the autographic records at certain observatories will be published shortly. References to the question will be found in *The Meteorological Magazine*, pp. 75 and 246, 1921, and p. 9, 1922.

It should be mentioned that in picking out the extremes for the month the readings of the maximum thermometer by night, and of the minimum thermometer by day are duly taken into account. It happens occasionally that the highest temperature of the whole month occurs during the night hours, and likewise the lowest temperature may occur during the day.

By a convention adopted in the official service as from June, 1921, atmospheric obscurity is now called "fog" when the horizontal range of visibility is below 1,100 yards. After the introduction of this convention at the official stations, the discordance between the observations at different places became manifest, and for the last two months of the year only the records at a few stations were printed.

INFORMATION FOR PREVIOUS YEARS.

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. The Monthly Weather Report commenced in 1884. The gap is bridged for telegraphic stations by a supplement to the Daily Weather Report and for other stations by tables in "Observations at Stations of the Second Order." A brief history of the development of the Monthly Weather Report will be found in the 1915 volume.

Only the changes made in later years need be specified here.

In 1916, the Absolute Scale of Temperature was introduced for the District Values of Table I, and in the text of the general description of the weather. For the first few months the Fahrenheit equivalents were given in brackets, subsequently a diagram to facilitate conversion was printed.

A Table of Sea Temperatures was printed with the introduction to the Monthly Weather Report in each of the years 1916-1919.

From the beginning of 1917 the normals for the period 1881-1915 were taken into use for temperature, rainfall and sunshine.

Table XVIII (Wind-rose data) was started in the Annual Summary for that year.

In 1918 the practice of indicating wind direction in Table II by the veer from north in degrees was adopted, and at the same time the headings of this table were changed so as to show that the wind distribution was reckoned according to speed not according to the Beaufort equivalents which are only relevant for an anemometer with a standard exposure.

A new table, Table V, "Rainfall at certain additional stations" was introduced at the beginning of the year 1920. Subsequently Table IVa for radiation observations at Greenwich, and Table IIIb, River temperatures, were introduced. The practice of giving the terminal hours for the extremes of temperature and rainfall was also adopted in 1920.

The changes made in 1921 are referred to above.

The following list gives the dates of various series in which monthly values of meteorological elements for British stations are incorporated:—

International Form B: published in "Observations at Stations of the Second Order" ..	1873—1907
and in "Observations at Stations of the First and Second Orders: Annual Supplement" ..	1914—
Monthly Weather Report (with Annual Summary from 1905)	1884—
Weather Summaries: Working forms preserved at M.O.	1876—1902
International Form B: Working forms preserved at M.O.	1902—
For Royal Engineers Stations: Abstract by Col. Sir H. James, London 1862	1853—1858
For Observatories; Quarterly Weather Report 1869—1880; Hourly Readings 1881—	1869—
For Telegraphic Stations; Q.W.R. 1876—1880; D.W.R. Supplément 1881—1888	1876—1888
For Royal Meteorological Society Stations: Meteorological Record	1881—1911
For Scottish Stations: Journal of the Scottish Meteorological Society	1856—1919
Registrar-General's Returns (England)	1849—
Registrar-General's Returns (Ireland)	1864—
British Rainfall	1860—

GENERAL ARRANGEMENT OF THE REPORT.

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

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

b.—Table I.—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 are also included, as well as extreme values of pressure.

The stations from which the District Values of Temperature and Rainfall are computed are indicated in Table III by the symbol ¶ and the corresponding stations for Sunshine by the symbol §. A list of these stations is printed overleaf.

The removal of the telegraphic reporting station from *Leith* to *Inchkeith*, an island in the Firth of Forth, accounts for a change in the list of District Value Stations for District I.

Weekly returns from Fulbeck having been discontinued, the *Cranwell* data are now utilised for the computation of Weekly District Values for District 2, and for the sake of uniformity for Monthly District Values also.

In District 5, the place of *Wilton House, Salisbury*, was taken by *Porton* at the beginning of 1921.

The lapse of weekly and monthly returns from *Glasgow Observatory* necessitated the dropping of District Values of sunshine for District 6.

The records from Glasgow and Douglas, Isle of Man, had been the basis for District Values for the whole of the area in question, the West of Scotland and the Isle of Man, and the substitution of records from a place with clearer skies than Glasgow would have meant a serious break in the continuity of the series of District Values. As a temperature and rainfall station *Renfrew* makes a satisfactory substitute for Glasgow Observatory.

In District 10, there has been a reduction in the number of stations, observations at Cahir having ceased on the destruction of the observer's residence in the course of hostilities.

c.—Table II.—Summary of autographic records of wind.

All the records are obtained from instruments of the Dines Pressure Tube type except where otherwise stated.

d.—A plate of four maps showing:—

i. The monthly distribution of pressure and winds based on observations at telegraphic reporting stations; also the normal distribution of pressure for the month for the period 1871–1915. Isobars are drawn for intervals of 2 millibars or 1 millibar.

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 in hours per day.

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

f.—Table III, giving Summaries of the records of extreme and mean air temperature and of earth temperature at 1 foot and 4 feet, rainfall and sunshine, and of weather observations. In the case of air temperature, rainfall, and sunshine differences from normal are given when available.

g.—Table III(a).—Additional values of sunshine for a few stations not included in Table III.

h.—Table III(b).—Temperature of the river Derwent.

i.—Table IV, giving Summaries of the observations of pressure, temperature, humidity, cloud, and wind made at set hours. The hours, not being the same for all stations, are indicated in the Table.

k.—Table IV(a).—Royal Observatory, Greenwich.—Sky Observations.

l.—Table V.—Rainfall at certain additional Stations.

Tables III and IV together include all the items comprised in the international form of monthly climatological summary, the Form B. of the Report of the International Meteorological Committee, 1874, and they give in addition information regarding the duration of bright sunshine, 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 temperature on the grass, 30° and below, from 1908), and the pressure at mean sea level (from 1912).

DISTRICT-VALUE STATIONS, 1921.

District.	Temperature and Rainfall.	Sunshine.
0	Lerwick, Stornoway, Wick, Strathpeffer, Glen-carron, Fort Augustus, Fort William.	Deerness, Stornoway.
1	Nairn, Gordon Castle, Aberdeen, Balmoral, Crieff, Leith (or Inchkeith), West Linton, Marchmont.	Crathes, Nairn, Aberdeen, Dundee, Marchmont, Edinburgh.
2	Alnwick, Tynemouth, Durham, Rounton, Scarborough, York, Spurn Hd., Lincoln, Fulbeck (or Cranwell).	Cockle Park, Durham, Scarborough, York, Fulbeck (or Cranwell), Skegness.
3	Cromer, Little Massingham, Yarmouth, Norwich, Geldeston, Cambridge, Clacton-on-Sea, Rothamsted, Tottenham.	Cromer, Little Massingham, Yarmouth, Geldeston, Cambridge, Clacton-on-Sea, Rothamsted, Tottenham.
4	Harrogate, Worksop, Nottingham, Birmingham, Raunds, Oxford, Cheadle, Tenbury, Hereford, Clifton.	Harrogate, Sheffield, Worksop, Nottingham, Birmingham, Oxford, Ross on Wye, Clifton.
5	Richmond (Kew Obs.), Marlborough, Margate, Wisley, Porton, Tunbridge Wells, Dungeness, St. Leonards, Southampton, Ventnor.	Richmond (Kew Obs.), Marlborough, Margate, Wisley, Worthing, Tunbridge Wells, Folkestone, St. Leonards, Southampton, Ventnor.
6	Ford, Glasgow (or Renfrew), Rothesay, Kilmarnock, Colmonell, Dumfries, Douglas.	Glasgow, Douglas (to April).
7	Aspatia, Newton Rigg, Stonyhurst, Blackpool-Southport,* Liverpool, Hawarden Br., Manchester (Whit. Pk.), Llandudno, Holyhead.	Hoylake, Aspatia, Newton Rigg, Stonyhurst, Blackpool-Southport,* Llandudno, Aberdovey.
8	Rhayader, Pembroke, Cardiff, Bath, Shaftesbury, Arlington, Cullompton, Portland, Plymouth, Falmouth.	Aberystwyth, Rhayader, Pembroke, Bath, Cullompton, Plymouth, Falmouth, Newquay.
9	Malin Hd., Blacksod Point, Markree Castle, Birr Castle, Armagh, Donaghadee.	Markree Castle, Armagh.
10	Dublin (City), Kilkenny, Waterford, Birr Castle, Foynes, Cahir (to May), Killarney, Cahirciveen (Valencia Obs.), Roches Pt.	Dublin (Phoenix Park), Birr Castle, Cahirciveen (Valencia Obs.), Ballinacurra.
11	Scilly, Jersey, Guernsey.	Scilly, Jersey, Guernsey.

* The average of Blackpool and Southport readings is taken as if referring to a single station.

LIST OF STATIONS.

A list of the climatological stations of Tables III and IV and of the anemograph stations of Table II is given below. For additional information regarding the anemograph stations, reference should be made to the Annual Summary of the Monthly Weather Report.

Biggin Hill, Isle of Grain and Pulham, stations staffed by the Meteorological Office, are new to the Monthly Weather Report as are Belvedere, Deal and Newtonbarry. Inchkeith takes the place of Leith as a telegraphic station.

In Guernsey, observations at Villa Carey ceased on the death of Dr. Carey, and subsequently the Brooklyn station was transferred to Grange.

Observations at Clongowes Wood and at Lowestoft, which had been interrupted, were resumed during the year.

The cessation of reports from Brooklyn, Cahir, Glasgow Observatory, Leith and Villa Carey has been mentioned. The list also includes the following other stations which lapsed during the year:—Dalkeith, Howden, Manchester (Alex. Park), Midhurst, Princetown, Rousdon, and Woking. The station at Howden had been maintained in connection with the Airship Base. Reports from Rousdon, the observatory established by the late Sir C. E. Peek, Bart., had been received by the Meteorological Office since 1886; the observatory was closed on the death of the Observer, Mr. Charles Grover, in February, 1921.

Wind Summaries for two official stations, Isle of Grain and Baldonnell appeared in Table II for the first time in the January and September Reports respectively.

In Table IIIa, the sunshine record from the Botanic Gardens, Regent's Park, is now included; the corresponding information from Camden Square which used to be published in Table III is no longer given on account of the defective exposure of the sunshine recorder. Plumstead was reinstated in Table III on the resumption of the record, but the stations at Port Talbot and Richmond Park have been given up.

In the Tables of the Monthly Weather Report and also in Circular 001-J, the stations are arranged according to Districts and Counties. In the list printed herewith the alphabetical order is adopted. The latitude and longitude of each station are given, but not the height, as that is shown in the monthly issues.

The publications for which the returns are prepared are indicated by the following letters:—

- | | |
|--|--|
| D. Daily Weather Report. Full return. | μ. Monthly Weather Report. Wind velocity. |
| d. Daily Weather Report. Abridged return. | m. Monthly Weather Report. Sunshine only. |
| W. Weekly Weather Report. Temperature, rainfall, &c. | S. Daily Readings at Stations of First and Second Orders. |
| w. Weekly Weather Report. Abridged return. | s. Daily Readings Supplement. (Summary of 11 monthly reports.) |
| ω. Weekly Weather Report. Wind velocity. | J. Geophysical Journal. Daily Readings. |
| W. Registrar-General's Weekly Summary. | c. Geophysical Journal. Wind components. |
| M. Monthly Weather Report. Table III (Temperature extremes, rainfall and weather); and Table IV (Pressure, humidity, &c.). | k. Geophysical Journal. Upper air. |
| m. Monthly Weather Report. Table III, not Table IV. | H. Hourly Values. |
- Stations reporting rainfall only were included in previous lists, being indicated by the letter "a."

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

- The Book of Normals of Meteorological Elements for the British Isles for Periods ending 1915, Section I. Monthly averages of mean maximum, mean minimum and mean temperature, of rainfall and of bright sunshine for the 35 years 1881-1915. Section II.—Weekly, Monthly, Quarterly, and Seasonal Normals for Districts. Section III.—Maps of the normal Distribution of Temperature, Rainfall and Sunshine for the British Isles.
- 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.
- "Temperature Tables of the British Islands," 1871-1900. Monthly averages 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. These tables give more detailed information than will be found in the Book of Normals.
- "Rainfall tables of the British Islands," 1866-1890. Official publications, Nos. 47 and 114. Monthly averages of rainfall.
- "Hourly Values from Autographic Records," Geophysical Section.

Royal Observatory, Greenwich; Radcliffe Observatory, Oxford.—Notes with regard to the statistics supplied by these Observatories will be found on page x.

STANDARDS OF TIME.

The Summer Time Act of 1916 empowered the Government to re-introduce Summer Time each year by Order in Council without further legislation.

In 1921 the period adopted was from March to October. Between these dates the public clocks were one hour in advance of Greenwich Mean Time. Observers were recommended to make their observations at the same hours by Greenwich Time throughout the year. At the majority of stations this recommendation was adopted, but in a few cases circumstances made it necessary to adhere to the same hour by civil time.

The actual hours of observation are given in Table III of the monthly issues. A distinction is made between Table III which is a summary of records for the whole day and Table IV which is devoted to observations at fixed hours. A change in the time of observations for the summer months excludes a station from Table IV but does not affect its position in Table III.

The stations at which the hours of observation are referred to Local Mean Time are given in a footnote following Table III in each monthly issue. Several Irish stations are included, but when the use of Dublin Time for civil purposes was discontinued in Ireland from October 1st, 1916, other stations advanced their observations by 25 minutes and adopted Greenwich Time.

SEA-TEMPERATURE.

Returns of sea-temperatures are received by the Meteorological Office from certain lightships and coast stations. From 1907 to 1915 values were printed in the Weekly Weather Report, and from 1916 to 1919 summaries appeared with the Introduction to the Monthly Weather Report. The system of dealing with the observations, some of which have been open to criticism as not giving the temperature of the open sea, is being reconstituted, and no table is published for the year 1921. The average temperatures of the seas round the British Isles are shown by large figures on the maps in the monthly issues of this report.

V
LIST OF STATIONS.*

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Aberdeen ...	1	Aberdeen ...	57 10	2 6W.	D,W,W ¹ , _ω ,M,Ss, _μ	a, c, d, e.	Professor C. Niven, F.R.S., and G. A. Clarke, for M.O.
Aberdovey ...	7	Merioneth ...	52 33	4 4W.	W,m.	a.	Richard Williams, for Towyn U.D.C.
Aberystwyth ...	8	Cardigan ...	52 25	4 4W.	d,W,m.	a.	A. Thomas, M.D., for the Corporation.
Addington ...	5	Surrey ...	51 22	0 4W.	M.	—	Borough Engineer, Croydon.
Aldershot ...	5	Hampshire ...	51 15	0 46W.	m.	—	G. W. Routley, M.D.
Alnwick Castle ...	2	Northumberland ...	55 25	1 43W.	W,m, _ω , _μ .	a, d.	Robert Kyle, for the Duke of Northumberland, K.G.
Ampleforth ...	2	Yorkshire ...	54 12	1 5W.	m.	a.	Rev. H. de Normanville, O.S.B.
Arbroath ...	1	Forfar ...	56 33	2 35W.	m.	d.	J. Campbell.
Ardingly ...	5	Sussex ...	51 4	0 5W.	m.	—	G. W. E. Loder, M.A., D.L.
Ardnadam ...	6	Argyll ...	55 59	4 56W.	m.	—	Rev. J. Cairns Mitchell, B.D.
Ardtornish ...	6	Argyll ...	56 34	5 45W.	M.	—	W. D. Besant, for G. Craig Seller.
Arlington Court ...	8	Devonshire ...	51 8	3 58W.	W,m.	a, c, d.	Miss Chichester.
Armagh ...	9	Armagh ...	54 21	6 39W.	W,M,S,s	a, c, d.	The Director, Armagh Observatory for M.O.
Ashburton ...	8	Devonshire ...	50 32	3 46W.	m.	a.	J. S. Amery.
Aspatia ...	7	Cumberland ...	54 46	3 13W.	W,M.	a.	Silloth and District Joint Water Board.
Baldonnell ...	10	Dublin ...	53 16	6 23W.	D.M. _μ .	—	The Meteorologist-in-charge for M.O.
Ballinacurra ...	10	Cork ...	51 52	8 10W.	w,m.	a.	John H. Bennett.
Balmakewan ...	1	Kincardine ...	56 48	2 33W.	_μ .	—	William Lowe, B.Sc.
Balmoral ...	1	Aberdeen ...	57 2	3 12W.	W,M.	a.	Mr. R. F. Chalmers.
Baltasound ...	0	Shetlands ...	60 44	0 48W.	m.	—	T. Edmonston Saxby, F.R.F.P.S. (Glas.), J.P.
Banff ...	1	Banff ...	57 40	2 31W.	d,M.	—	A. J. Leigh, B.Sc., for Dr. E. I. Spriggs.
Bangour ...	1	Linlithgow ...	55 55	3 33W.	M.	—	D. Hendry, for John Keay, M.D.
Basingstoke ...	5	Hampshire ...	51 16	1 6W.	m.	d.	The Head Master, Queen's School.
Bath ...	8	Somerset ...	51 23	2 21W.	W,M.	a.	Medical Officer of Health.
Bellingham ...	2	Northumberland ...	55 13	2 18W.	m.	—	A. Jackson, for Sir C. Morrison Bell, Bart.
Belper (H. S. School) ...	4	Derby ...	53 1	1 29W.	m.	—	W. W. Tunnicliffe, B.Sc., F.C.S.
Belper (Quarry Bank) ...	4	Derby ...	53 2	1 29W.	M.	a.	John Hunter.
Belvedere ...	5	Kent ...	51 29	0 9E.	M.	—	Callendar Cable and Construction Co., Ltd.
Belvoir Castle ...	4	Leicester ...	52 54	0 47W.	M.	a, d.	David Gibson, for the Duke of Rutland, K.G.
Bennington ...	3	Hertford ...	51 54	0 5W.	M.	a, c.	Miss Parker and Miss A. H. Parker.
Benson ...	4	Oxford ...	51 37	1 7W.	D, _ω ,M,k, _μ .	—	W. H. Dines, F.R.S.
Berkhamsted ...	3	Hertford ...	51 45	0 34W.	m.	a, c.	Edward T. Browne.
Bexley Heath ...	5	Kent ...	51 28	0 8E.	m.	—	G. B. Hamlin.
Bidston ...	7	Cheshire ...	53 24	3 4W.	D,W,M,W ¹ .	a, d.	See Liverpool Observatory.
Biggin Hill ...	5	Kent ...	51 19	0 12E.	M.	—	Meteorologist-in-charge for M.O.
Birm'gh'm (Edgbaston) ...	4	Warwick ...	52 28	1 53W.	W,M,S,W ¹ .	a, d.	The Curator, for the Midland Institute.
Birr Castle ...	10	King's Co. ...	53 6	7 55W.	D,W,M.	a, b, c, d.	T. Fegan, for the Earl of Rosse.
Blackpool ...	7	Lancashire ...	53 49	3 3W.	W,M.	a.	Medical Officer of Health.
Blacksd Point ...	9	Mayo ...	54 6	10 4W.	D,W,M.	a.	The Chief Officer, Coastguard, for M.O.
Blundellsands ...	7	Lancashire ...	53 29	3 2W.	m.	—	Hugh Montgomery.
Bognor ...	5	Sussex ...	50 47	0 40W.	m.	a.	A. G. Thompson, for the Bognor Climatological Society.
Bolton ...	7	Lancashire ...	53 35	2 27W.	m.	—	Thomas Midgley.
Bournemouth ...	5	Hampshire ...	50 43	1 53W.	d,M.	a.	C. Dales, for the Corporation.
Bradford ...	4	Yorkshire ...	53 49	1 46W.	m,W ¹ .	d.	H. Lander, for the Corporation.
Braemar ...	1	Aberdeen ...	57 0	3 24W.	M.	a, c, d.	A. M. Shirran.
Bridlington ...	2	Yorkshire ...	54 5	0 13W.	m.	—	The Head Master.
Brighton ...	5	Sussex ...	50 49	0 8W.	d, _ω ,M,W ¹ , _μ .	a, d.	Medical Officer of Health.
Broadstairs ...	5	Kent ...	51 21	1 26E.	m ₀	a.	The Surveyor for Urban District Council.
Bromyard ...	4	Hereford ...	52 11	2 30W.	m.	—	T. V. Philpott, M.A.
Bucklebury Place ...	5	Berkshire ...	51 26	1 14W.	m.	—	J. E. Henshall, for A. W. Sutton.
Bude ...	8	Cornwall ...	50 50	4 33W.	d,m.	d.	Karl Durston.
Bunhill Row ...	Lon.	London ...	51 31	0 5W.	d,m ₀	a.	T. De la Rue & Co., Ltd.
Burnley ...	7	Lancashire ...	53 48	2 15W.	m,W ¹ .	d.	Medical Officer of Health.
Buxton ...	4	Derby ...	53 16	1 55W.	d,W,m.	a, b, d.	W. Pilkington.
Bungay (Flixton) ...	3	Suffolk ...	52 25	1 23E.	m.	—	Sir Shafto Adair, Bart.
Cahir ...	10	Tipperary ...	52 22	7 56W.	W,m.	a.	R. W. Smith, Jun.
Cahirciveen ...	10	Kerry ...	51 56	10 15W.	D,W, _ω ,M,s,H,J, _μ .	a, c, e.	L. H. G. Dines, M.A., Superintendent of the Observatory, for the M.O.
Calshot ...	5	Hampshire ...	50 49	1 19W.	D.M. _μ .	—	The Meteorologist-in-charge for M.O.
Cambridge ...	3	Cambridge ...	52 12	0 8E.	W,M,S.	a, d.	The Curator, Botanic Gardens.
Camden Square ...	Lon.	London ...	51 33	0 8W.	d,W,m.	a, d.	British Rainfall Organization.
Canterbury ...	5	Kent ...	51 17	1 5E.	m.	—	A. Lander.
Cardiff ...	8	Glamorgan ...	51 28	3 10W.	W,M,W ¹ .	a, d.	E. Walford, M.D., for the Corporation.
Cardross ...	6	Dumbarton ...	55 58	4 38W.	m.	—	Claud. A. Allan.
Cargen ...	6	Kirkcudbright ...	55 2	3 37W.	m.	a, d.	Col. R. F. Dudgeon, C.B., D.L.
Carnoustie ...	1	Forfar ...	56 30	2 42W.	m.	—	The Burgh Surveyor.
Castlebay ...	0	Hebrides ...	56 57	7 29W.	D,W,M,s.	—	J. Smith, for M.O.
Cheadle ...	4	Stafford ...	52 58	1 57W.	W,m.	a, b, c.	Col. B. H. Philips, C.M.G.
Chelmsford ...	3	Essex ...	51 44	0 27E.	m.	—	R. M. Wilson, B.Sc.
Cheltenham ...	4	Gloucester ...	51 54	2 3W.	M.	a, c.	A. C. Saxby, for the Corporation.
Chopwellwood ...	2	Durham ...	54 55	1 47W.	m.	—	R. W. Hunter.
Clacton-on-Sea ...	3	Essex ...	51 47	1 9E.	D,W,M.	a.	A. W. Shadick, for the Urban District Council.

* The rainfall stations of Table V are not included in this list.
British Rainfall.

For particulars of these, reference should be made to the volumes of

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Clifton	4	Gloucester ...	51 28	2 37W.	W,m,W ¹ .	a, d.	The Principal, Clifton College.
Clongowes Wood ...	10	Kildare ...	53 19	6 41W.	M.	—	Rev. K. J. Ward, S. J.
Cockle Park	2	Northumberland	55 13	1 41W.	w,M.	a.	The Meteorological Observer for the North- umberland County Council.
Colmonell	6	Ayr ...	55 8	4 53W.	W,M.	a.	A. Ogg, for J. W. McConnel.
Colwyn Bay	7	Carnarvon ...	53 16	3 44W.	d,m.	—	Borough Surveyor.
Copdock	3	Suffolk ...	52 2	1 5 E.	M.	—	F. L. Bland.
Coventry	4	Warwick ...	52 24	1 20W.	M.	a.	Medical Officer of Health.
Cranwell	2	Lincolnshire ...	53 2	0 31W.	D,M,μ.	—	The Meteorologist-in-charge for M.O.
Crathes	1	Kincardine ...	57 3	2 25W.	w,m.	a.	William S. Kemp.
Crieff	1	Perth ...	56 22	3 50W.	W,M.	a.	George Reid, for Dr. Gordon Meikle.
Cromer	3	Norfolk ...	52 56	1 17 E.	W,M.	a.	The Clerk to the Urban District Council.
Croydon (Addington)...	5	Surrey ...	51 22	0 4W.	M.	—	Borough Engineer, Croydon.
Croydon (Aerodrome)...	5	Surrey ...	51 21	0 7W.	D,M.	—	The Meteorologist-in-charge for M.O.
Cullompton	8	Devonshire ...	50 51	3 23W.	W,M.	a, c.	Murray T. Foster.
Cupar	1	Fife ...	56 19	3 1W.	m.	—	The Medical Superintendent, Fife and Kinross Asylum.
Dalkeith	1	Edinburgh ...	55 54	3 4W.	m.	—	J. Whytock, for the Duke of Buccleuch, K.T.
Darwen... ..	7	Lancashire ...	53 41	2 28W.	M.	—	Medical Officer of Health.
Deal	5	Kent ...	51 13	1 24 E.	m.	—	The Town Clerk, Municipal Offices.
Deerness	0	Orkney ...	58 56	2 45W.	W,ω,M,S,c,μ.	a, b, c.	W. Delday.
Donaghadee	9	Down ...	54 38	5 32W.	D,W,M.	a, c, d.	Coastguard, for M.O.
Dorchester	8	Dorset ...	50 43	2 27W.	m.	—	Borough Engineer.
Douglas, I. of Man ...	6	Isle of Man ...	54 10	4 28W.	W,M,S.	a, c, d.	The Borough Surveyor.
Drumlanrig	6	Dumfries ...	55 18	3 48W.	a.	a, d.	R. Stuart, for the Duke of Buccleuch, K.T.
Dublin:—							
City	10	Dublin... ..	53 20	6 15W.	W,M.	a, b, c, d.	Sir John Moore, M.D., D.Sc.
Glasnevin(B.O.I.Gnds:	10	Dublin... ..	53 23	6 16W.	M.	a, c, d.	Sir F. W. Moore, M.A., M.R.I.A.
Phoenix Park	10	Dublin... ..	53 22	6 21W.	w,M,S.	a, c.	The Superintendent, Ordnance Survey Office.
Ranelagh	10	Dublin... ..	53 19	6 14W.	M.	—	H. Fayle.
Trin. Coll.	10	Dublin... ..	53 21	6 16W.	w,M.	a.	Prof. Thrift.
Dumbarton	6	Dumbarton ...	55 56	4 34W.	m.	—	Messrs. William Denny and Brothers.
Dumfries	6	Dumfries ...	55 4	3 36W.	W,M.	a.	C. C. Easterbrook, M.D., Crichton Royal Institution.
Dundee (Coll. Garden)	1	Forfar ...	56 29	3 0W.	W,m.	—	James Malloch.
„ (E. Necropolis)	1	Forfar ...	56 28	2 56W.	W ¹ M.	a, c, d.	Alex. Macrae.
Dunfanaghy	9	Donegal ...	55 11	7 58W.	m.	—	J. J. MacGrath, L.R.C.P.
Dungavel	6	Lanark ...	55 37	4 8W.	m.	—	A. K. Foulis, for the Duke of Hamilton and Brandon.
Dungeness	5	Kent ...	50 55	0 58 E.	D,W,M.	a, c.	Principal Lightkeeper for M.O.
Dunrobin Castle ...	0	Sutherland ...	57 59	3 56W.	m.	a, c, d.	W. F. Game, for the Duke of Sutherland, K.G.
Durham	2	Durham ...	54 46	1 35W.	W,m.	a, b, c, d.	A. Robinson, D.C.L.
Dyce	1	Aberdeen ...	57 13	2 10W.	ω,μ.	—	James E. Crombie, LL.D.
Eastbourne	5	Sussex ...	50 46	0 17 E.	d,M.	a, d.	The Medical Officer of Health.
Edinburgh:—							
Blackford Hill	1	Edinburgh ...	55 55	3 11W.	W ¹ W,M,ω,μ.	a.	The Astronomer Royal for Scotland.
Liberton	1	Edinburgh ...	55 55	3 10W.	m.	—	The Director, Edinburgh and East of Scotland College of Agriculture.
The University	1	Edinburgh ...	55 57	3 11W.	m.	a.	Professor T. Hudson Beare, F.R.S.E.
Egremont	7	Cumberland ...	54 29	3 30W.	m.	—	J. Sherwen.
Enfield	Lon.	Middlesex ...	51 40	0 10W.	M.	d.	W. P. Warren, D.P.H., for the Urban District Council.
Eskdalemuir	6	Dumfries ...	55 19	3 12W.	D,W,ω,M,s,J,k,μ.	—	A. Crichton-Mitchell, D.Sc., F.R.S.E., Supt. of the Observatory, for M.O.
Exmouth	8	Devonshire ...	50 36	3 24W.	m.	—	Samuel Hutton.
Falmouth	8	Cornwall ...	50 9	5 4W.	D,W,M,s.	a, c, d.	The Meteorological Office.
Felixstowe Beach ...	3	Suffolk ...	51 57	1 20 E.	d,m.	a.	Montague Humphrey, for the Urban District Council.
„ Aerodrome	3	Suffolk ...	51 56	1 19 E.	D,M,μ.	—	The Meteorologist-in-charge for M.O.
Fleetwood	7	Lancashire ...	53 56	3 1W.	ω,μ.	—	The Urban District Council for M.O.
Folkestone	5	Kent ...	51 5	1 11 E.	m.	—	The Borough Engineer.
Ford	6	Argyll ...	56 13	5 28W.	W,m.	—	Angus Graham.
Fort Augustus	0	Inverness ...	57 8	4 40W.	W,m.	a, c.	Rev. W. B. Griffin.
Fortrose	0	Ross and Cromar- ty ...	57 35	4 8W.	m.	—	Archd. Thom, M.A.
Fort William	0	Inverness ...	56 49	5 7W.	W,M,S.	a, c, d.	W. T. Kilgour.
Fowey	8	Cornwall ...	50 21	4 38W.	m.	—	The Town Clerk.
Foynes	10	Limerick ...	52 37	9 7W.	W,m.	a, c.	John Little, for Lord Monteagle, K.P.
Fulbeck	2	Lincolnshire ...	53 3	0 37W.	W,m.	a.	Col. W. V. R. King-Fane.
Garforth	4	Yorkshire ...	53 48	1 23W.	M.	a.	Prof. Seton, B.Sc., for the University of Leeds.
Geldeston	3	Norfolk ...	52 28	1 31 E.	W,M.	a, c, d.	Miss E. Dowson.
Gibraltar	—	—	36 6	5 21W.	M.	—	Chief Medical Officer.
Glasgow Observatory...	6	Lanark ...	55 53	4 18W.	W ¹ W,M	a, c, d.	James Connell.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Glen	1	Peebles ...	55 35	3 7W.	m.	—	Alex. Black, for Lord Glenconner.
Glencarron	0	Ross & Cromarty	57 30	5 14W.	W,M.	a, c.	D. D. Munro, for M.O.
Gordon Castle	1	Elgin	57 37	3 5W.	W,M.	a, c, d.	C. Webster for the Duke of Richmond and Gordon, K.G.
Gorleston	3	Norfolk ...	52 35	1 43 E.	D,M,W, ω , μ .	a.	Coastguard for M.O.
Grayshott	5	Hampshire ...	51 7	0 46W.	m.	a.	Mrs. Charlotte Lyndon.
Greenock	6	Renfrew ...	55 56	4 46W.	W ¹ ,m.	a, d.	J. MacAlister, A.M.Inst.C.E.
Greenwich	Lon.	London ...	51 28	0 0	d,W,M,W ¹ .	a, c, d.	The Astronomer Royal.
Guernsey (Brooklyn) ...	11	Channel Islands	49 27	2 31W.	w,M.	a, c.	Adolphus Collenette.
" (Grange)	11	English Channel	49 26	2 30W.	M.W.	—	The States Meteorological Committee.
" (V. Carey)	11	Channel Islands	49 27	2 32W.	W,m.	a, d.	F. E. Carey, M.D.
Gwynnyfed Park	8	Brecknock ...	52 5	3 15W.	m.	a.	J. Slade, for J. J. Crosfield.
Halstead	3	Essex	51 57	0 38 E.	m.	—	Lieut. E. T. Adams, R.N.V.R., F.R.A.S.
Hampstead	Lon.	London ...	51 33	0 11W.	d,W,M.	—	E. L. Hawke, B.A., for the Hampstead Scientific Society.
Harrogate	4	Yorkshire ...	54 0	1 36W.	d,W,m.	a.	C. E. Rivers, for the Corporation.
Haverfordwest	8	Pembroke ...	51 48	4 58W.	m.	a, d.	J. W. Phillips.
Hawarden Bridge	7	Cheshire ...	53 12	3 1W.	W,m.	a.	John Summers and Sons, Ltd.
Helensburgh	6	Dumbarton ...	56 0	4 45W.	m.	d.	The Burgh Surveyor.
Hemel Hempstead	3	Hertford ...	51 46	0 27W.	M.	d.	Elliott Kitchener, M.A.
Hereford (Belm't Abb'y)	4	Hereford ...	52 5	2 45W.	W,m.	a.	The Prior, Belmont Abbey.
Hitchin	3	Hertford ...	51 57	0 16W.	m.	—	Alfred Latchmore.
Hosdock (Worksop) ...	4	Nottingham ...	53 22	1 5W.	W,M.	a, d.	H. Mellish, J.P.
Holton Heath	8	Dorset	50 43	2 5W.	M.	—	The Supt., R.N. Cordite Factory.
Holyhead	7	Anglesey ...	53 18	4 39W.	D,W, ω ,M,c, μ .	a, c, d.	F. M. Cotton, C.E., for M.O.
Hove	5	Sussex	50 47	0 10W.	m ₀ .	—	Medical Officer of Health.
Howden	2	Yorkshire ...	53 47	0 45W.	D,M, μ .	—	The Meteorologist-in-charge for M.O.
Hoylelake	7	Cheshire ...	53 23	3 12W.	w,m.	a.	R. W. Fraser, for the Urban District Council.
Huddersfield	4	Yorkshire ...	53 38	1 45W.	M,W ¹ ,s.	—	J. Firth, Registrar, for the Corporation.
Hull	2	Yorkshire ...	53 45	0 16W.	M,W ¹ .	a, d.	H. B. Witty, for the Corporation.
Hutton	7	Lancashire ...	53 44	2 40W.	m.	—	The Director of Education, for the Lancashire County Council.
Ilfracombe	8	Devonshire ...	51 12	4 8W.	d,m.	a, d.	Borough Surveyor.
Inchkeith	1	Fife	56 3	3 8W.	D,W,M.	—	Officer Commanding, Leith Barracks, Leith.
Inverness	0	Inverness ...	57 28	4 13W.	M.	a.	Miss. V. M. Galbraith.
Isle of Grain	5	Kent	51 27	0 44E.	M, μ .	—	Meteorologist-in-charge for M.O.
Jersey (St. Aubins) ...	11	Channel Islands	49 12	2 11W.	D,W,M.	a, c, d.	W. Fisher, for M.O.
" (St. Heliers)	11	Channel Islands	49 11	2 6W.	d,m ₀ .	a.	Signal Officer, Fort Regent for M.O.
" (St. Louis Obs.) ...	11	Channel Islands	49 12	2 6W.	M.J.	a.	Rev. M. Dechevrens, S.J.
Kensington Palace ...	Lon.	London ...	51 31	0 10W.	d,M.	—	H. M. Office of Works for M.O.
Kelso (Broomlands) ...	1	Roxburgh ...	55 36	2 25W.	m.	a.	J. C. Scott.
Keswick	7	Cumberland ...	54 36	3 9W.	m.	—	Henry Swinburn.
Kettins	1	Forfar	56 33	3 15W.	m.	—	W. Andrew.
Kew Observatory	—	—	—	—	—	—	See Richmond.
Kilkenny	10	Kilkenny ...	52 39	7 14W.	W,m.	a, c.	E. Sutton and Mr. Horton, for the Earl of Essory.
Killarney	10	Kerry	52 4	9 30W.	W,m.	a, c.	E. W. Griffin, M.D.
Killerton	8	Devonshire ...	50 44	3 32W.	M.	—	John Wilson, for Sir T. D. Acland, Bart.
Kilmarnock	6	Ayr	55 37	4 36W.	W,m.	a.	Prof. R. A. Berry, for the West of Scotland Agricultural College.
Kingston-on-Soar	4	Nottingham ...	52 51	1 14W.	m.	—	The Principal, The Midland Agricultural and Dairy College.
Kingstown Harbour ...	10	Dublin	53 17	6 8W.	ω , μ .	—	Captain A. F. Holmes, R.N., for the Office of Works.
Kirkcaldy	1	Fife	56 7	3 9W.	m.	—	F. Braid, for the Town Council.
Kirkwall	0	Orkney	58 59	2 57W.	m.	—	Rev. John S. Begg, M.A.
Lancaster	7	Lancashire ...	54 3	2 47W.	m.	d.	Neville Holden, F.R.A.S., for the Storey Institute.
Larkhill	5	Wilts	51 11	1 48W.	M, ω , μ .	—	The Meteorologist-in-charge for M.O.
Leadhills	6	Lanark	55 26	3 45W.	m.	—	J. M'Farlane, J.P.
Leamington Spa	4	Warwick ...	52 18	1 30W.	d,m.	—	Medical Officer of Health.
Lednathie	1	Forfar	56 45	3 7W.	m.	—	W. G. Lindsay, for J. Stormonth Darling.
Leith	1	Edinburgh ...	55 59	3 13W.	D,W,M.	a, c, d.	James Dobbie, for M.O.
Lenton Fields	4	Nottingham ...	52 56	1 13W.	m.	—	The Observer, Climatological Station.
Lerwick	0	Shetlands ...	60 9	1 11W.	D,W,M,s.	a, c.	Coastguard for M.O.
Leyland	7	Lancashire ...	53 41	2 42W.	M.	—	H. Nowell Harrington.
Lincoln	2	Lincolnshire ...	53 14	0 33W.	W,M.	a, d.	The Curator, City and County Museum.
Lisburn	9	Antrim	54 31	6 3W.	m.	—	John Ridges, M.A., and J. Woolman.
Littlehampton	5	Sussex	50 48	0 32W.	d,m.	d.	Town Clerk for the District Council.
Little Massingham ...	3	Norfolk	52 47	0 39E.	W,M.	a.	Rev. Philip H. L. Brereton.
Liverpool Obs.	7	Cheshire	53 24	3 4W.	D,W,M,W ¹ .	a, c, d.	W. E. Plummer, M.A., F.R.A.S., for the Mersey Docks and Harbour Board.
Llandudno	7	Carnarvon ...	53 20	3 50W.	d,W,M.	a, b, c, d.	William Little, for the Corporation.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Logie Coldstone ...	1	Aberdeen ...	57 8	2 55W.	m.	a, d.	J. B. Anderson.
London :—							
Camden Square ...	Lon.	London ...	51 33	0 8W.	d,W,m.	a, d.	British Rainfall Organization.
East Ham ...	Lon.	London ...	51 32	0 4E.	m.	—	J. Banks for the Corporation.
Greenwich ...	Lon.	London ...	51 28	0 0W.	d,W,M,W ¹ .	a, c, d.	The Astronomer Royal.
Hampstead ...	Lon.	London ...	51 34	0 11W.	d,W,M.	—	E. L. Hawke, B.A., for the Hampstead Scientific Society.
Kensington Palace ...	Lon.	London ...	51 31	0 10W.	d,M.	—	H.M. Office of Works for M.O.
Regent's Park ...	5	London ...	51 31	0 9W.	m.	—	Mr. North for the Royal Botanic Society
Westminster ...	Lon.	London ...	51 30	0 8W.	d,W,M.	a.	H.M. Office of Works for M.O.
(St. James's Park)							
Westminster ...	Lon.	London ...	51 30	0 8W.	†	a.	W. Clover, for Rev. H. B. Workman, D. Lit.
(Training College)							
Long Ashton ...	8	Somerset ...	51 26	2 40W.	m.	—	Agricultural and Horticultural Research Station.
Lowestoft ...	3	Suffolk ...	52 29	1 45E.	M,d.	a, d.	C. W. Edwards, for the Corporation.
Luton ...	3	Bedford ...	51 54	0 25W.	m.	—	The Borough Engineer.
Lyme Regis ...	8	Dorset ...	50 44	2 57W.	w,m,μ.	—	Henry Ellis.
Lympne ...	5	Kent ...	51 5	1 1E.	D.M.	—	Meteorologist-in-charge for M.O.
Macclesfield ...	7	Cheshire ...	53 16	2 8W.	m.	a.	S. H. Moss.
Malin Head ...	9	Donegal ...	55 23	7 24W.	D,W,M.	a, c.	Coastguard, for M.O.
Mallaranny ...	9	Mayo ...	53 55	9 47W.	m.	—	M. Forbes (Station Master), for the M.G.W Railway.
Malmesbury ...	5	Wilts ...	51 35	2 5W.	M.	—	C. E. Bertodano.
Malta ...	—		35 53	14 30E.	m.	—	Dr. Thomas Agius, Meteorological Officer.
Malvern ...	4	Worcester ...	52 8	2 18W.	d,w,m.	d.	E. W. Harris.
Manchester (City) ...	7	Lancashire ...	53 29	2 13W.	w.M.	a.	Medical Officer of Health.
" (Alex. Park)	7	Lancashire ...	53 26	2 15W.	D,M.	—	The Meteorologist-in-charge for M.O.
Marchmont ...	1	Berwick ...	55 44	2 25W.	W,M.	a, c, d.	J. A. Wood, for Sir J. H. P. Hume-Campbell, Bart.
Margate ...	5	Kent ...	51 24	1 24E.	d,W,m	a, c, d.	C. J. Pemble, for the Corporation.
Markree Castle ...	9	Sligo ...	54 11	8 27W.	W,M.	a, b, c.	J. R. Armstrong, for Captain Cooper.
Marlborough ...	5	Wilts ...	51 25	1 44W.	W,m.	a, c.	A. Robson, and Meddows Taylor.
Mayfield ...	4	Stafford ...	53 0	1 46W.	m.	—	G.C. Lawson.
Meltham ...	4	Yorkshire ...	53 36	1 50W.	m.	—	C. L. Brook.
Midhurst ...	5	Sussex ...	50 59	0 44W.	m.	—	T. L. Evans, M.R.C.S.
Montrose ...	1	Forfar ...	56 42	2 28W.	d,m.	d.	S. L. Christie, C.E. Burgh Surveyor.
Morecambe ...	7	Lancashire ...	54 4	2 52W.	d,m.	—	H. H. Wright, and T. B. Lamb, for the Corporation.
Mountmellick ...	10	Queen's Co. ...	53 7	7 20W.	m.	—	W. A. Robinson.
Mursley ...	4	Buckingham ...	51 59	0 49W.	m.	—	Lady Beecham.
Nairn ...	1	Nairn ...	57 36	3 52W.	D,W,M.	a, c, d.	Miss Penny for M.O.
Newcastle ...	10	Wicklow ...	53 5	6 6W.	m.	—	Dr. F. O'B. Kennedy.
New Malden ...	5	Surrey ...	51 24	0 15W.	m.	—	W. J. Carter.
Newport ...	8	Monmouth ...	51 36	3 0W.	m.	—	The Manager, Newport Water Department.
Newquay ...	8	Cornwall ...	50 25	5 4W.	d,W,M.	a, d.	C. C. Vigurs, B. A., M.D., for Urban District Council.
Newton Rigg ...	7	Cumberland ...	54 40	2 49W.	W,m.	a.	The Principal of the Experimental Farm, for the Cumberland County Council.
Newtownbarry ...	10	Wexford ...	52 39	6 39W.	m.	—	G. T. Lewis.
Newtownforbes ...	9	Longford ...	53 46	7 51W.	m.	—	J. A. Boyle, for the Earl of Granard.
Norwich (Eaton) ...	3	Norfolk ...	52 37	1 16E.	W,m,W ¹ .	a, d.	A. W. Preston.
" (Ipswich Rd.)	3	Norfolk ...	52 37	1 17E.	w,m.	—	J. H. Willis.
Nottingham ...	4	Nottingham ...	52 56	1 9W.	D,W,M,W ¹ .	a, d.	Arthur Brown, M.Inst. C.E., for the Corporation.
Oban ...	6	Argyll ...	56 25	5 30W.	d,M.	—	The Burgh Surveyor.
Oundle (School) ...	4	Northampton ...	52 29	0 28W.	m.	—	The Head Master.
Over Court Park ...	4	Gloucester ...	51 32	2 35W.	m.	—	F. Delbridge.
Oxford ...	4	Oxford ...	51 46	1 16W.	W,M.	a, c, d.	The Radcliffe Observer.
Paignton ...	8	Devonshire ...	50 26	3 34W.	d,m.	—	C. Bellinger, for Town Council.
Paisley ...	6	Renfrew ...	55 51	4 26W.	W ¹ ,w,M,μ.	a.	D. Maclean, F.R.A.S., for Coats Observatory Committee.
Pendennis Castle ...	8	Cornwall ...	50 8	5 3W.	w,μ.	—	Coastguard for M.O.
Penzance ...	8	Cornwall ...	50 7	5 32W.	m.	d.	C. H. Benn, for District Council.
Perth ...	1	Perth ...	56 24	3 27W.	W ¹ ,M	a.	J. Ritchie, Jn.
Peterborough (Eye) ...	4	Northampton ...	52 36	0 11W.	m.	—	S. M. Egar.
Plumstead ...	5	London ...	51 29	0 5E.	m.	—	Mr. J. G. Waller.
Plymouth (The Hoe) ...	8	Devonshire ...	50 22	4 8W.	W,w,M,W ¹ ,μ.	a, c, d.	H. Victor Prigg, A.M.I.C.E., for the Corporation.
" (Cattewater) ...	8	Devonshire ...	50 22	4 8W.	D.M.	—	The Meteorologist-in-charge for M.O.
Poltalloch ...	6	Argyll ...	56 8	5 30W.	a.	a, c, d.	D. S. Melville, for Col. Malcolm.
Portland Bill ...	8	Dorset ...	50 32	2 27W.	D,W,M.	a.	Lightkeeper, for M.O.
Porton ...	5	Wilts ...	51 7	1 42W.	W,M.	—	Supt. of Experiments, R.E.
Portsmouth ...	5	Hampshire ...	50 48	1 6W.	M,W ¹ .	a.	Medical Officer of Health.

† Sunshine observations only; published with the data from St. James's Park.

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Princetown ...	8	Devonshire ...	50 33	3 59W.	M.	a.	A. R. Trott, for the Governor, H. M. Prison.
Pulham ...	3	Norfolk ...	52 25	1 14E.	M.	—	Meteorologist-in-Charge for M.O.
Quilty ...	10	Clare ...	52 50	9 28W.	ω, μ .	—	W. Barrington, M.I.C.E., for West and South Clare Railway Co.
Ramsgate ...	5	Kent ...	51 20	1 25E.	d,m.	a.	Town Clerk.
Raunds ...	4	Northampton ...	52 20	0 31W.	W,m.	a.	Léon G. H. Lee, F. R. Met. Soc.
Reading:—							
Leighton Park ...	5	Berkshire ...	51 26	0 57W.	m.	a, d.	C. I. Evans, M.A., Headmaster.
Shinfield ...	5	Berkshire ...	51 25	0 57W.	m.	—	Professor W. G. Duffield.
University College ...	5	Berkshire ...	51 27	0 58W.	m.	—	Professor W. G. Duffield.
Redruth ...	8	Cornwall ...	50 14	5 14W.	M.	—	A. P. Jenkin.
Renfrew ...	6	Lanark ...	55 52	4 24W.	D,W,M.	—	Meteorologist-in-charge
Rhayader ...	8	Radnor ...	52 1	3 31W.	W,m.	—	John Jones for M.O.
Rhyl ...	7	Flint ...	53 19	3 29W.	d,m.	a, d.	Borough Surveyor.
Richmond (Kew Obs.)	Lon.	Surrey ...	51 28	0 19W.	DW, ω ,M,s,J, μ	a, c, d, e.	C. Chree, Sc.D., F.R.S., Superintendent of the Observatory, for M.O.
Ridgewell ...	3	Essex ...	52 2	0 33E.	M.	—	Miss E. E. W. Gurney.
Roches' Point ...	10	Cork ...	51 47	8 15W.	D,W,M.	a, c, d.	M. Fitz Mahoney, Post Office, for M.O.
Ross (Chasedale) ...	4	Hereford ...	51 54	2 35W.	D,M, ω .	a, d.	Sergeant F. J. Parsons, Mus.Bac., and the late Mrs. H. E. Purchas.
Rosyth (H. M. Dockyard)	1	Fife ...	56 3	3 23W.	μ .	—	The Superintending C. E.
Rothamsted ...	3	Hertford ...	51 48	0 22W.	W,m.	a, c, d.	The Director, Lawes Agricultural Trust.
Rothessay ...	6	Bute ...	55 50	5 4W.	W,M.	a, c, d.	J. Davidson and the Town Clerk.
Rounton ...	2	Yorkshire ...	54 24	1 18W.	W,m.	a, c.	J. Hanagan, for Sir Hugh Bell, Bart.
Rousdon ...	8	Devonshire ...	50 43	3 0W.	m.	a.	The late C. Grover, for Hon. Lady Peek.
Rugby ...	4	Warwick ...	52 22	1 15W.	m.	c, d.	The Head Master, Rugby School, Rugby.
Ruthwell ...	6	Dumfries ...	55 0	3 26W.	m.	—	William Brown, for the Earl of Mansfield.
Ryde ...	5	Isle of Wight ...	50 44	1 10W.	m.	—	The Borough Engineer.
St. Andrews ...	1	Fife ...	56 20	2 47W.	d,m.	d.	The Burgh Surveyor.
St. Ann's Head ...	8	Pembroke ...	51 41	5 11W.	D,W,M.	a, c, d.	Lightkeepers, for M.O.
St. James's Park ...	Lon.	London ...	51 30	0 8W.	d,W,M.	a.	H.M. Office of Works.
St. Leonards ...	5	Sussex ...	50 51	0 33E.	d,W,M.	a, c, d.	W. R. Butterfield for the Corporation.
Salcombe ...	8	Devonshire ...	50 14	3 46W.	m.	a.	Rev. E. P. Thorpe.
Sandown ...	5	Isle of Wight ...	50 39	1 9W.	m.	—	C. E. Gilchrist, for Sandown District Council.
Scaleby ...	7	Cumberland ...	54 54	2 52W.	m.	a.	Sir R. A. Allidson, J.P., D.L.
Scarborough ...	2	Yorkshire ...	54 17	0 24W.	W,M,d.	a, c, d.	Medical Officer of Health.
Scilly ...	11	Cornwall ...	49 56	6 18W.	D,W, ω ,M,s, μ .	a, c, d.	The Coastguard, for M.O.
Seaford ...	5	Sussex ...	50 46	0 6E.	m.	—	Rev. L. S. Cowan, M.A.
Selsey Bill ...	5	Sussex ...	50 43	0 47W.	m.	—	E. Heron Allen.
Seskin ...	10	Waterford ...	52 21	7 24W.	W,M.	—	J. Ernest Grubb, J.P.
Sevenoaks ...	5	Kent ...	51 16	0 12E.	m.	a, d.	W. Tattersall.
Sevenoaks (U. D. C.) ...	5	Kent ...	51 16	0 12E.	m_o .	—	Urban District Council.
Shaftesbury ...	8	Dorset ...	51 1	2 12W.	W,m.	a, d.	Alexander Macdonell, M.A., and G. P. Barter
Sheepstor ...	8	Devonshire ...	50 29	4 1W.	M.	—	Rev. H. H. Breton, M.A.
Sheffield ...	4	Yorkshire ...	53 23	1 29W.	W,W ¹ ,m.	a, c, d.	E. Howarth, F.R.A.S., for the Corporation.
Shoburnyness ...	3	Essex ...	51 32	0 47E.	D, ω ,M, μ .	a, d.	The Meteorologist-in-charge for M.O.
Sidmouth ...	8	Devonshire ...	50 41	3 15W.	m.	a.	Miss C. Radford.
Skegness ...	2	Lincolnshire ...	53 9	0 21E.	d,w,M.	a.	F. A. Jenkins, for the Urban District Council.
Smeaton ...	—	Haddington ...	56 0	2 39W.	m.	—	Sir A. Buchan Hepburn, Bart.
Southampton ...	5	Hampshire ...	50 55	1 24W.	W,M.	a, c, d.	A. Vaughan, for Director General of Ordnance Survey.
Southend ...	3	Essex ...	51 30	0 45E.	d,m.	a.	E. J. Elford, for the Corporation.
South Farnborough ...	5	Hampshire ...	51 15	0 45W.	D,M,k.	—	The Meteorologist-in-charge for M.O.
South Kensington ...	Lon.	London ...	51 30	0 10W.	d.	—	The Meteorological Office.
Southport ...	7	Lancashire ...	53 39	2 59W.	d,W, ω ,M,s, μ .	a.	J. Baxendell, for the Corporation.
South Shields ...	2	Durham ...	55 0	1 26W.	ω, μ .	—	J. McDonald Manson, for the Tyne Improve- ment Commission.
Sparkhill ...	4	Worcester ...	52 27	1 51W.	m.	—	D. H. Owen.
Springburn Park ...	6	Lanark ...	55 53	4 18W.	D,M.	—	Robert Thompson, for M.O.
Spurn Head ...	2	Yorkshire ...	53 34	0 7E.	D,W,M.	a, c, d.	Principal Light-keeper, for M.O.
Stirling ...	6	Stirling ...	56 7	3 56W.	m.	—	J. Fyfe, C.S.I., Sanitary Inspector.
Stonyhurst ...	7	Lancashire ...	53 51	2 28W.	W,M.	a, c, d.	Rev. A. L. Cortie, S.J.
Stornoway ...	0	Hebrides ...	58 11	6 22W.	D,W,M.	a, c, d.	W. Grant, for M.O.
Strathpeffer Spa ...	0	Ross and Cromarty ...	57 37	4 28W.	W,m.	a.	W. Macrae, for Engineer in Chief, Highland Railway.
Strelley ...	4	Nottingham ...	52 58	1 15W.	m.	a.	T. L. K. Edge.
Stronvar ...	1	Perth ...	56 23	4 25W.	a.	a, d.	G. Dickson.
Swansea ...	8	Glamorgan ...	51 37	3 55W.	m.	d.	D. Bliss, for the Corporation.
Tavistock ...	8	Devonshire ...	50 33	4 10W.	m.	—	W. J. Monk.
Teignmouth ...	8	Devonshire ...	50 33	3 29W.	m.	a.	G. Rossiter, for Medical Officer of Health.
Tenbury (St. Michaels) ...	4	Worcester ...	52 18	2 36W.	W,M.	—	Frederick Lowe.
Tenby ...	8	Pembroke ...	51 41	4 42W.	m.	a.	Miss D. G. Truscott, for the Corporation.
Thorntonhall ...	6	Lanark ...	55 46	4 15W.	m.	—	James Dowie, for A. Henderson Bishop.

Station.	Dist.	County.	Lat.	Long.	Publication.	Normals.	Authority.
Torquay	8	Devonshire ...	50 28	3 31W.	d,m.	a, d.	P. C. Steventon and G. E. Body, for the Corporation.
Totland Bay	5	Isle of Wight ...	50 41	1 33W.	m.	a.	J. Dover, M.A.
Tottenham	Lon.	Middlesex ...	51 36	0 5W.	W,M.	a.	Medical Officer of Health.
Tunbridge Wells	5	Kent ...	51 8	0 16E.	d,W,m.	a.	Medical Officer of Health.
Turnberry	6	Ayr ...	55 19	4 50W.	m.	—	J. H. Thomas.
Tynemouth	2	Northumberland	55 1	1 25W.	D,W,M,W ¹ .	a, c, d.	Coastguard, for M.O.
Ushaw	2	Durham ...	54 47	1 39W.	m.	d.	Rev. Austin Forkin and Rev. James Adamson, B.A., for the Principal.
Valencia Obs.	—	—	—	—	—	—	See Cahirciveen.
Ventnor	5	Isle of Wight ...	50 36	1 13W.	W,M.	a, c, d.	Miss M. Gibson, Royal National Hospital for Consumption.
Walton-on-the-Hill	5	Surrey ...	51 16	0 15W.	M.	—	G. R. Crompton.
Wakefield	4	Yorkshire ...	53 40	1 30W.	m.	a.	The Waterworks Engineer.
Wallington	5	Surrey ...	51 22	0 9W.	m.	—	F. C. Bayard, LL.M.
Walton-on-Naze	3	Essex ...	51 51	1 16E.	d,m.	—	E. Scoggins, for the Urban District Council.
Wantage	5	Berkshire ...	51 35	1 35W.	m.	—	The Headmaster.
Waterford, Gortmore	10	Waterford ...	52 16	7 7W.	W,m.	a.	Mrs. N. H. White.
„ T. Coll.	10	Waterford ...	52 15	7 6W.	m.	—	Rev. M. J. Healy, B.Sc.
Watergate	5	Sussex ...	50 54	0 55W.	m ₀ .	—	W. M. Christy.
Weaver Point	10	Cork ...	51 48	8 17W.	w, ₀ .	—	Captain G. Osborne, for Cork Harbour Commissioners.
Wellington (Roden)	4	Shropshire ...	52 45	2 38W.	m.	—	J. W. Nowell.
Welshpool	7	Montgomery ...	52 39	3 8W.	m.	—	The Head Master, County School.
West Linton	1	Peebles ...	55 45	3 21W.	W,m.	a.	Dr. J. R. Jeffrey, J.P.
Weston-super-Mare	8	Somerset ...	51 20	2 59W.	d,m.	a.	Sydney C. Smith and W. H. Allen, for Urban District Council.
West Witton	2	Yorkshire ...	54 17	1 54W.	W,m.	—	J. B. Espiner.
Weymouth	8	Dorset ...	50 36	2 27W.	d,w,m.	—	G. Nicolson, for the Corporation.
Whitby	2	Yorkshire ...	54 29	0 37W.	M.	a, d.	Capt. D. S. Ramsdale for the Literary and Philosophical Society.
Whitworth Park	7	Lancashire ...	53 28	2 14W.	W,M,W ¹ .	a.	The University of Manchester.
Wick	0	Caithness ...	58 27	3 6W.	D,W,M.	a, c, d.	Coastguard for M.O.
Wisley	5	Surrey ...	51 17	0 26W.	W,m.	a.	The Superintendent, for the Royal Horticultural Society.
Wistanstow	4	Shropshire ...	52 28	2 50W.	M.	a.	Rev. W. M. D. La Touche, B.A.
Woburn	3	Bedford ...	52 1	0 35W.	M.	a.	James Crabtree, M.Sc., A.I.C., for the Royal Agricultural Society.
Woking... ..	5	Surrey ...	51 19	0 37W.	M.	—	G. C. H. Simmonds.
Wokingham	5	Berkshire ...	51 23	0 48W.	m.	a.	Medical Superintendent, The Sanatorium.
Wolfelee	1	Roxburgh ...	55 23	2 39W.	m.	a, d.	A. Waugh, for R. Milbanke Hudson.
Workop	4	Nottingham ...	53 22	1 5W.	W,M.	a, d.	H. Mellish, J.P.
Worthing	5	Sussex ...	50 49	0 22W.	d,w,M.	a, c.	Medical Officer of Health.
Woolacombe	8	Devonshire ...	51 10	4 12W.	m.	a.	R. W. Hansford, for Miss Chichester.
Yarmouth	3	Norfolk ...	52 37	1 43E.	*	a, c, d.	Coastguard for Corporation.
York (Bootham)	2	Yorkshire ...	53 57	1 5W.	†	—	The Meteorological Curator.
„ (Museum)	2	Yorkshire ...	53 57	1 5W.	W,M,W ¹ .	a, c, d.	Oxley Grabham, M.A., for the Yorkshire Philosophical Society.

* With the exception of sunshine values the data published for Yarmouth in the D.W.R. and in the climatological summaries now refer to Gorleston.

† Sunshine observations published with the data from York (Museum).

ROYAL OBSERVATORY, GREENWICH AND RADCLIFFE OBSERVATORY, OXFORD.

Royal Observatory, Greenwich.—The normals for Temperature, Rainfall and Sunshine are now for the 35 years 1881–1915, as with other stations. Averages for much longer periods are available.

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 43 miles per hour are reckoned as gales and winds between 21 and 43 miles per hour are classed as “force 4–7.”

Sky observations at the Royal Observatory are printed in Table IV(a).

Radcliffe Observatory, Oxford.—The pressure values are the means of observations at 9h., 12h. and 21h., reduced to mean daily values by the application of monthly corrections based on observations during the periods 1880–1887 and 1900–1905. Of the two values given for total rainfall and days of precipitation those in the first line are derived from the daily measurements at 9h. with an ordinary rain gauge, and those in the second line from daily readings of autographic records for the civil day ending at midnight.

In the statistical tables published by the Observatory the normals are kept up-to-date by the inclusion of each year when complete. The values used each year include all figures available up to the end of the preceding year. Rainfall is reckoned from 1815, pressure from 1855, temperature from 1828 and sunshine from 1881. In the present volume such normals have been utilised for pressure and for the rainfall given by the autographic records, but for temperature and sunshine and for the rainfall measured by the ordinary gauge the normals for the period 1881–1915 have been adopted. The Introduction to the volumes of the “Monthly Weather Report” for 1918 and 1919 requires amendment in this sense.

MONTHLY WEATHER REPORT, 1921.—TABLE III. CORRECTIONS AND ADDITIONS.

MONTH AND PAGE	PLACE	Terminal Hours of Observation		Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature at 7, 8 or 9 h.		RAINFALL				WEATHER Number of Days										BRIGHT SUNSHINE			
					Means of		Devia- tion from Normal	Absolute Maximum and Minimum				Total Fall.			Devia- tion from Normal	Most in a day		Precipitation 1 mm. or more	Snow	Snow lying	Hail	Thunderstorm	Fog.	Ground Frost	Gale	Hours per day						
					A	B		Maximum	Date	Minimum	Date					Amount	Date									Daily Mean	Devia- tion from Normal	Per cent.				
		Max.	Min.	Max.	Min.	Mean of A and B	Maximum	Date	Minimum	Date	in.	mm.	mm.	mm.	Precipitation 1 mm. or more	Snow	Snow lying	Hail	Thunderstorm	Fog.	Ground Frost	Gale	Daily Mean	Devia- tion from Normal	Per cent.							
		ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.								hr.	hr.	%							
Jan.	6 Ushaw College	-	-	-	-	-	-	-	-	-	-	3.53	90	-	40	-	-	-	-	-	-	-	-	-	-							
"	6 Belper (School)	-	-	-	49.4	-	-	-	-	-	-	-	-	-	-	12	-	-	-	-	-	-	-	-	-							
"	6 Buxton	-	-	-	45.1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	9 Malta	-	-	-	59.5	51.9	55.7	-	64	2nd	45	20th	-	2.73	69	-	23	10th	13	-	-	-	-	-	-							
Feb.	20 Ushaw College	-	-	-	-	-	-	-	-	-	-	-	-	0.20	5	-	-	-	-	-	-	-	-	-	-							
"	21 Croydon	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	23 Malta	-	-	-	58.7	51.4	55.1	-	64	7th	44	2nd	-	1.13	29	-	5	2nd	11	-	-	-	-	-	-							
Mar.	33 Crathes	-	-	-	-	-	+2.8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	33 Marchmont	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	34 Durham	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	34 Ushaw College	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-							
"	34 Lowestoft	-	-	-	52.4	39.2	45.8	+4.6	66	24th	30	3rd	44.2	44.5	0.77	20	-21	5	19th	13	10	6	3	0	1	1	1	3	0	5.26	+0.87	45
"	35 Folkestone	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	35 Eastbourne	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	37 Mungret College	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	37 Malta	-	-	-	60.3	52.0	56.2	-	65	8th	48	1st	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Apr.	47 Crathes	-	-	-	-	-	+2.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	48 Ushaw College	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	49 Hampstead Res.	-	-	-	56.1	39.4	47.8	-	69	13, 28	29	15, 16	-	1.15	29	-	8	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
"	50 Haverfordwest	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	50 Holton Heath	-	-	-	-	39.0	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	51 Malta	-	-	-	62.9	52.0	57.5	-	65	20th	51	4, 7	-	2.41	61	-	37	23rd	5	-	-	-	-	-	-	-	-	-	-	-	-	-
May	61 Crathes	-	-	-	-	-	+1.5	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	62 Ushaw College	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	64 Newquay	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	65 Blacksd Pt.	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	65 Malta	-	-	-	70.6	-	65.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
June	75 Crathes	-	-	-	-	-	+0.4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	76 Ushaw College	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	77 Richmond	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	(Kew Obs.)	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
"	77 Dungeness	-	-	-	63.8	52.6	58.2	+0.9	72	25th	40	12, 19	-	0.20	5	-	-	-	-	-	-	-	-	-	-	-	-	-				

TABLE IV. *Delete.* Depression of wet, Vapour Presence and Humidity at Yarmouth for June, p. 81. All readings at Garforth for December, p. 165. The following heights should read:—Colmonell, 150 feet, Jan.-April; Skegness, 31 feet, Jan.-Aug.; Guernsey, Grange, 195 feet, July-Dec.; Cattewater, 27 feet, Dec. The following terminal hours should read:—Perth, 9, 15,—, Oct.-Dec. and Year; Marchmont, 9,—, 21, Oct.-Dec. and Year; Tenbury, 9,—, 21, Dec.; Porton, 9, 15,—, Dec.; Cattewater, 7, 13, 18, Dec.

TABLE IVa. Feb. p. 26, Mar. p. 40, and April p. 54. Note at foot of Table IVa, for "page 1," read "page 70." May, p. 68. Night sky recorder. Average exposure should read 5'68 hr.

Corresponding alterations should be made in the Totals given in millimetres.

PLACE.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Year.
	in.	in.	in.	in.	in.	in.	in.	in.	in.	in.	n.	in.	in.
Loch Carron (Plockton) ...	9.40	—	—	—	—	—	—	—	—	—	—	8.87	—
Loch Torridon (Bendamph) ...	—	—	16.38	—	—	3.19	—	—	—	—	—	—	—
Arisaig (Faire-na-Sguir) ...	—	—	8.17	2.37	—	—	—	—	—	—	—	—	—
N. Ballachulish (Alltshellach) ...	—	—	—	2.59	—	—	5.94	—	—	—	—	—	—
Lhanbryde (Blackhills House) ...	2.70	0.55	1.99	—	2.32	—	—	3.42	—	—	1.68	2.68	24.57
Brechin Trinity ...	—	—	2.19	—	—	0.69	—	2.83	—	—	—	—	—
Montrose (Sunnyside Asylum) ...	—	—	—	1.31	—	—	—	—	—	—	—	—	—
Blair Atholl ...	—	—	—	—	—	—	—	—	1.75	—	2.53	5.03	—
Balerno (Cockburn Hill) ...	6.34	—	—	—	—	—	—	—	—	—	—	5.61	—
Mull (Quinish) ...	9.85	—	—	—	—	1.69	—	—	—	—	—	—	—
Poltalloch ...	—	—	—	—	—	—	—	—	—	—	—	—	—
Tiree (Cornaigmore) ...	(6.09)	3.10	5.56	1.88	2.57	0.96	2.95	3.44	1.94	—	3.85	—	—
New Cumnock (Ayr Sanatorium) ...	—	—	—	—	—	—	3.80	—	—	—	—	—	—
Moniaive (Maxwelton House) ...	—	—	—	—	—	—	—	—	—	3.72	—	—	—
Scarborough (Scalby) ...	3.24	—	—	—	—	—	—	—	—	—	—	—	—
Lexden (Hill House) ...	—	—	—	—	—	—	—	—	2.82	—	—	—	—
Wath-upon-Dearne (Chapel St.) ...	—	—	—	—	0.99	0.32	0.28	3.61	0.94	1.52	1.76	—	—
Grange-over-Sands (Holmcroft) ...	—	—	—	—	—	—	2.07	—	—	—	2.81	—	47.56
Snowdon (L. Llydaw) No. 9 ...	—	—	—	—	—	2.49	12.70	—	—	—	—	—	158.45
Lake Vyrnwy ...	10.06	0.27	—	—	—	—	—	—	—	—	—	—	—
Lampeter (Falcondale) ...	—	—	—	—	—	—	—	7.44	—	—	—	—	—
Crickhowell (Tal-y-mars) ...	5.50	—	5.50	1.00	—	—	—	—	2.00	—	—	—	32.80
Llanfrefcha Grange ...	—	—	—	—	—	—	—	—	—	2.00	3.50	—	26.27
Newport W. W. (Newchurch) ...	—	—	3.37	—	—	—	—	4.99	—	1.76	—	—	—
Narin (Kiltoorish) ...	6.10	2.89	—	—	—	—	—	—	—	—	—	—	—
Ennistymon House ...	—	—	—	—	—	—	—	—	—	—	4.96	—	—
Darrynane Abbey ...	—	—	—	1.68	—	—	—	—	1.99	—	—	—	—
Valencia Island (Glanleam) ...	—	—	—	1.22	—	—	—	—	—	—	—	—	—
Glanmire (Lota Lodge) ...	—	—	—	—	—	—	4.06	—	—	—	—	—	—
Mitchelstown Castle ...	3.55	1.89	—	—	—	—	4.03	—	1.77	2.70	4.47	2.48	32.25

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SIXTH YEAR.
Vol. XXXVIII. (New Series).

} No. I.

JANUARY, 1921.

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ABNORMALLY MILD.

In all parts of the British Isles the abnormally mild weather which set in just before Christmas was continued nearly throughout the whole of January. At South Kensington (roof station) the temperature was above the freezing point continuously from December 17th, throughout January, and up to February 3rd. During the month the type of weather was persistently cyclonic, so that the unusually high temperatures which were so widely recorded were accompanied nearly everywhere by much precipitation. It is noteworthy that at such a high level station as Sheepstor (Devon), 749 ft. above mean sea level, no snow fell throughout the month, an experience quite unique for January in the history of this station. Sleet and snow were not infrequent, however, in some parts of Scotland, and on the 24th a heavy snow-storm was reported at St. Andrews.

The only really cold weather experienced generally during the month occurred between the 11th and 16th, and it was during this brief wintry spell that the falls of snow of any significance occurred. On the 10th a very decided fall of temperature occurred in England and Ireland, the 7h. readings at some stations showing a decrease of as much as 8.3a as compared with the previous day. This change appears in some cases to have been initiated by a line-squall which swept across south-east England late in the afternoon of the 9th. During the night of the 15th-16th under the influence of relatively high pressure over England and France there were several degrees of frost inland, and a dense fog in some parts of London. Apart from this interlude there was no cold weather at all, and day after day the temperature rose to abnormal levels, the maximum temperatures recorded at numerous stations although equalled (mainly in 1916) having never before been exceeded in records, in some instances extending over fifty years. The frequency with which maxima between 28.4a and 28.8a were recorded was very remarkable; there were 24 such days at Falmouth, 22 at Dublin (Phoenix Park), 21 at Baldonnell (Dublin), 20 at Isle of Grain (Kent), and Birr Castle, and 19 at Kew Observatory and Nottingham. At Llandudno on the 4th a maximum of 28.9a was recorded.

A feature of the month was the persistence of mild damp winds from the south-west or west, with much low cloud. There was occasional fog on the south-west coasts and on the high ground near the English Channel, but little inland on the low ground. There were a few fine, clear days, especially in the middle of the month.

In Scotland the very mild conditions which had marked the last week of 1920 persisted during the first ten days of the month, and then for some days colder weather was experienced, with a minimum of 26.1a at Braemar on the 15th. Thereafter mild conditions were again much in evidence—with 28.7a at St. Andrews and Kettins on the 20th, and at Fortrose on the 21st—broken by a touch of cold around the 24th. On the whole the month was a very mild one, though much less mild than the January of 1916 or of 1898. During the first ten days or so there were some heavy falls of rain in the west and south—at Glenquoich 81 mm. on the 5th; from the 13th to the 15th any precipitation consisted mainly of snow; on the 16th and 17th there were moderate to heavy falls; whilst from the 21st onwards there was rain on every day in many districts, with as much as 107 mm. at Invergarry on the 21st and 74 mm. at Glencarron on the 27th. In east and north-east there were not a few fine days, and in parts of Forfarshire and Aberdeenshire aggregates were below the normal; but over the greater part of Scotland the month ranks as a very wet one, with fully twice the normal in some districts, e.g. in Berwickshire, around Edinburgh and Glasgow, and in parts of Argyllshire and Dumfriesshire. At Glencarron (447 mm.) the month was the wettest January for at least 35 years; at Poltalloch (Argyllshire) the wettest for at least 55 years; and at Rothesay the wettest since 1872. Here and there, however, in the wettest areas aggregates were larger in 1916 or 1903. The weather was very stormy from the 3rd to the 6th, from the 18th to the 23rd, and at the end of the month. There was some snow between the 11th and the 18th, and on the 24th there was a fall along the east coast with as much as 8 inches at Dundee.

The following notes supplied by observers illustrate the general character of the month:—Coppock (Ipswich).—The outstanding feature of January, 1921, was the unprecedented warmth, the mean maximum temperature (28.2.7a) the mean minimum (27.7.4a) and the mean temperature for the month (28.0.1a) all exceeding the readings in 1916, which was itself a record January. There were no less than 17 days on which the temperature exceeded

28.3 a. MELTHAM (Yorks).—With the exception of January, 1916, which was a little warmer, it was the mildest January in 42 years. WORKSOP (Notts).—A very mild month, though the day temperatures were not quite so high as in 1916. The minimum temperature during the night of the 9th (28.4a) was exceptionally high and was higher than any previous night reading in either January, February or March. MALVERN (Worcester).—Abnormally mild with temperature on eight occasions rising during the night. Bromyard (Hereford).—Very mild; snowdrops in bloom on the 9th. ROSSON-WYE.—The mildest January on record at this station. On 20 days the maximum temperature reached 28.3a and on no occasion was it below 27.7a. The warmth of the nights was unparalleled at this station during 45 years. TOTLAND BAY (Isle of Wight).—The smallest amount of sunshine (38 hours) for any January here. On the other hand the mean temperature (28.1.3a) was, except in 1916, the highest for January at this station during 35 years. LEYLAND (Lancs.).—The wettest January (136 mm.) yet recorded here. DUBLIN (Fitzwilliam Square).—Only thrice during the past 55 Januaries has the mean temperature exceeded that of January this year (28.1.4a); in 1875 it was 28.1.6a, in 1898, 28.1.8a, and in 1916 28.1.7a.

Air Pressure.—As shown by the map on page 3 the mean monthly trend of the isopleths was of a normal type, but the gradient was much steeper than usual. During the month deep depressions frequently passed between Iceland and Scotland as they travelled eastwards. They were accompanied by numerous minor disturbances which affected the British Isles in general, while on two occasions the main system was centred over these regions, notably about the 12th-13th and again at the close of the month. Stormy conditions were experienced occasionally, especially on the 18th, when a severe westerly gale swept across the British Isles. Gusts of over 60 miles per hour were reported from many parts, while in north-west England and on Salisbury Plain the maximum speed (at 60 ft. above ground) was nearly 80 m.p.h.

Temperature.—The mean monthly temperature was above the normal in all Districts, the excess ranging from 3.8a in the Midlands and in England East to 1.2a in Scotland East. For the week which ended on the 29th the mean temperature at Hawarden Bridge and Hereford was as much as 5.7a above the normal.

Precipitation.—Except in Ireland South and in the English Channel where there was a slight deficiency of 1 mm. and 4 mm. respectively the total rainfall for the month was above the normal in most Districts (see Table I. p. 2). Over the British Isles as a whole in accordance with previous experience in abnormally mild winter months, the total rainfall was high. It failed to reach the normal over small areas in the east and south, while more than twice the normal fell in the neighbourhood of the Cheviot Hills. Less than 50 mm. fell in the south-east of England and in the east of Aberdeenshire, the range in Scotland being from 33 mm. in the east to 810 mm. at Loan. A considerable area in the west of Scotland recorded over 250 mm. In Ireland 50 mm. were recorded in the neighbourhood of Dublin, whilst small areas in the mountain regions of the west had over 250 mm. In the English Lake District 1,080 mm. were recorded at the Styne, near Borrowdale. At Dungeon Ghyll 155 mm. and 105 mm. fell on the 8th and 9th respectively. A large area in the north-west of Scotland had more than 50 mm. on the 21st, and at Ardgour 87 mm. was recorded on the 5th. For the kingdom as a whole the general rainfall expressed as a percentage of the normal was: England and Wales, 146; Scotland, 168; Ireland, 119; and the British Isles as a whole, 145.

Sunshine.—Except in Scotland East, where there was a small excess of 0.10 hour per day, the mean daily amount of sunshine was below the normal in all Districts, the deficiency ranging from 0.70 hr. per day in England south-east to 0.04 hr. in Scotland west.

Optical Phenomena.—Solar and lunar halos were frequently seen; and the Zodiacal Light was observed at Oxford on the 9th and 12th, and at Tenbury on the 31st.

Aurora was seen at Baltasound, Deerness, Aberdeen and Eskdalemuir on the 10th; at Aberdeen on the 17th; and at Deerness on the 30th.



TABLE I.—DISTRICT VALUES—JANUARY, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal	Per cent.	I.	II.	III.	High est.	Date.	Low- est.	Date	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.		in.	mm.	mm.		hr.	hr.	%				mb.		mb	
0. SCOTLAND, NORTH ...	57	20	200+ 80.5	200+ 75.0	200+ 77.8	+1.2	200+ 76.6	-0.5	—		9.46	240	+ 93	26	0 70	-0.14	10	7.5	7.6	7.5	1023	24	969	18
Eastern.																								
1. SCOTLAND, EAST ...	57	11	80.6	74.7	77.6	+1.7	76.8	—	78.6	+0.7	4.11	105	+ 40	22	1.51	+0.14	20	7.3	7.3	7.1	1022	15	977	18
2. ENGLAND, N.E. ...	58	21	82.2	76.6	79.4	+3.0	78.3	+2.3	79.4	+1.1	2.56	65	+ 20	17	1.08	-0.31	14	7.2	3.2	6.8	1031	16	985	12
3. ENGLAND, EAST ...	58	25	82.9	77.2	80.1	+3.8	79.3	+2.7	80.5	+1.3	1.94	49	+ 3	19	1.46	-0.24	18	7.5	7.6	6.6	1035	16	991	12, 31
4. MIDLAND COUNTIES ...	58	23	82.6	77.4	80.1	+3.8	79.1	+2.3	79.9	+0.8	2.69	69	+ 15	19	0.84	-0.58	10	8.2	8.8	7.4	1033	16	986	31
5. ENGLAND, S.E. ...	58	23	83.0	78.2	80.6	+3.5	80.1	+2.8	80.9	+1.2	2.60	66	+ 10	20	1.18	-0.50	14	7.9	8.5	7.7	1036	16	988	31
Western.																								
6. SCOTLAND, WEST ...	56	17	81.7	76.8	79.3	+2.2	78.2	+2.3	79.4	+0.9	7.56	192	+ 76	29	1.13	-0.01	15	8.4	8.8	7.8	1023	15	987	18
7. ENGLAND, N.W. ...	60	22	82.6	77.9	80.3	+3.2	79.0	+2.4	79.7	+0.8	5.27	134	+ 57	26	0.94	-0.38	12	8.7	8.3	8.1	1029	16, 20, 21	932	12
8. ENGLAND, S.W. ...	59	22	83.1	78.9	81.1	+3.1	81.0	+2.7	81.7	+1.2	4.40	112	+ 21	25	0.97	-0.70	12	8.5	8.3	8.4	1035	21	987	12
9. IRELAND, NORTH ...	59	25	83.0	77.8	80.4	+2.6	79.7	+1.8	80.3	+0.5	4.53	115	+ 28	28	1.02	-0.37	13	7.7	7.8	7.4	1026	19	985	31
10. IRELAND, SOUTH ...	60	25	83.7	78.4	81.1	+2.5	80.2	+2.2	80.8	+1.1	3.82	97	- 1	26	1.15	-0.51	14	8.1	8.5	6.9	1033	20	984	12
11. ENGLISH CHANNEL ...	56	37	83.5	80.7	82.3	+2.5	81.8	+2.2	82.3	+1.0	2.83	72	- 4	26	1.41	-0.57	16	7.8	8.0	7.4	1036	20, 21	989	31
Mean : DISTRICTS 1-10 ...	60	11	82.5	77.4	80.0	+2.9	79.2	+2.4	80.1	+1.0	3.94	100	+ 27	23	1.12	-0.35	14	8.0	8.2	7.4	1036	—	977	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—JANUARY, 1921. [1914.]

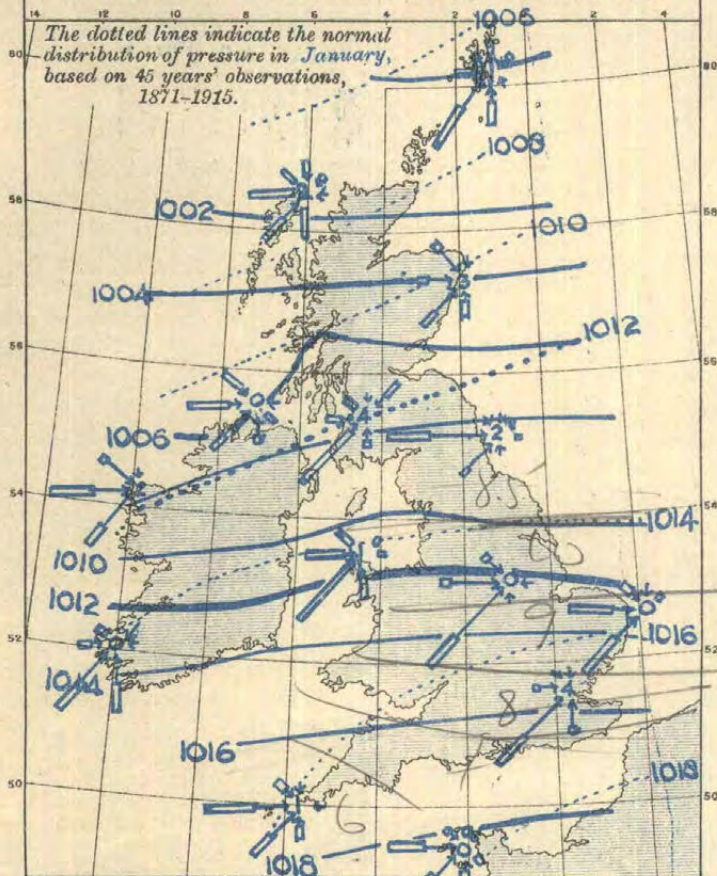
DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record	Highest Hourly Wind.		Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time	Speed.	Date.		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	d. h. m.
Deerness (Cup Anr.) ...	188	16	5	||	13	26	210	345	151	25	0	280	19	18	12	—	—
1. SCOTLAND, E.																	
Dyce ...	305	75	15*	—	0	0	0	89	449	147	59	180	10	17	4	22	18 13 0
+Aberdeen (Cup Anr.) ...	120	72	12	—	0	3	15	210	441	78	0	300	13	19	1	—	—
Balmakewan ...	140	25	18	21	4	5	8	199	305	130	98	240	18	21	21	32	21 21 5
Rosyth ...	85	73	19	28	1	19	158	324	171	90	0	230	17	28	15	29	22 0 15
Edinburgh... ..	485	39	31	3,6,17,21	13	23	139	365	180	46	0	180 230	19	3 21	21 23	30	21 22 40
6. SCOTLAND, W.																	
Eskdalemuir ...	825	50	22	||	27	22	201	247	131	138	0	230	21	21	15	31	18 10 15
Paisley ...	188	81	15	—	0	8	32	346	273	89	4	310	15	18	18	32	18 14 20
2. ENGLAND, N.E.																	
Alawick Castle... ..	340	70	17	21	1	4	16	191	320	204	12	230	17	21	24	32	22 1 10
South Shields ...	72	61	12	—	0	11	55	257	318	114	0	260	17	22	3	29	22 2 45
Spurn Head ...	66	40	†	Instrument dismounted.													
Cranwell ...	278	43	31	—	0	10	59	362	232	91	0	300 240	15	18 21	13 24	26	18 13 5
3. ENGLAND, E.																	
Gorleston ...	52	42	†	13	1	7	36	403	275	29	0	60	17	13	20	24	13 19 30
Felixstowe ...	51	30	18	—	0	8	44	397	276	27	0	250	15	18	10	25	18 15 50
Shoeburyness ...	103	90	†	—	0	6	29	399	277	38	1	220 270	13	10 18	16 11	27	18 9 15
4. MIDLAND COUNTIES																	
Benson ...	270	84	†	—	0	9	32	332	327	53	0	230 250	15	10 18	14 10	25	18 10 45
5. ENGLAND, S.E.																	
Calshot ...	55	45	31	—	0	14	68	430	212	23	11	270	16	18	12	25	18 13 40
Brighton ...	261	53	6	—	0	2	12	301	362	69	0	—	13	10	16	23	18 12 25
Isle of Grain ...	46	45	30	18	4	16	93	445	172	26	4	250	18	18	11	27	18 14 10
Richmond (Kew Obs.) ...	82	65	22	—	0	2	10	241	402	91	0	220	13	10	14	27	18 11 15
Larkhill (S'y Plain) ...	513	63	43	17, 18	13	19	109	426	185	10	1	270	22	18	10	35	18 10 35
7. ENGLAND, N.W.																	
Fleetwood (Cup Anr.) ...	109	44	—	18, 19	23	18	132	325	231	8	25	300	25	18	22	—	—
Southport ...	80	62	48	10, 11, 18, 19, 22	33	19	210	279	211	11	0	280	24	18	13	34	18 19 25
Holyhead ...	60	40	†	18, 19	25	21	209	406	102	2	0	300	24	18	20	33	18 19 40
8. ENGLAND, S.W.																	
Pendennis Castle§ ...	256	65	24	||	29	21	162	288	214	47	4	230	22	10	11	30	10 18 10
Plymouth ...	185	88	2	1,2,10,12	7	15	127	292	280	38	0	—	20	2	1	26	10 12 35
Lyme Regis ...	556	61	†	—	0	4	26	165	235	299	19	—	16	18	13	28	18 10 50
10. IRELAND, S.																	
Kingstown (Cup Anr.) ...	49	27	—	||	28	22	162	325	183	17	29	230	21	18	4	—	—
Quilly ...	100	40	†	9,10,17,18	24	21	250	393	73	4	0	—	21	18	13	32	18 11 40
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	16	152	356	195	28	13	250	16	18	5	30	18 7 50
Weaver Pt. ...	160	30	†	3, 6	2	17	145	309	241	20	27	—	17	6	7	31	18 7 20
11. ENGLISH CHANNEL.																	
Scilly ...	150	32	†	2,10,18	14	9	50	309	293	71	7	260	20	18	10	30	18 10 10

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to the Tables of the W. W. R.]

* Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. †† Tube Anemograph out of action since February 5th, 1920.

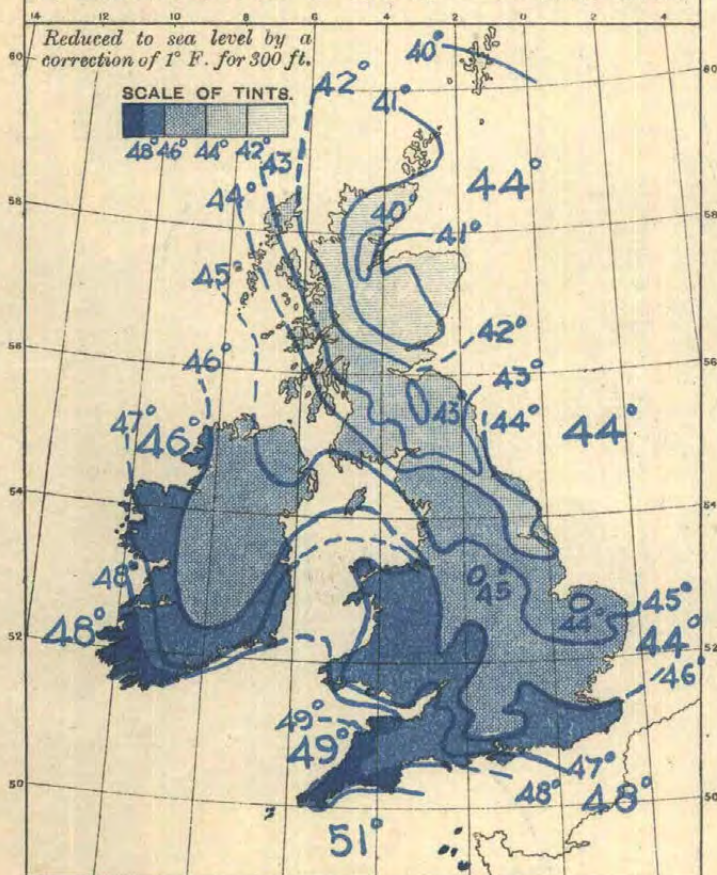
|| Pendennis 1, 2, 4, 10, 12, 18; Eskdalemuir 3, 4, 6, 18, 21, 28, 29; Deerness 3, 18, 19, 21, 22, 30; Kingstown 9, 10, 17, 18, 22, 24.

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



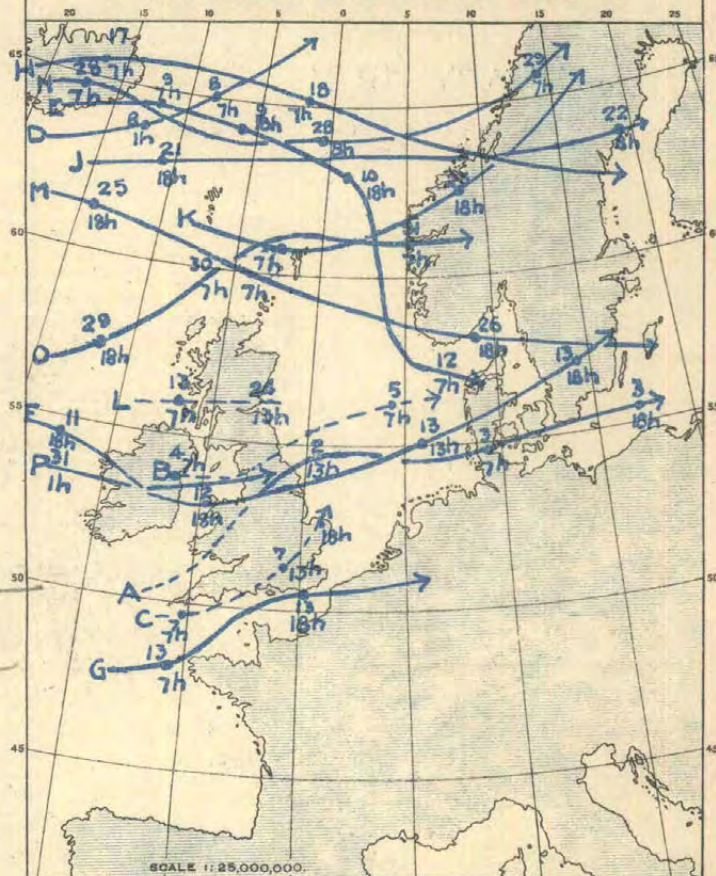
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: MODERATE TO STRONG GALE 30 Obs. = 1 inch

3. DISTRIBUTION OF MEAN TEMPERATURE.



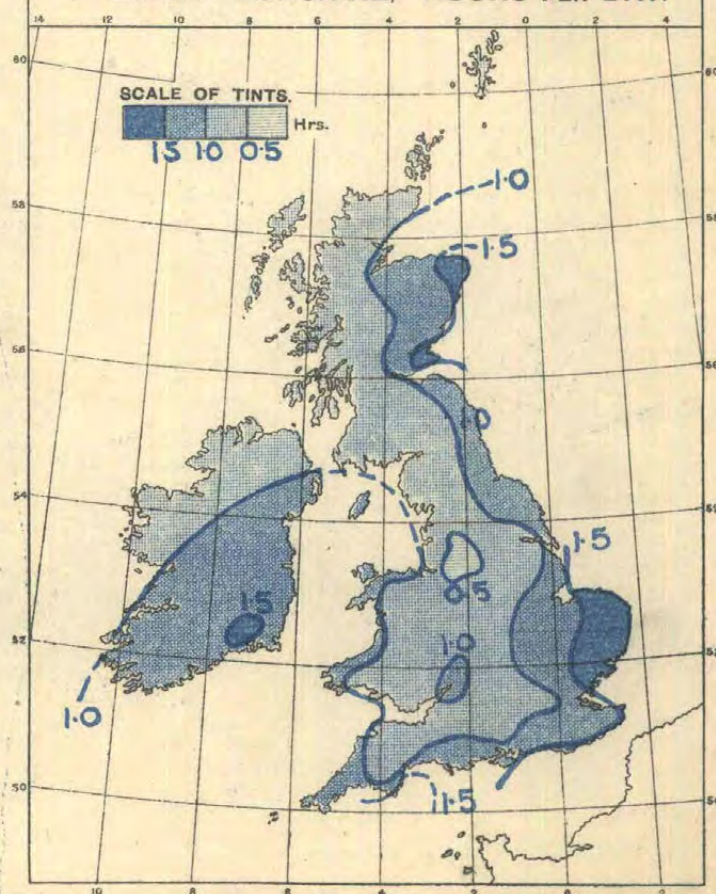
Sea temperatures are shown in large figures, thus 44°

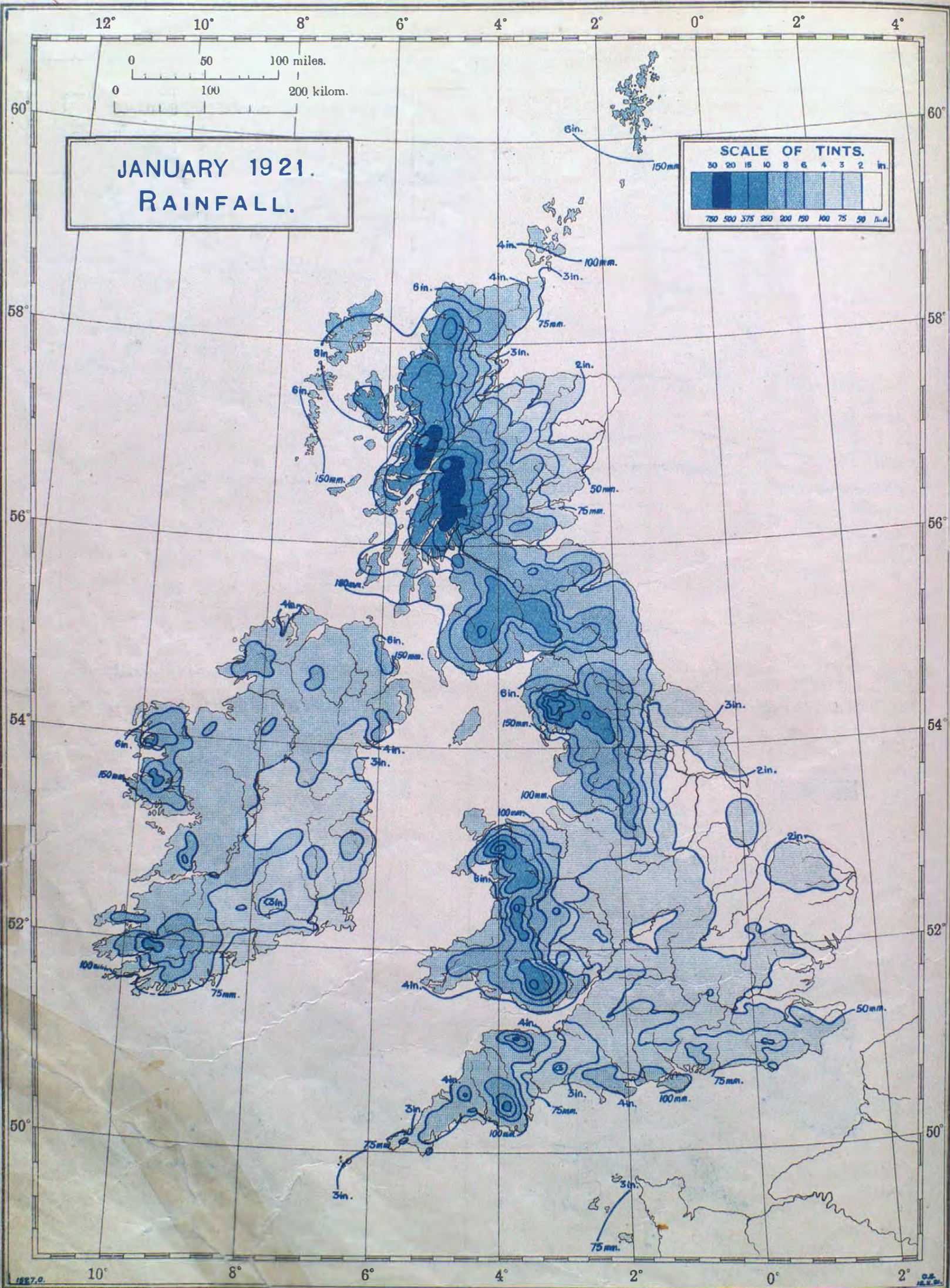
2. MOVEMENTS OF DEPRESSIONS.



Broken lines show approximate tracks of secondary depressions.

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 ft.		RAINFALL				WEATHER, Number of days.										BRIGHT SUNSHINE.			
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.	Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.							
						A	B		Maximum.	Date.	Minimum.	Date.														Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.			
						Max.	Min.																								Max.	Min.	
O. SCOTLAND, N.																																	
Shetlands.	Baltasound	9	9	9	31	43.9	34.8	39.4	—	50	20, 21	20	24th	39.4	—	—	6.29	160	—	17	20th	31	25	4	6	10	1	0	—	8	0.52	—	8
	Lerwick	7	7	7	54	44.8	35.9	40.4	+1.3	50	15, 19, 21	26	24, 25	—	—	—	6.22	158	+ 50	17	21st	28	26	9	1	7	0	0	—	6	—	—	—
Orkneys.	Deerness	21	21	9	160	44.9	36.5	40.7	+1.7	51	21st	29	24th	—	—	—	5.50	140	+ 52	22	21st	28	22	11	6	2	0	0	—	6	0.58	-0.39	8
	Kirkwall	9	9	9	100	—	—	—	—	—	—	—	—	—	—	—	—	5.56	141	—	23	21st	30	21	4	2	7	0	0	—	5	—	—
Hebrides.	Castlebay	7	7	7	37	47.9	41.5	44.7	—	52	5th	36	13, 14	—	—	—	5.46	139	—	32	24th	29	24	2	0	10	0	0	—	1	0.84	—	11
	Stornoway	7	7	7	51	45.9	38.2	42.1	+2.8	52	3rd	30	24th	—	—	—	8.15	207	+ 76	22	21st	28	26	1	0	9	0	0	—	0	0.81	-0.09	11
Caithness.	Wick	7	7	7	81	44.9	35.1	40.0	+2.1	53	21st	28	14th	—	—	—	2.82	72	+ 10	16	21st	15	19	4	—	1	0	0	—	3	—	—	—
Sutherland.	Dunrobin	9	9	9	12	45.8	34.1	40.0	+1.8	55	28th	26	15th	37.3	—	—	4.28	109	+ 39	17	21st	23	18	5	—	1	0	0	17	0	—	—	—
	Fortrose	9	9	9	69	45.8	35.7	40.8	—	57	21st	29	24th	—	—	—	2.09	53	—	11	21st	20	14	6	6	0	0	1	—	1	1.35	—	19
Ross and Cromarty.	Glencarron	21	21	9	500	45.1	35.3	40.2	+3.1	56	3rd	24	14th	—	—	—	17.60	447	+ 191	74	27th	30	25	5	5	0	1	0	—	0	—	—	—
	Strathpeffer	9	9	9	125	45.1	33.3	39.2	+1.9	54	3rd	25	15th	—	—	—	6.20	157	+ 77	28	21st	20	19	1	2	2	0	0	—	1	—	—	—
Inverness.	Ft. Augustus	9	9	9	68	46.5	34.9	40.7	+3.0	55	3, 28	24	15th	—	—	—	8.39	213	+ 76	44	21st	22	22	5	3	1	0	0	—	3	—	—	—
	Ft. William	21	21	9	171	46.1	36.8	41.5	+2.6	56	4th	24	13, 14, 15	—	—	—	16.85	428	+ 185	59	21st	29	27	6	5	2	0	5	—	0	—	—	—
	Inverness	21	21	9	98	46.8	35.2	41.0	—	54	4, 21, 28	26	15th	38.5	—	—	4.90	124	+ 61	23	21st	25	20	8	2	2	0	0	9	3	1.29	—	17
1. SCOTLAND, E.																																	
Nairn.	Nairn	7	7	7	82	45.5	34.7	40.1	+2.9	54	3rd	25	15th	—	—	—	3.05	78	+ 27	18	21st	26	18	5	0	2	0	1	—	4	1.32	—	18
	Gordon Castle	21	21	9	101	46.4	35.7	41.1	+3.0	56	4th	27	13th	—	—	—	2.73	69	+ 18	10	21st	20	17	4	4	0	0	0	—	1	1.42	—	20
Banff.	Banff	9	9	9	6	46.5	35.2	40.9	—	56	21, 28	27	13, 31	—	—	—	2.25	57	—	8	23rd	20	11	3	0	4	0	0	19	0	1.61	—	22
Aberdeen.	Aberdeen	24	24	24	46	45.9	36.3	41.1	+3.3	55	21st	30	14th	41.3	—	—	1.26	32	- 23	7	25th	17	12	4	0	1	0	3	13	0	1.65	+0.10	22
	Balmoral	9	9	9	930	42.1	32.0	37.1	—	53	3rd	15	15th	—	—	—	2.67	68	0	12	18th	21	14	6	8	0	0	1	16	3	—	—	—
	Braemar	21	21	9	1120	43.1	30.3	36.7	+2.4	52	3rd	11	15th	—	—	—	3.59	91	+ 13	12	23rd	25	22	8	13	0	0	0	22	0	—	—	—
	Logie Coldstone	9	9	9	608	45.0	33.1	39.1	—	54	3, 9	16	15th	—	—	—	1.43	36	- 20	6	18, 23	20	9	5	2	0	0	0	26	1	—	—	—
Kincardine.	Crathes	9	9	9	140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Arbroath	9	9	9	67	47.1	35.3	41.2	—	55	9, 20	28	14, 15	—	—	—	2.31	59	—	24	24th	15	10	1	1	0	0	1	—	1	1.71	-0.06	23
Forfar.	Carnoustie	9	9	9	39	46.4	35.6	41.0	—	54	9th	28	14, 15	—	—	—	2.93	74	—	26	12th	16	10	2	2	0	0	0	—	1	1.65	—	22
	Dundee	21	21	9	160	44.5	34.8	39.7	+2.6	53	9, 20	25	13, 14, 15	—	—	—	2.60	66	+ 16	19	23rd	19	12	3	2	0	0	0	—	1	—	—	—
	(E. Necropolis).	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Coll. Gdn.	9	9	9	244	45.4	33.5	39.5	—	54	9, 20	20	14th	36.8	—	—	2.80	71	—	20	24th	20	12	4	8	0	0	0	23	1	1.97	—	26
	Kettins	9	9	9	218	46.6	32.3	39.5	—	57	20th	19	14, 15	—	—	—	2.95	75	—	21	23rd	17	13	4	7	0	0	0	19	0	—	—	—
	Lednathie	9	9	9	720	—	—	—	—	—	—	—	—	—	—	—	—	3.77	96	—	27	23rd	11	11	6	2	0	0	2	—	1	—	—
	Montrose	9	9	9	16	45.9	35.0	40.5	—	56	9th	26	15th	—	—	—	1.69	43	—	8	23rd	14	10	3	1	0	0	0	—	1	1.32	—	18
Perth.	Crieff	21	21	9	478	45.7	34.6	40.2	+3.3	54	9, 28, 29	24	15th	—	—	—	5.21	132	+ 30	30	23rd	24	19	4	6	0	0	0	—	2	—	—	—
	Perth	9	9	9	76	46.4	34.8	40.6	+3.6	55	3rd	23	14, 15	—	—	—	3.82	97	+ 33	21	25th	18	18	5	2	0	0	0	—	2	1.42	—	19
Fife.	Cupar	9	9	9	210	46.8	35.5	41.2	—	54	3, 9, 20	25	15th	—	—	—	3.63	92	—	24	23rd	20	13	4	4	1	0	4	—	0	—	—	—
	Kirkcaldy	9	9	9	66	46.9	36.7	41.8	—	54	3rd	27	15th	—	—	—	4.32	110	—	23	24th	20	14	1	2	2	0	1	—	1	—	—	—
	St. Andrews	9	9	9	20	47.5	35.8	41.7	—	57	20th	27	15th	39.7	42.4	—	3.09	76	—	19	23rd	18	13	1	—	0	0	1	—	1	1.61	—	21
	Bangour	21	21	9	587	45.0	34.9	40.0	—	52	4, 29	19	15th	—	—	—	4.64	118	—	12	23rd	26	18	5	5	0	0	3	—	3	—	—	—
Edinburgh.	Dalkeith	9	9	9	190	47.8	36.7	42.3	—	55	28, 29	26	15th	—	—	—	3.41	87	—	20	23rd	16	13	3	2	0	0	1	—	1	—	—	—
	Blackford Hill	21	21	9	441	47.3	37.6	42.5	+4.5	54	4th	28	15th	—	—	—	3.98	101	+ 56	19	23rd	20	16	4	2	0	0	1	4	4	1.29	-0.29	17
	Liberton	9	9	9	190	47.4	37.9	42.7	—	54	3, 9, 28	27	15th	—	—	—	4.23	107															

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.		
		Max.	Min.	Rain.		Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.			1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.				
						A	B			Maximum.	Date.	Minimum.					Date.	Amount.										Date.	Daily Mean.	Deviation from Normal.	Per Cent.	
						Max.	Min.			Maximum.	Date.	Minimum.					Date.	Amount.										Date.	Daily Mean.	Deviation from Normal.	Per Cent.	
2. ENGLAND, N.E.						ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.											hr.	hr.	%
Northumberland.	Alnwick	9	9	9	181	49.3	37.2	43.3	+5.2	56	9th	27	15th	—	—	3.93	100	+ 42	19	24th	17	15	0	0	0	0	0	—	—	—	—	—
	Bellingham	9	9	9	848	44.0	33.0	38.5	—	51	9th	22	14, 15	—	—	6.68	170	—	26	12th	20	21	—	—	—	—	—	—	—	—	—	—
	Cockle Park	21	21	9	324	47.4	36.4	41.9	+5.1	55	9, 10	28	14th	40.2	42.0	4.47	114	+ 57	34	12th	18	14	1	0	0	0	0	9	1.13	-0.52	1	
	Tynemouth	7	7	7	118	48.7	38.7	43.7	+5.1	56	9th	30	16th	—	—	3.84	98	+ 57	34	12th	15	11	1	0	0	0	0	1	0.94	—	—	12
Durham.	Chopwellwood...	9	9	9	445	47.8	32.7	40.3	—	56	9th	21	15th	—	—	4.77	121	—	45	12th	22	16	1	1	0	0	0	—	—	—	—	16
	Durham	21	21	9	336	47.7	36.1	41.9	+4.8	58	4, 28	25	15th	—	—	3.05	77	+ 35	33	12th	17	12	1	1	0	0	1	10	2	1.16	-0.29	15
	Ushaw College...	9	9	9	594	47.0	35.4	41.2	—	55	9th	22	12th	—	—	4.41	712	—	50	12th	18	14	2	2	0	0	1	4	—	—	—	
York. N. Riding.	Ampleforth	9	9	9	348	47.5	38.1	42.8	+6.5	56	9th	29	14, 15	—	—	2.65	67	+ 19	15	12th	21	10	0	0	0	0	1	5	2	—	—	—
	Bridlington	21	21	9	57	48.0	37.6	42.8	—	56	9th	27	14th	—	—	2.53	64	—	12	12th	19	13	0	0	0	0	1	1	1.23	—	—	15
	Rounton	21	21	9	249	47.5	37.9	42.7	+5.7	56	9th	26	14th	40.8	—	2.95	75	+ 34	24	12th	22	12	0	0	0	0	1	18	3	—	—	—
	Scarborough	18	18	9	118	49.2	39.5	44.4	+5.7	57	9, 10	31	14, 15	—	43.6	2.30	58	+ 7	11	1st	17	12	4	1	0	0	0	1	10	-0.32	14	
	West Witton	9	9	9	605	46.7	38.1	42.4	—	53	9th	25	15th	40.4	42.3	6.44	164	—	25	12th	25	19	4	0	0	0	1	12	1	—	—	—
	Whitby	21	21	9	124	48.7	39.1	43.9	+4.7	57	9th	29	14th	—	—	3.10	79	+ 32	24	12th	18	12	3	0	0	0	1	4	1.03	-0.58	13	
York. E. Riding.	Howden	7	7	7	21	48.9	37.7	43.3	—	57	9th	25	14-16	—	—	1.75	45	—	10	11th	17	10	0	0	0	0	8	11	0	0.71	—	9
	Hull	21	21	9	8	49.6	39.5	44.6	+6.9	57	9th	27	14th	41.8	44.5	2.08	53	+ 7	11	1st	18	12	1	0	0	0	0	9	0	0.52	—	7
	Spurn Head	7	7	7	26	47.7	37.1	42.4	+4.0	54	9, 10, 29	31	15th	—	—	1.75	45	+ 10	7	1st	15	15	1	0	0	0	4	—	—	—	—	—
Lincoln.	Cranwell	7	7	7	237	49.0	38.3	43.7	—	56	9th	28	14, 15	42.6	44.0	2.01	51	—	9	1st	19	12	2	0	0	0	3	4	1	1.26	—	16
	Fulbeck	9	9	9	180	49.0	39.3	44.2	+7.1	58	9th	26	14th	—	—	1.94	49	+ 6	10	1st	19	11	—	—	—	—	7	—	0.94	—	12	
	Lincoln...	9	9	9	58	49.6	40.2	44.9	+7.8	57	9th	28	15, 16	42.6	44.1	1.75	44	+ 1	9	1st	17	11	1	0	0	0	0	5	2	—	—	—
	Skegness	9	9	9	12	49.4	39.4	44.4	+6.8	56	9, 10, 11	30	14, 15	—	—	1.71	44	+ 3	9	7th	17	13	0	0	0	0	2	—	1	1.48	-0.29	18
3. ENGLAND, E.																																
Norfolk.	Cromer...	9	9	9	196	50.1	37.6	43.9	+6.0	56	9th	30	16th	—	—	1.48	38	— 2	10	7th	19	10	0	0	0	0	3	—	4	1.77	0.00	22
	Geldeston	9	9	9	37	50.7	38.9	44.8	+6.8	58	9th	29	15, 16	—	—	1.65	42	0	6	13th	17	11	0	0	1	0	2	—	0	1.87	+0.10	23
	L. Massingham	9	9	9	277	48.6	37.2	42.9	+6.0	56	9th	28	15, 16	—	—	2.57	65	+ 11	19	7th	21	13	1	0	0	0	1	—	0	1.42	-0.10	17
	Norwich	9	9	9	93	49.9	40.4	45.2	+7.8	56	9th	29	16th	41.7	—	2.03	52	+ 2	7	7th	23	15	1	0	1	0	1	5	—	1.84	—	23
Suffolk.	Yarmouth	7	7	7	13	49.9	40.1	45.0	+7.2	57	9th	31	16th	44.1	45.6	1.50	38	— 6	5	1st	19	11	0	0	0	0	6	2	6	1.90	—	23
	Bungay (Flixton)	9	9	9	79	49.5	40.0	44.8	—	56	9th	30	15, 16	—	—	2.03	52	—	7	1, 14	19	13	0	0	0	0	4	6	1	—	—	—
Cambridge. Bedford.	Felixstowe Aero	7	7	7	15	49.7	40.8	45.3	—	56	9th	32	15, 16	—	—	1.52	39	—	6	1st	16	9	0	0	1	0	2	—	0	2.00	—	24
	Beach	9	18	9	15	49.5	41.1	45.3	+6.9	55	9th	30	15th	—	—	1.64	42	+ 2	7	1st	16	10	0	0	0	5	—	2	2.03	+0.03	25	
	Copdock	9	9	9	164	49.5	40.0	44.8	—	55	9, 10	30	15th	42.6	44.4	1.75	45	—	7	1st	16	11	0	0	1	1	1	5	1	1.81	—	22
	Lowestoft	21	21	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Hertford.	Cambridge	21	20	8	41	50.6	39.4	45.0	+7.4	57	28th	27	15, 16	43.7	45.7	1.98	50	+ 12	14	18th	17	10	1	0	1	0	1	12	0	1.32	-0.39	16
	Luton	9	9	9	390	49.9	39.8	44.9	—	55	2, 9, 10	25	16th	44.4	46.9	2.07	53	—	11	7th	16	14	0	0	0	0	0	5	0	1.26	—	15
	Woburn...	9	9	9	291	50.2	40.2	45.2	+7.7	55	10th	26	15, 16	44.2	46.4	1.89	48	+ 5	13	7th	18	11	3	0	0	0	1	—	0	1.19	—	14
	Bennington	21	21	9	406	48.8	38.5	43.7	+6.4	55	9th	28	15, 16	43.4	44.5	2.48	63	+ 17	14	7th	19	13	2	0	1	0	4	9	0	1.35	—	16
Essex.	Berkhamsted	9	9	9	450	49.2	40.1	44.7	+7.2	55	9th	27	15, 16	—	—	2.88	73	+ 14	10	7th	17	15	2	0	1	0	0	11	1	—	—	—
	Hemel Hempst'd	21	21	9	535	48.5	38.8	43.7	—	54	9th	28	15, 16	—	—	2.50	64	—	13	7th	19	16	2	0	1	0	1	5	1	1.23	—	15
	Hitchin...	9	9	9	297	48.9	39.8	44.4	—	54	4, 9, 10	28	15th	42.7	44.1	1.87	47	—	12	7th	17	9	2	0	1	0	2	4	5	1.55	—	19
	Rothamsted	9	9	9	420	48.9	39.7	44.3	+7.1	54	9th	27	15, 16	42.7	—	2.28	58	+ 6	12	7th	19	12	0	0	1	0	1	5	2	1.39	-0.32	17
	Clacton-on-S.	7	7	7	54	48.4	40.9	44.9	+7.0	54	9, 18	30	15th	43.8	46.2	1.60	41	+ 7	10	18th	14	10	0	0	1	0	0	2	3	1.61	-0.26	19
	Chelmsford	9	9	9	184	50.7	40.6	45.7	—	58	8th	27	16th	—	—	1.85	47	—	9	13th	16	12	—	—	—	—	—	—	—	—	—	—
	Halstead	9	9	9	139	50.3	40.1	45.2	—	57	9th	28	15, 16	—	—	2.29	58	—	13	13th	20	12	2	0	0	0	0	—	—	—	—	—
	Ridgewell	9	9	9	269	49.0	39.9	44.5	—	54	4, 10	30	16, 17	—	—	2.14	54	—	10	18th	21	13	0	0	0	0	1	—	—	—	—	—
Derby.	Shoeburyness	7	7	7	11	51.1	40.3	45.7	+7.4	56	9, 10	28	17th	—	—	1.32	34	+ 1	5	7th	17	10	0	0	1	0	8	5	3	1.68	—	20
	Southeast	9	9	9	90	49.6	40.2	44.9	+7.1	54	9, 10, 11	31	15th	43.9	—	1.46	37	+ 1	7	18th	17	11	0	0	1	0	1	3	1	1.48	-0.52	18
	Walton-on-Naze	9	9	9	69	—	—	—	—	—	—	—	—	—	—	1.46	37	—	7	5th	12	10	0	0	1	0	1	—	3	1.77	—	21
4. MIDLAND COUNTIES.																																
York. W. Riding.	Bradford	9	9	9	439	47.9	39.8	43.9	—	55	1, 9	27	15th	41.1	42.9	5.84	148	—	28	17th	26	20	—	—	—	—	—	4	—	0.65	—	8
	Garforth	9	9	9	192	49.7	37.2	43.5	+7.1	57	8th	24	15th	43.0	44.2	2.61	66	+ 20	12	12th	15	9	3	—	—	—	—	8	1	0.65	-0.29	8
	Harrogate	9	18	9	479	47.2	38.0	42.6	+5.9	55	9th	28	14, 15	41.7	42.6	3.96	101	+ 39	18	12th	26	14	2	0	1	0	1	6	3	0.87	-0.74	11
	Huddersfield	21	21	9	409	48.2	39.7	44.0	—	55	9, 10	27	15th	41.3	42.6	5.85	149	—	34	17th	25	20	3	0	1	2	1	4	6	0.42		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Rain.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
				Means of		Mean of A and B.	Devi- ation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Devi- ation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				A	B			Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Devi- ation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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4. MIDLAND COUNTIES—cont.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
Stafford.	Cheadle	9	9	9	646	47.4	38.5	43.0	+6.5	55	9th	27	14th	—	—	3.08	78	+ 13	15	17th	20	19	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1921.

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.							BRIGHT SUNSHINE.						
				Means of		Devia- tion from Normal.	Absolute Maximum and Minimum.				Total Fall.	Devia- tion from Normal.	Most in a day			Precipitation, 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.									
							Maximum.	Date.	Minimum.	Date.														Daily Mean.	Devia- tion from Normal.	Per Cent.							
		Max.	Min.	Max.	Min.	Mean of A and B.							1 ft.	4 ft.			Amount.	Date.															
7a. ENGLAND, N.W.																																	
Cumberland.	Aspatria (Mealsgate)	21	21	9	487	46.7	37.9	42.3	+4.2	51	4, 9, 10	26	14th	42.7	44.3	6.22	158	+79	25	9th	28	20	3	0	0	0	0	2	0	0.52	-0.93	7	
	Egremont	21	21	9	349	46.5	39.3	42.9	—	50	9, 10	27	14th	42.4	43.7	7.09	180	—	20	8th	26	23	1	0	1	0	1	4	0	0.68	—	9	
	Keswick	9	9	9	254	49.6	39.5	44.6	—	55	9, 28	26	14, 15	43.1	44.0	9.36	238	—	26	9th	29	25	2	0	0	0	0	7	1	0.58	—	7	
	Newton Rigg	21	21	9	559	47.5	37.2	42.4	+5.5	54	10th	25	14, 15	—	—	7.00	178	+98	22	18th	30	23	3	0	0	0	0	8	1	0.71	-0.58	9	
	Scaleby	9	9	9	111	48.9	36.5	42.7	+5.1	54	3, 9	22	15th	—	—	5.62	143	+80	22	9th	27	22	1	1	0	0	1	1	—	—	—	—	
Lancashire.	Blackpool	9	9	9	66	48.2	41.7	45.0	+6.3	52	3, 4, 25,	29	15th	43.7	45.1	5.37	136	+67	18	12th	26	23	0	0	1	0	0	2	2	0.90	-0.65	11	
	Blundellsands	9	9	9	34	49.7	42.3	46.0	—	55	9th	29	14th	43.4	44.8	3.94	100	—	17	1st	24	19	0	0	2	1	0	3	4	—	—	—	
	Bolton	9	9	9	341	48.2	39.9	44.1	—	56	9th	28	14, 15	42.4	43.5	7.16	182	—	36	17th	25	24	2	1	2	0	0	3	0	0.39	—	5	
	Burnley	9	9	9	458	47.4	39.3	43.4	—	54	9th	24	14th	42.0	43.7	8.11	206	—	30	17th	30	22	—	—	—	—	3	8	—	0.42	—	5	
	Darwen	21	21	9	722	—	38.0	—	—	—	—	28	14th	41.7	42.7	8.49	216	—	27	12th	26	23	3	0	2	1	0	—	3	0.65	—	8	
	Hutton	9	9	9	82	48.9	40.2	44.6	—	56	9th	26	14th	42.8	44.2	5.44	138	—	14	12th	26	22	0	0	1	0	1	2	1	0.84	—	11	
	Lancaster	9	9	9	311	47.0	40.0	43.5	—	52	3, 4	29	14, 15	44.3	45.6	7.44	189	—	24	12th	30	24	1	0	2	1	0	2	0	0.61	—	8	
	Leyland	9	9	9	124	49.2	40.1	44.7	—	55	9, 28	25	14th	—	—	5.35	136	—	15	12th	28	21	0	0	2	1	0	6	1	0.90	—	11	
	Morecambe	9	18	9	24	47.6	40.4	44.0	—	51	3, 4, 6	27	14th	—	—	6.02	153	—	21	12th	28	24	0	0	0	0	0	0	0	0.71	—	9	
	Southport	9	9	9	37	48.7	41.5	45.1	+6.4	54	4, 9	29	15th	42.2	43.1	4.30	109	+44	14	17th	25	20	0	0	2	0	0	2	5	1.13	-0.42	14	
	Stonyhurst	9	9	9	375	48.0	40.1	44.1	+6.3	54	9th	27	15th	—	—	8.61	219	+110	23	17th	27	26	2	0	2	1	1	3	0	0.74	-0.32	9	
Liverpool.	Bidston	21	21	9	185	50.3	41.5	45.9	+6.6	57	9th	32	15th	—	—	2.94	75	+21	14	1st	23	17	2	0	3	1	0	4	1	1.39	—	17	
Manchester.	Whitworth Pk.	21	21	9	125	49.7	40.5	45.1	+6.0	57	9th	27	14, 15	—	—	4.71	120	+56	18	17th	25	23	2	0	0	0	0	—	1	0.35	-0.23	4	
	Oldham Road	21	21	9	190	49.2	40.2	44.7	+5.2	56	9th	29	14, 15	43.2	44.7	5.43	138	+65	22	17th	28	24	2	0	2	0	0	0	2	0.23	-0.22	3	
	Alex. Park	7	7	7	99	50.4	40.2	45.3	—	58	9th	24	14th	—	—	4.52	115	—	21	17th	25	21	2	0	3	0	1	7	3	—	—	—	
Cheshire.	Hawarden Brge.	9	9	9	22	51.6	42.1	46.9	+7.0	58	9th	29	15th	—	—	3.19	81	+35	20	31st	21	15	—	—	—	—	—	—	—	—	—	—	
	Hoyle	9	9	9	30	51.8	41.9	46.9	+7.0	58	9th	29	14, 15	—	—	3.53	90	+32	17	31st	22	17	—	—	—	—	—	—	—	1.48	-0.20	18	
	Macclesfield	9	9	9	500	48.4	38.9	43.7	+6.8	55	9th	26	14, 15	—	—	4.00	102	—	13	17th	23	22	—	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																	
Flint.	Rhyl	9	9	9	30	51.4	40.7	46.1	+5.7	58	9th	29	14, 15	—	—	4.10	104	+59	34	31st	23	16	0	0	0	0	0	2	1	1.39	-0.71	17	
Anglesey.	Holyhead	7	7	7	15	49.9	43.5	46.7	+4.9	53	9, 17, 28	34	15th	—	—	5.32	135	+61	18	12th	25	23	0	0	2	0	5	1	2	0.97	—	12	
Carnarvon.	Colwyn Bay	9	9	9	81	51.2	42.8	47.0	—	58	9th	30	15th	—	—	4.19	106	—	26	31st	17	17	—	—	—	—	—	—	—	1.39	—	17	
	Llandudno	21	21	9	22	51.8	43.2	47.5	+6.1	60	4th	30	14th	—	—	4.63	118	+52	21	31st	25	17	0	0	0	0	0	—	4	1.39	-0.45	17	
Merioneth.	Aberdovey	9	9	9	60	49.7	43.7	46.7	+5.3	53	3rd	31	14th	—	—	4.97	126	—	20	1st	27	20	0	0	0	0	1	—	1	0.74	-1.13	9	
Mont- gomery.	Welshpool	9	9	9	262	50.3	40.2	45.3	—	55	10th	26	14, 15	—	—	3.54	90	—	18	17th	17	17	0	0	0	0	0	—	—	—	—	—	
Cardigan.	Aberystwyth	9	9	9	16	49.8	43.1	46.5	—	54	3rd	30	14th	—	—	4.06	103	—	14	1st	27	21	0	0	2	0	0	—	1	0.68	-1.19	8	
Pembroke.	Haverfordwest	21	21	9	250	50.5	43.4	47.0	—	53	4, 28	30	15th	—	—	5.85	149	+32	21	11th	28	22	0	0	1	1	2	—	3	1.06	-0.65	13	
	St. Ann's Hd.	7	7	7	145	50.1	45.7	47.9	+5.2	53	9th	36	14th	—	—	4.19	106	+22	19	1st	27	20	0	0	0	0	7	—	3	0.97	-0.74	12	
	Tenby	9	9	9	64	50.6	43.4	47.0	—	55	9th	29	14th	—	—	5.10	130	—	18	1st	30	20	0	0	0	0	1	6	0	1.00	-0.90	12	
Brecknock.	Gwernylf Pk.	9	9	9	374	50.2	39.3	44.8	+7.2	56	9th	25	14, 15	—	—	3.42	87	+22	14	1st	22	15	1	0	0	0	0	—	—	—	—	—	
Radnor.	Rhayader	9	9	9	757	48.5	39.8	44.2	—	55	9th	22	14th	—	—	6.42	163	—	41	17th	28	20	2	1	1	0	0	4	5	0.84	—	10	
Glamorgan.	Cardiff	21	21	9	202	49.5	42.3	45.9	+7.0	54	10th	30	15th	44.8	46.0	4.96	125	+32	16	1st	25	22	0	0	0	1	1	6	1	0.84	—	10	
	Swansea	9	9	9	25	50.2	42.6	46.4	—	53	9, 24	30	14th	46.3	48.9	6.32	161	—	21	1st	29	24	0	0	1	0	0	7	0	0.65	—	8	
Monmouth.	Newport	9	9	9	82	50.5	43.3	46.9	—	55	24th	31	15th	45.7	47.0	4.80	122	—	15	1st	23	18	0	0	0	0	0	—	—	—	—	—	
8b. ENGLAND, S.W.																																	
Somerset.	Bath	9	9	9	66	51.1	42.6	46.9	+7.6	56	10th	27	15th	45.5	47.0	3.03	77	+16	15	30th	21	15	1	0	0	0	0	—	1	0.74	-0.78	9	
	Long Ashton	9	9	9	162	50.8	42.2	46.5	—	58	29th	28	14th	45.4	—	3.67	93	—	17	30th	22	17	0	0	2	0	0	4	1	0.77	—	9	
	Weston s. Mare	9	18	9	29	50.4	43.4	46.9	+6.2	55	10th	32	15th	—																			

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS, JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.		
								Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.			
											Maximum.	Date.	Minimum.	Date.															Daily Mean.	Deviation from Normal.	Per Cent.	
																																A	B	Mean of A and B.
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Date.	Min.	Date.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Amount.	Date.	Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.						
9. IRELAND, N.																																
Sligo Mayo.	Markree Cas.	7 21 21	9	122	50.9	39.8	45.4	+5.8	56	24th	30	13, 14	44.1	45.2	4.96	126	+ 27	28	9th	28	25	1	0	4	0	2	9	2	0.94	-0.41	12	
	Blacksod Pt.	7 7 7	10	51.1	43.1	47.1	+4.4	54	2, 19, 29	38	4th	—	—	5.79	147	+ 18	23	5th	28	26	0	0	1	0	0	—	1	—	—	—		
	Mallarany	9 9 9	120	50.0	42.5	46.3	—	55	27, 28	34	13th	—	—	9.18	233	—	42	9th	30	26	0	0	2	1	1	2	0	0.84	—	11		
Donegal.	Dunfanaghy	21 21 9	50	49.8	41.5	45.7	—	57	4th	34	13th	—	—	5.43	138	—	20	9th	27	25	0	0	2	0	0	0	4	—	—	—		
	Malin Hd.	7 7 7	208	48.4	41.0	44.7	+3.8	54	3rd	32	19th	—	—	4.01	102	+ 36	16	11th	27	22	0	0	1	0	5	—	1	0.65	—	8		
Antrim. Down. Armagh. Longford.	Lisburn...	9 9 9	206	48.7	36.5	42.6	—	54	3rd	25	14th	—	—	5.69	145	—	23	9th	26	19	0	0	0	0	0	—	2	—	—	—		
	Donaghadee	7 7 7	35	49.7	40.4	45.1	+4.5	55	9, 20	32	14th	—	—	4.36	111	+ 47	24	10th	28	18	1	0	0	0	0	—	0	—	—	—		
	Armagh	7 21 21	9	204	49.8	39.8	44.8	+5.4	55	3, 4, 25,	30	13, 14	43.6	45.0	4.33	110	+ 46	21	9th	29	18	4	1	2	0	1	5	0	1.10	-0.32	14	
Newtownforbes	21 21 9	161	51.4	39.2	45.3	—	59	22nd	29	13th	44.2	45.1	4.05	103	—	23	3rd	24	22	0	0	0	0	2	—	5	—	—	—			
10. IRELAND, S.																																
Dublin.	Baldonnell	7 7 7	289	50.4	40.5	45.5	—	55	9, 25	30	14th	—	—	2.96	75	—	15	12th	26	19	0	0	0	0	3	3	1.10	—	—	14		
	City	21 21 9	54	51.8	42.4	47.1	+5.3	57	9th	31	14th	—	—	2.42	62	+ 4	14	12th	24	15	0	0	1	0	2	4	5	—	—	—		
	Glasnevin	21 21 9	55	52.2	41.1	46.7	+6.1	57	25th	28	15th	—	—	2.68	68	+ 9	14	12th	28	16	1	0	1	0	2	7	9	—	—	—		
	Phoenix Pk.	21 21 9	155	51.5	40.3	45.9	+5.7	57	25th	26	14th	—	—	3.12	79	+ 21	14	1st	24	17	0	0	0	0	4	6	1.39	-0.45	17			
	Trin. Coll.	21 21 9	12	52.2	42.3	47.3	+5.2	57	3, 4, 9	31	14, 15	45.3	46.4	2.24	57	+ 2	11	1st	22	13	0	0	0	0	1	5	1	0.97	-0.26	12		
Ranelagh	21 21 9	61	51.8	42.1	47.0	—	57	4th	30	14, 15	—	—	2.19	56	—	13	12th	24	12	0	0	0	0	1	6	3	—	—	—			
Wicklow.	Newcastle	21 21 9	256	51.7	41.3	46.5	—	57	10th	31	14th	—	—	2.96	75	—	15	11th	23	16	—	—	—	—	—	—	—	—	—	—		
King's Co. Queen's Co. Kilkenny.	Birr Castle	7 7 7	175	50.0	40.3	45.2	+5.4	55	3rd	28	14th	44.7	45.7	3.70	94	+ 22	14	12th	26	19	0	0	2	0	0	8	1	1.23	-0.38	15		
	Mountmellick	9 9 9	252	49.9	39.3	44.6	—	56	25th	28	14, 31	—	—	4.27	108	—	18	3rd	21	20	—	—	—	—	—	—	—	—	—	—		
	Kilkenny	9 9 9	195	51.1	39.5	45.3	+5.4	57	9th	25	14th	—	—	3.48	88	+ 7	24	11th	25	17	—	—	—	—	—	—	—	—	—	—		
Waterford.	Waterford—	9 9 9	137	51.3	41.0	46.2	+4.6	56	17th	28	14th	—	—	2.88	73	—	20	11th	20	17	—	—	—	—	—	—	—	—	—	—		
	Gortmore	21 21 9	16	51.3	39.0	45.2	—	55	17, 18, 21	27	14th	—	—	3.37	86	—	15	11th	28	18	0	0	0	0	1	—	0	—	—	—		
	Training Coll.	21 21 9	542	50.3	40.2	45.3	—	57	9th	29	14th	—	—	3.47	88	—	15	11th	23	17	0	0	0	0	2	7	2	1.71	—	21		
Seekin, Carrick-on-Suir.	21 21 9	542	50.3	40.2	45.3	—	57	9th	29	14th	—	—	3.47	88	—	15	11th	23	17	0	0	0	0	2	7	2	1.71	—	21			
Tipperary. Limerick.	Cahir	9 9 9	199	50.7	39.4	45.1	+4.5	57	20th	25	14th	—	—	3.82	97	—	27	12th	27	19	1	0	0	0	0	—	—	—	—	—		
	Foynes	9 9 9	50	51.0	42.1	46.6	+4.7	59	6th	30	31st	—	—	4.79	122	+ 26	16	3rd	27	21	—	—	—	—	—	—	—	—	—	—		
	Mungret College	9 9 9	55	51.0	42.1	46.6	+4.7	59	6th	30	31st	—	—	4.79	122	+ 26	16	3rd	27	21	—	—	—	—	—	—	—	—	—	—		
Kerry.	Killarney	9 9 9	174	51.9	42.9	47.4	+4.8	60	9th	30	14th	—	—	5.28	134	—	16	23	11th	27	19	—	—	—	—	—	—	—	—	—		
	Cahiriveen (Val Obs.)	24 24 24	30	51.4	45.0	48.2	+3.8	55	9th	34	14th	—	—	5.30	135	—	4	16	25th	28	21	0	0	3	1	0	1	1.07	-0.58	12		
Cork.	Ballinacurra	9 9 9	24	51.7	41.1	46.4	+4.0	57	27th	27	14th	—	—	2.19	56	—	45	18	11th	22	14	0	0	0	0	0	4	1.00	-0.84	12		
	Roche's Point	7 7 7	32	51.6	43.9	47.8	+4.3	57	27th	32	14th	—	—	2.72	69	—	36	17	11th	29	16	0	0	0	0	6	—	—	—	—		
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21 9	295	50.8	44.6	47.7	+4.2	55	10th	37	14th	47.8	48.8	3.36	85	+ 1	12	30th	29	19	0	0	2	0	7	2	3	1.42	-0.58	16		
	Villa Carey	9 9 9	180	51.4	45.4	48.4	+5.1	55	10th	39	14, 15, 31	—	—	3.12	79	—	0	12	30th	28	20	0	0	1	0	3	2	1.29	-0.65	15		
Jersey. Scilly.	St. Aubins	7 7 7	25	51.7	45.3	48.5	+5.9	56	10th	38	17th	—	—	2.05	52	—	23	10	7th	25	17	0	0	0	0	0	—	1	1.52	-0.67	18	
	St. Mary's	7 7 7	131	51.7	46.8	49.3	+3.6	54	4, 9, 10	41	14th	—	—	3.32	84	+ 8	11	1st	26	19	0	0	0	0	9	—	1	1.42	-0.52	17		
Gibraltar	...	7 7 7	44	61.5	47.5	54.5	-0.5	71	4th	42	15, 16	—	—	1.17	30	—	90	8	5th	8	8	0	0	0	1	3	0	—	—	—		
Malta	...	8 8 8	195	59.5	51.9	55.7	—	64	2nd 4th 20th	—	—	—	—	2.73	69	—	23	10th 17th	73	—	—	—	—	—	—	—	—	—	—	—		

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
JANUARY, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs	1.55	-0.39	19
Hove	1.61	—	19
Watergate	1.29	—	15
LONDON, Bunhill Row	0.45	-0.03	5

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
Belper (R. Derwent) 9 h...	48	40	45.3	+5.6

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets. Birmingham (7), Ross on Wye (10), Glasgow (17), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfauaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seakin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked *g*, where Glaisher stands are in use. When the Maximum thermometer is read in the morning the reading is credited to the previous day.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of		Number of observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observations.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.				HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, JANUARY, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.		Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.		Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.		Percentage of Normal.
						ft.	in.		mm.	%						ft.		in.	mm.	%							ft.	in.	mm.	%
O. SCOTLAND, N.									2. ENGLAND, N.E.—cont.									8a. SOUTH WALES.								
Caith. Suth.	Thurso (Buckies) ...	240	5.31	135	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.84	47	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	8.16	207	130									
	Dornoch (St. Gilbert's) ...	35	2.93	74	—		Lowthorpe (The Elms) ...	63	2.48	63	120		Aberystwyth (Gogerddan) ...	83	6.36	162	156									
	Loch More (Achfary) ...	167	14.63	372	—		Boston (Black Sluice) ...	11	1.96	50	121		Devil's Bridge ...	825	9.51	242	—									
	Melvich Schoolhouse ...	—	4.54	115	—		Grantham (Saltersford) ...	188	1.81	46	—		Lampeter (Falcondale) ...	498	5.74	146	—									
	Tongue Manse ...	180	5.29	134	—		Horncastle ...	110	2.09	53	—		Tregaron (Maes-y-bettws) ...	910	7.90	201	—									
R. & C.	Alness (Ardross Castle) ...	450	6.13	156	161	Norf.	Louth (Westgate) ...	120	2.16	55	100	Pem. Carm.	Fishguard (Goodwick Station) ...	57	5.45	138	—									
	Loch Carron (Plockton) ...	4	8.90	226	—		3. ENGLAND, E.	Aylsham (Rippon Hall) ...	90	2.11	54		—	Carmarthen (The Friary) ...	62	6.08	154	—								
Inv.	Loch Torridon (Bendamph) ...	20	17.03	433	181	Suff.	Swaffham ...	250	2.35	50	127	Brec.	Llanddeusant (Ponterynfe) ...	323	8.86	225	—									
	Loch Arisaig (Faire-na-Sguir) ...	130	9.50	241	—		Halesworth Rectory ...	50	1.88	48	—		Cardiff, W.W. (Beacons Res.) ...	1340	13.18	335	—									
	Cluny Castle ...	900	7.75	197	—	Cambs.	Hawkedon Rectory ...	305	1.97	50	113	Glam.	Crickhowell (Tal-y-maes) ...	1250	3.50	89	—									
	Drumnadrochit ...	138	3.88	99	108		Chatteris (The Priory) ...	45	1.83	46	—		Port Talbot (Twyn-yr-hydd) ...	180	5.50	140	—									
	Loch Arkaig (Achnacarry) ...	120	18.13	460	—	Essex.	Ashwell (Odsey) ...	256	1.84	47	—	Devon.	Treherbert (Tyn-y-waun) ...	801	15.63	397	—									
	Loch Quoich (Glenquoich) ...	569	26.32	668	191		Parson Drove (Clows Cross) ...	13	1.44	37	—		8b. ENGLAND, S.W.	Llanfrechfa Grange ...	326	4.44	113	111								
	" (Loan) ...	650	31.90	810	—	Notts. Rutl.	Elsenham (Gaunts End) ...	363	2.08	53	—	Som.	Newport W.W. (Newchurch) ...	550	4.66	118	—									
	N. Ballachulish (Alltshellach) ...	80	13.81	351	—		Uppingham (Ridlington) ...	527	2.64	67	—		Brushford Rectory ...	450	4.20	107	—									
	Skye (Dunvegan) ...	47	11.93	303	—	Wor.	Lexden (Hill House) ...	90	1.97	50	—	Derry. Ant.	Crewkerne (Merefield House) ...	231	3.15	80	—									
	" (Portree) ...	65	10.44	265	—		Blockley (Upton Wold) ...	800	2.51	64	106		Woodlawn ...	300	4.27	108	112									
1. SCOTLAND, E.						Here.	4. MIDLAND COUNTIES.									9. IRELAND, N.										
Moray.	Grantown-on-Spey ...	700	3.13	80	129		Glous.	Wath-upon-Deane (Chapel St.) ...	188	1.66	42	—	Mayo.	Aasleagh House ...	30	13.27	337	—								
Aber.	Lhanbryde (Blackhills House) ...	300	2.65	67	—	Yk. W.R. Derby.		Wetherby (Ribston Hall) ...	130	3.02	77	147		Galw'y.	Crossmolina (Enniscoe) ...	74	7.53	191	144							
	Aberdeen (Cranford House) ...	120	1.39	35	58		Mickleover Manor ...	280	2.63	67	130	Delphi Lodge ...	110		14.49	368	—									
	Fyvie Castle ...	200	1.66	42	—	Notts. Rutl.	Whaley Bridge (Mosley Hall) ...	760	6.64	169	—	Don.	Dugort (Slievemore Hotel) ...	50	11.60	295	—									
	Logie Coldstone (Loanhead) ...	743	1.43	36	67		Uppingham (Ridlington) ...	527	2.64	67	—		Westport House ...	35	7.40	188	—									
Kinc.	Peterhead (Forehill Works) ...	133	1.89	48	—	Nort'n.	Mansfield (West Bank) ...	405	2.17	55	—	Ballynahinch Castle ...	41	6.87	174	—										
	Brechin (Trinity) ...	295	2.09	53	—		Wellingborough (Swanspool) ...	155	2.40	61	130		Galway (Grammar School) ...	60	4.49	114	—									
Forf.	Glen Prosen (Pearsie House) ...	600	3.06	78	—	War. Oxford. Bucks. Staff. Salop.	Farnborough ...	515	2.22	56	103	Woodlawn ...	300	4.27	108	112										
	Montrose (Sunnyside Asylum) ...	200	1.70	43	85		Oxford (Magdalen College) ...	186	2.30	58	134		Killybegs (Rockmount) ...	65	6.27	159	112									
Perth.	Aberfeldy (Dall Avon) ...	320	5.42	138	—	Wor.	Oving House ...	515	2.66	68	—	Don.	Letterkenny (District Asylum) ...	183	5.66	144	—									
	Balquhiddie (Stronvar) ...	422	12.71	323	150		Lichfield (St. John Street) ...	269	2.01	51	—		Milford (The Manse) ...	150	4.82	122	—									
	Blair Atholl ...	—	4.45	113	136	Glous.	Church Stretton (Wolstaston) ...	800	3.30	84	130	Derry. Ant.	Londonderry (Creggan Res.) ...	320	4.51	115	125									
	Coupar Angus ...	183	3.11	79	131		Shifnal (Hatton Grange) ...	262	2.14	54	110		Ballymena (Harryville) ...	150	5.45	138	147									
	Glendevon (Glenquay Res.) ...	945	6.50	165	—	Wor.	Barnt Green (Upwood) ...	650	2.48	63	—	Tyrone.	Belfast (Cave Hill Road) ...	200	6.51	165	—									
	Killin (The Manse) ...	400	13.48	342	—		Blockley (Upton Wold) ...	800	2.51	64	106		Glenarm Castle ...	70	7.93	201	—									
	Kirkmichael (Ballintuin Ho.) ...	700	4.34	110	—	Here.	Bromyard (Rowden Abbey) ...	450	3.30	84	—	Down.	Omagh (Edenfel) ...	280	5.81	148	164									
	Loch Dhu ...	325	14.40	366	158		Ledbury (Underdown) ...	307	2.62	66	—		Sion Mills (Sion House) ...	100	4.64	118	—									
Midl. Had. Selk.	Loch Rannoch (Dall) ...	772	10.05	255	—	Glous.	Cirencester (Dollarwood Ho.) ...	366	3.23	82	136	Wex. Wat.	Banbridge (Miltown) ...	200	4.10	104	183									
	Loch Venacher ...	275	8.75	222	159		Clifton (Stoke Bishop) ...	243	3.59	91	—		Mourne Mts. (Fofanny Res.) ...	938	7.42	188	—									
Rox.	Balerno (Cockburn Hill) ...	767	6.39	162	—	5. ENGLAND, S.E.									Fer. Long. W.M. Meath.	Seaford ...	180	5.05	128	160						
	North Berwick Reservoir ...	150	3.71	94	216	Mid. Kent.	Harrow Weald (Hill House) ...	284	2.73	69	—	Dublin.	Warrenpoint (Clonallan) ...	15		3.67	93	—								
	Ettrick Manse ...	796	11.07	281	—		Surrey.	Sevenoaks (Speldhurst Close) ...	470	2.59	66		—	Wick. K. Co. Q. Co. Car. Wex. Wat.	Enniskillen (Portora) ...	251	4.89	124	—							
	Selkirk (The Hangingshaw) ...	670	5.22	133	189	Reigate (Hartswood) ...		174	2.81	71	—	Ballymahon (New Castle) ...	250		3.02	77	—									
	Hawick (Brankholme) ...	457	5.35	136	195	Sussex.	Tenterden (View Tower) ...	190	2.02	51	94	Tip.	Mullingar (Belvedere) ...	367	3.83	97	119									
	Jedburgh (Jedneuk) ...	270	4.66	118	249		Hailsham Vicarage ...	105	2.84	72	108		Drogheda (Mullacrogan) ...	300	2.99	76	—									
6. SCOTLAND, W.						Hants.	Patching Farm ...	180	3.34	85	128	Cork.	Balbriggan (Ardgillan) ...	211	3.33	85	145									
Arg.	Dalmally (Manse of Glenorchy) ...	150	16.38	416	—		Wilt.	Upton Nerve Rectory ...	308	2.44	62		—	Lim. Kerry.	Rathmines (Harold's Cross) ...	155	2.03	52	—							
	Eriska (Ledaig) ...	30	9.18	233	—	Ashley (Old Manor House) ...		235	3.16	80	—	Rathnew (Clonmannon) ...	27		2.40	61	—									
	Inveraray Castle Gardens ...	40	20.57	522	250	Cumb. West. Lancs.	Fordingbridge (Oaklands) ...	135	3.80	96	138	Clare.	Ballycumber (Moorock Lodge) ...	228	—	—	—									
	Islay (Eallabus) ...	68	8.85	225	189		Devizes (Highclere) ...	480	3.14	80	—		Abbey Leix (Blandsfort) ...	532	3.93	100	120									
Bute Dumb. Lank. Glas'w. Ayr.	Mull (Quinish) ...	35	—	—	—	Ches.	Nantwich (Dorfold Hall) ...	190	3.71	94	—	Tip.	Hacketstown Rectory ...	600	3.66	93	—									
	Poltalloch ...	132	11.05	281	—		7a. ENGLAND, N.W.	Borrowdale (Seathwaite) ...	423	25.95	659		195	Cork.	Gorey (Courtown House) ...	60	2.68	68	86							
	Dougarie Lodge ...	10	6.93	176	—	Angl. Carn.		Orton ...	770	13.15	334	—	Tip.		Tramore (Midvale) ...	115	2.71	69	—							
	Arrochar (Glen Loin) ...	50	13.64	346	—		Denb. Mer.	Garstang (Holme H., Bleasdale) ...	650	9.62	244	—		Cork.	Waterford (Brook Lodge) ...	104	3.36	85	91							
	Biggar ...	691	5.95	151	—	Lancs.		Llangynhafal (Plás Drâw) ...	419	3.93	100	—	Cork.		Cashel (Ballinamona) ...	257	3.73	95	—							
	Queen's Park ...	114	6.17	157	185		Ches.	Grange-over-Sands (Holmercroft) ...	330	9.78	248	—		Cork.	Clonmel (Bruce Villa) ...	110	2.79	71	—							
	Girvan (Pinmore) ...	207	8.15	207	173			Lancaster (Strathspey) ...	87	6.79	172	—	Cork.		Nenagh (Castle Lough) ...	120	5.22	133	132							
	Maybole (Knockdon Farm) ...	352	7.10	180	—			Nantwich (Dorfold Hall) ...	190	3.71	94	—</														

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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FORTY-SIXTH YEAR.
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FEBRUARY, 1921.

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ABNORMALLY DRY.

The pressure distribution over west and north-west Europe during the month was largely dominated by a series of important anticyclones. In consequence, strong winds and gales were rare, and the rainfall was small except in the Mediterranean area. Temperature was mostly high for the time of year in western Europe and Iceland, but severe frost prevailed at times over Sweden. Depressions followed paths well to the northward or southward of the British Isles.

A depression which arrived from the Atlantic on the closing day of January, became stationary over Northern England and filled up, and a short spell of quiet weather with local frost and fog over the British Isles followed. From the 5th to the 8th there was a spell of east wind over England, with cold dull weather, but no frost, though over Central Europe there was frost and occasional snow. The west of Ireland came under the influence of Atlantic depressions and there was a good deal of rain, Valencia Observatory having 16 mm. on the 3rd, 26mm. on the 4th, and 18mm. on the 7th. One of these systems caused a southerly gale in West Ireland on the 4th, and in the western part of the English Channel on the 5th before it filled up, and there was also a southerly gale on the latter date in Caithness and the Shetlands. Pressure remained low over Iceland, and on the morning of the 8th there was a shallow secondary trough over Ireland, with cold air behind it. This system dispersed, and a large new anticyclone developed rapidly over Ireland, while the Scandinavian anticyclone moved quickly away south-eastward owing to the appearance of a depression over the North Cape. Pressure exceeded 1,044mb. over most of Ireland and south-west Scotland on the morning of the 10th, and subsequently the anticyclone withdrew to a position off north-west Ireland and remained almost stationary till the 17th, decreasing slowly in intensity. A warm current from the Atlantic spread round the stationary anticyclone, and the weather became unseasonably mild over Western Europe, and especially over the British Isles, although the sky was mainly overcast. A depression which moved east-south-east from Iceland caused a total rainfall of 34 mm. of rain at Lerwick on the 14th and 15th, and smaller falls in other parts of Scotland.

In the rear of another depression which moved east-south-east from Iceland, an important change took place in the distribution of pressure. The highest pressure was transferred from south-west Ireland to Scotland by the 18th, and the system withdrew to east Central Europe by the 22nd. Over western Europe there was a south-east current, with fine weather and frosty nights but warm days. The daily range of temperature was unusually high, being as much as 33° F. at South Farnborough on the 22nd. On the two following days temperature reached 60° F. at a few stations in England and France. On the 25th a large new anticyclone developed rapidly off south-west Ireland under circumstances rather similar to the development of the 9th. On this occasion, however, there was a warm southerly current over western Europe, and the cold current in front of the new anticyclone displaced the warm current and caused rain over the British Isles and North France between the 24th and 26th, and local thunder in England on the night of the 24th. On the last day of the month a mild westerly current was again established over north-west Europe, with rain in north and west Scotland.

As to cloud and fog for the greater part of the month the weather was of a type frequently associated with winter anticyclones, the sky being overcast with a uniform horizontal cloudsheet at about 2,000 or 3,000 feet. There was a spell of fine weather in England from the 20th till the 24th, inclusive. In this period there was morning fog at a few stations, and there was a good deal of fog from the 2nd to the 4th, but for the most part the visibility was fair to good, especially near the coast.

The most noteworthy feature of the month was pronounced deficiency of rainfall such as had not been observed since the very dry Februaries of 1895 and 1891. Everywhere the rainfall was considerably below the average, and, as in 1895 and 1891, the deficiency mainly occurred in England and Wales. Less than 10 per cent of the average (1881-1915) was recorded in broad bands from north Cornwall to the south of Shropshire, from Preston to Durham, and in Essex and Suffolk. More than 50 per cent. was recorded only in the south of Ireland and west of a line from Galway northwards along the coast to Wick. The grouping of the dry and rather wetter areas exhibited the characteristic arrangement from south-west to north-east. Rainfall of more than 25mm. was confined to small mountain regions in England and Wales and the western half of Scotland, but it was general in Ireland with the exception of the eastern central basin. At Seathwaite the rainfall was the smallest noted in February since the observations began in 1845, January of this year having been the wettest since 1873.

A further noteworthy feature of the month's weather was the high mean temperature, which was, however, very generally below that of January. There were indeed many more frosts in February than there were in January, the low night temperatures having the effect of reducing the mean. At Benson and Croydon for instance, there were 15 and 13 days respectively on which the shade temperature fell below 273a, compared with only 5 and 2 such days in January. In the latter month at Nottingham there were 19 days on which the maximum temperature rose above 283a, compared with only 3 such days in February. Gales were rare during the month and there was also a notable absence of snow. It is noteworthy that from 2h on February 1st until 10h on the 3rd (56 hours) "dead calm" was registered continuously by the anemometer at Alnwick Castle, Northumberland; and at the Groyne Lighthouse, South Shields no wind above five miles per hour was registered during the same period.

In Scotland the month was very dry in practically all districts; wide areas had less than one quarter of the normal; and many stations (e.g. Gordon Castle and Dumfries) aggregates of less than half an inch. In the East generally the month was the driest February since 1891, and at Gordon Castle it was the driest since 1878. In the West, however, smaller totals occurred in 1917 and 1919. Towards the South-East the greater part of the months' small rainfall was accounted for on the 1st; on the 8th and around the 15th moderate to fairly heavy falls occurred towards the North-West; on the 24th conditions were unsettled, remaining so until the end of the month. The weather was rather stormy on the 4th and around the 15th; but little snow was experienced.

The following notes supplied by observers illustrate the general character of the month:—COPPOCK (Ipswich).—The total rainfall (4mm.) was the smallest ever recorded in any month at this station during the past twenty years. TOTLAND BAY (Isle of Wight).—The rainfall for February amounted to 5mm. on four days, which amount is less than in any preceding February at this station except 3mm. in February, 1895, also on four days. The absolute drought lasted for 21 days, from the 3rd to the 23rd inclusive, the nearest approach to this being the 18 days drought in February, 1895. On the 27th the barometer rose to 1045.0 mb. and was the highest point touched since December 12th, 1905. SHEEPSTOR (Dartmoor).—The total rainfall for the month (11mm.) was the lowest for any month at this station during the last fourteen years, the previous lowest being April, 1912, with 12mm. At 4h on the 27th the barometer reached 1047.1 mb., which is easily the record here. DUBLIN (Fitzwilliam Square).—The outstanding features at this station were a high atmospheric pressure which held almost without interruption from the evening of the fifth to the close of the month; a scanty rainfall on only seven days; a remarkable prevalence of cloud, particularly at night; a complete absence of snow and hail; very little frost; and a preponderance of anticyclonic winds, at one period from the South-East and at another from the West. On the 10th at 9h the barometer rose to 1044.7 mb. and to 1045.7 mb. at 21h on the 26th.

Air Pressure.—There was no instance of a primary depression passing directly across the British Isles, and as shown by the map on page 17 the mean monthly trend of the isopleths was of a normal south-westerly type over the northern area, but of an anticyclonic type in the south. The monthly means were largely above the normal, and at the telegraphic reporting stations the excess ranged from 13.9 mb. at Stornoway to 8.3 mb. at Jersey. On the 27th at Valencia Observatory the barometer rose to 1048.3 mb., the highest pressure on record at this station being 1053.2 mb. on January 28th, 1905. At Edinburgh the mean pressure for the month (1024.6 mb.) was the highest in any month since May, 1896, and has been exceeded in February during the last 65 years only in 1890 and 1891. On the 10th the pressure reached 1044.7 mb., a reading only once exceeded in February at this station during the last 80 years (1051.1 mb. in February, 1902) but equalled in 1911.

Temperature.—The mean monthly temperature was above the normal in all Districts; the excess ranging from 1.7a in Scotland North to 0.5a in England South West. At the individual station the highest reading recorded was 290a on the 24th at East Ham and Leamington Spa; and the lowest 263a on the 8th at Braemar.

Precipitation.—In all Districts the total rainfall for the month was below the normal, the deficiency varying from 70 mm. in England North West to 29mm. in England East. In London (Camden Square) the rainfall was the lowest for February in 64 years' record, excepting February, 1891 (.01 in.) and 1895 (.12in.). Only two other months April 1912 (.04 in.) and May 1896 (.14 in.) had a smaller total. At Blundellsands (Lancs.) the total (.22 in.) was the smallest in February since 1891. At Richmond (Kew Observatory) the total was only .19in., there having been only two drier Februaries here since 1866, the previous driest being .09 in. in both 1891 and 1895. The general rainfall for the month expressed as a percentage of the normal was:—England and Wales 15; Scotland 39; Ireland 51, and the British Isles as a whole 34.

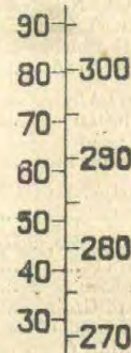
Sunshine.—The mean daily amount of sunshine in most Districts did not differ largely from the normal, the largest deficiency being 0.76 hour per day in Ireland South and the largest excess 0.20hr. in England East.

For the winter season (13 weeks from November 28th, 1920) the average temperature was well above the normal in all parts of the British Isles. Rainfall for the same period was decidedly less than the normal, except in Scotland East and West and in England North East. Sunshine was slightly deficient in most Districts.

Optical Phenomena.—A sun pillar was seen at Aberdeen on the 26th, and the Zodiacal Light at Oxford on the 2nd, 9th, 10th and 23rd; at Ross on Wye on the 25th and 26th; and at Tenbury also on the 26th.

Aurora was observed at Deerness, Fort William and Gordon Castle on the 5th and at Deerness on the 13th.

Note.—The article by Captain J. C. K. M. Douglas in the Meteorological Magazine for March has been utilized in the preparation of these notes.



Temperature Scales.

TABLE I.—DISTRICT VALUES—FEBRUARY, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal	Per cent.	I.	II.	III.	High- est.	Date	Low- est.	Date	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	55	23	200+ 80.8	200+ 75.5	200+ 78.2	+1.7	200+ 77.1	+0.2	—	—	2.91	74	— 42	14	1.56	—0.33	17	7.8	7.6	7.0	1044	10	996	15
Eastern.																								
1. SCOTLAND, EAST ...	59	14	80.4	74.4	77.4	+1.4	76.5	—	78.1	+0.9	0.59	15	— 42	8	2.46	—0.04	26	6.8	7.1	6.5	1043	10	1000	1
2. ENGLAND, N.E. ...	59	20	80.7	74.8	77.8	+1.0	77.1	+1.1	79.0	+1.3	0.24	6	— 32	6	2.30	—0.23	24	7.3	7.5	5.7	1044	10	994	1
3. ENGLAND, EAST ...	61	21	80.9	74.5	77.7	+0.9	77.7	+1.4	79.8	+1.2	0.38	10	— 29	7	2.86	+0.20	29	7.2	6.7	6.2	1044	26, 27	998	1
4. MIDLAND COUNTIES ...	62	22	80.7	74.3	77.5	+0.7	77.5	+0.9	79.4	+1.1	0.28	7	— 40	4	2.01	—0.33	21	8.0	6.9	6.4	1045	26	998	1
5. ENGLAND, S.E. ...	63	21	81.3	75.0	78.2	+0.7	78.2	+0.8	80.2	+1.2	0.42	11	— 41	5	2.67	+0.03	27	7.2	6.8	6.6	1046	27	997	1
Western.																								
6. SCOTLAND, WEST ...	55	20	80.7	75.6	78.2	+1.1	77.2	+0.8	78.9	+0.9	1.45	37	— 63	9	1.66	—0.44	17	7.5	8.2	6.8	1045	10	998	1
7. ENGLAND, N.W. ...	59	20	80.8	75.6	78.2	+0.9	77.5	+0.8	79.2	+1.0	0.34	9	— 55	6	2.53	+0.19	25	7.0	7.0	7.0	1045	26	996	1
8. ENGLAND, S.W. ...	60	22	81.4	75.6	78.6	+0.5	79.1	+0.8	81.2	+1.3	0.29	7	— 70	4	2.81	+0.18	28	7.0	6.5	5.4	1046	27	995	1
9. IRELAND, NORTH ...	55	25	81.7	76.6	79.2	+1.3	78.9	+1.3	79.5	+1.0	1.12	28	— 46	11	1.82	—0.41	19	7.7	7.1	7.5	1046	26	993	4
10. IRELAND, SOUTH ...	56	25	82.1	76.6	79.3	+0.6	79.5	+1.4	80.7	+1.4	2.02	51	— 34	10	1.75	—0.78	18	8.0	8.6	7.8	1047	26	995	1
11. ENGLISH CHANNEL ...	56	32	82.7	77.9	80.3	+0.6	79.7	+0.6	81.5	+1.1	0.39	10	— 57	7	3.29	+0.12	33	7.2	7.2	5.4	1045	27	999	2
Mean: DISTRICTS 1-10 ...	63	14	81.1	75.3	78.2	+0.9	77.9	+1.0	79.6	+1.1	0.71	18	— 45	7	2.29	—0.16	24	7.4	7.2	6.6	1047	—	993	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—FEBRUARY, 1921. [1914.]

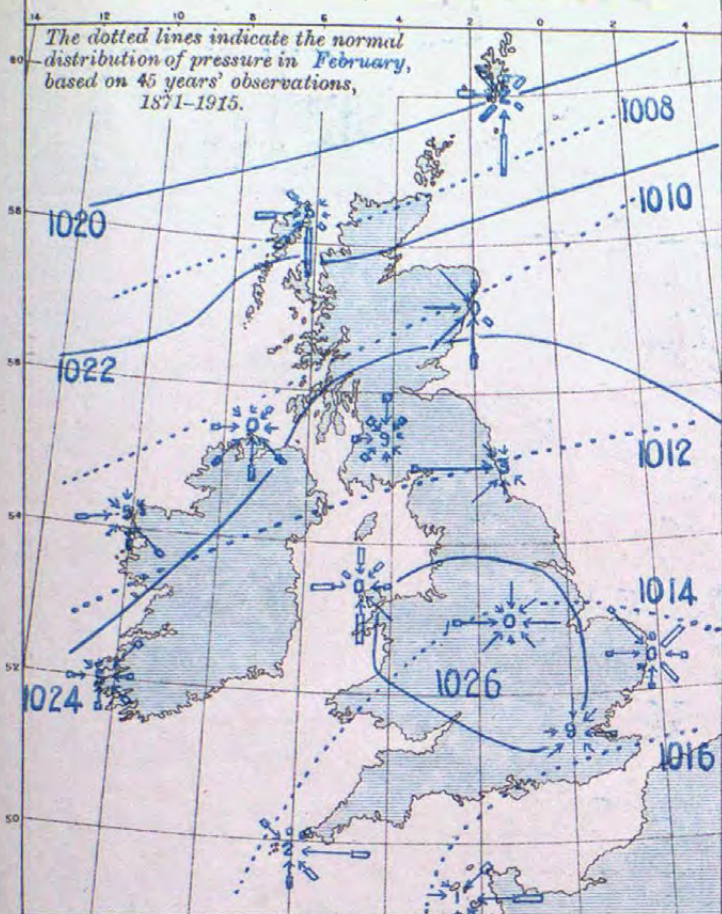
DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 35 mi/hr.		8 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.	Direction and Speed.	Mid Time.	Speed.	Date.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hour.	m/s.	d.	h.	m.
Deerness (Cup Anr.) ...	188	16	5	4, 15, 17	3	19	193	281	166	24	0	250	18	15	12	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	0	0	42	445	182	3	330	8	17	13	19	17	14	25
†Aberdeen (Cup Anr.) ...	120	72	12	—	0	1	1	114	473	84	0	300	11	17	14	—	—	—	—
Balmakewan ...	140	25	18	—	0	0	0	105	249	245	73	260	11	15	13	17	15	6	55
Rosyth ...	85	73	19	—	0	6	38	172	321	141	0	240	15	15	13	24	15	12	45
Edinburgh ...	485	39	31	—	0	4	39	211	302	120	0	270	16	15	16	25	15	17	10
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	13	1	6	36	125	243	264	3	300	17	13	10	27	13	13	20
Paisley ...	188	81	15	—	0	2	4	139	395	130	4	290	13	27	17	25	28	9	0
2. ENGLAND, N.E.																			
Alawick Castle ...	340	70	17	—	0	1	2	44	283	340	3	?	11	28	6	22	28	6	30
South Shields ...	72	61	12	—	0	3	11	128	402	131	0	280	14	15	12	23	15	12	15
Spurn Head ...	66	40	†	Instrument discontinued.															
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	0	0	0	241	371	60	0	100	10	5	21	17	10	8	25
Felixstowe ...	51	30	18	—	0	0	0	129	430	105	8	290	8	16	4	14	10	11	20
Shoeburyness ...	103	90	†	—	0	0	0	123	433	111	5	130	10	4	21	14	10	15	10
4. MIDLAND COUNTIES																			
Benson ...	270	84	†	—	0	0	0	70	440	162	0	90	10	5	2	14	5	4	25
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	0	2	25	216	370	61	0	90	15	5	3	18	5	13	25
Brighton ...	201	53	6	—	0	0	0	62	367	243	0	—	9	25	23	17	25	23	5
Isle of Grain ...	46	45	30	—	0	0	0	69	381	218	4	90	8	5	3	13	10	14	40
Richmond (Kew Obs.) ...	82	65	22	—	0	0	0	267	329	44	22	300	13	15	15	17	15	15	30
Larkhill (S'y Plain) ...	513	63	43	—	0	3	10												
7. ENGLAND, N.W.																			
Fleetwood (Cup Anr.) ...	109	44	—	—	0	4	10	203	397	62	0	280	13	17	16	—	—	—	—
Southport ...	80	62	48	—	0	5	34	253	342	43	0	250	14	16	1	18	15	19	50
Holyhead ...	60	40	†	—	0	5	17	311	313	31	0	250	13	15	23	18	15	20	40
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	4, 5	21	11	55	254	164	164	14	—	20	5	5	26	5	6	0
Plymouth ...	185	88	2	—	0	2	30	161	385	96	0	—	14	5	1	22	5	0	20
Lyme Regis ...	556	61	†	—	0	2	11	70	98	493	0	—	14	5	2	19	5	2	15
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	—	0	7	47	303	279	0	0	240	17	15	12	—	—	—	—
Quilty ...	100	40	†	—	0	7	50	292	283	32	15	—	15	7	12	22	4	3	50
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	4	11	240	324	97	0	150	16	4	3	26	4	2	30
Weaver Pt. ...	160	30	†	4	1	6	59	208	386	18	0	—	17	4	6	25	4	5	45
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	—	0	3	9	220	295	143	5	110	12	4	22	19	4	20	10

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to the Tables of the W. W. R.]

* Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory. † Tube Anemograph out of order since February 5th, 1920.

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

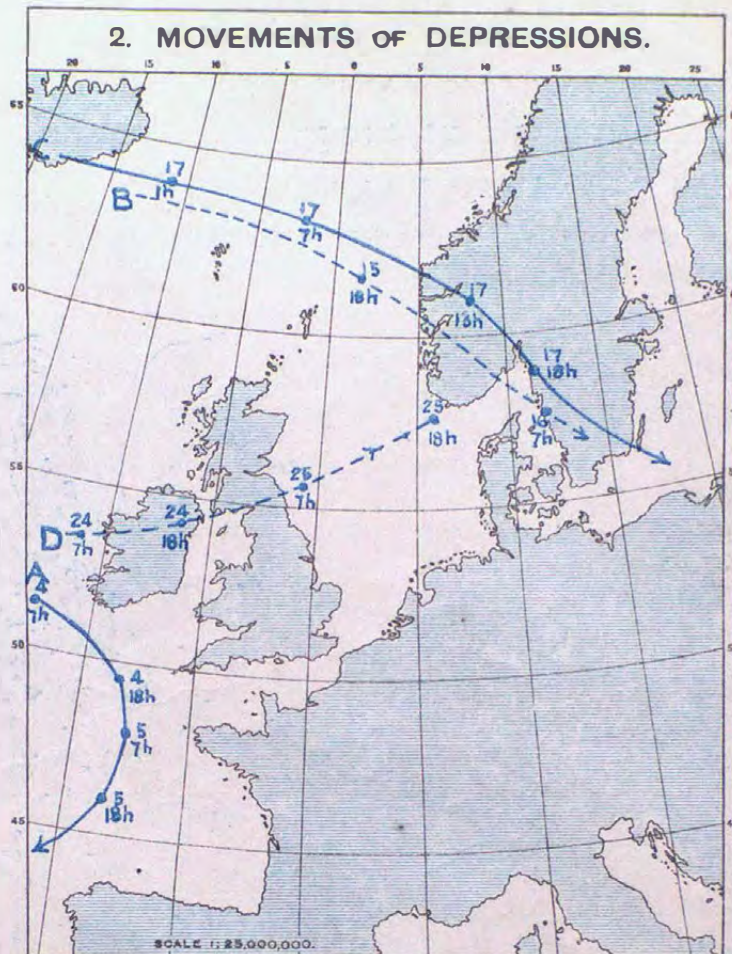
The dotted lines indicate the normal distribution of pressure in February, based on 45 years' observations, 1871-1915.



WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:

30 Obs = 1 inch

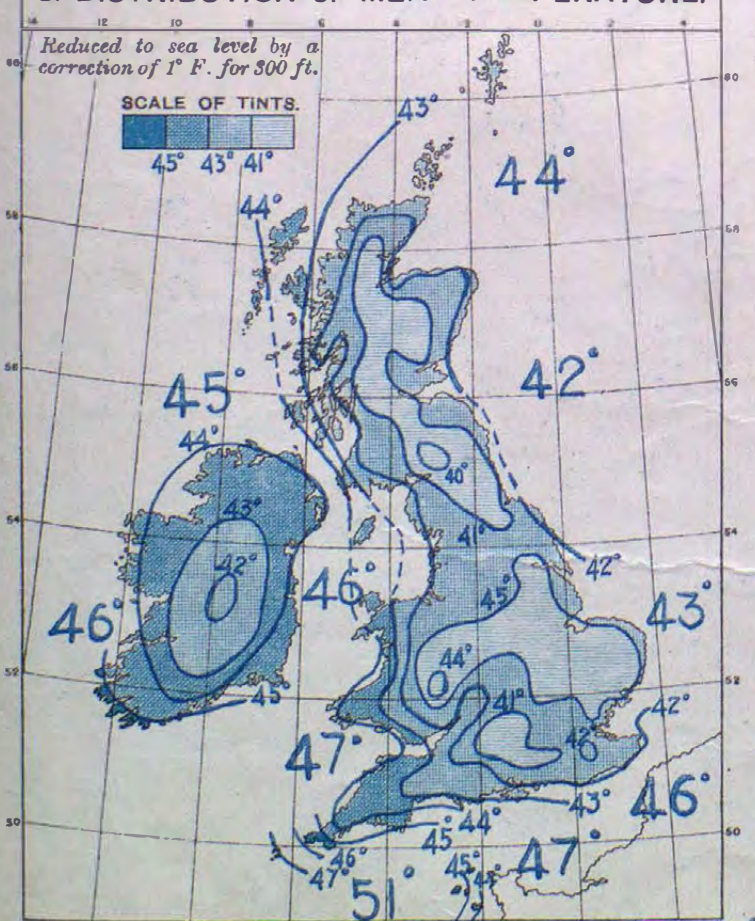
2. MOVEMENTS OF DEPRESSIONS.



Broken lines show approximate tracks of secondary depressions

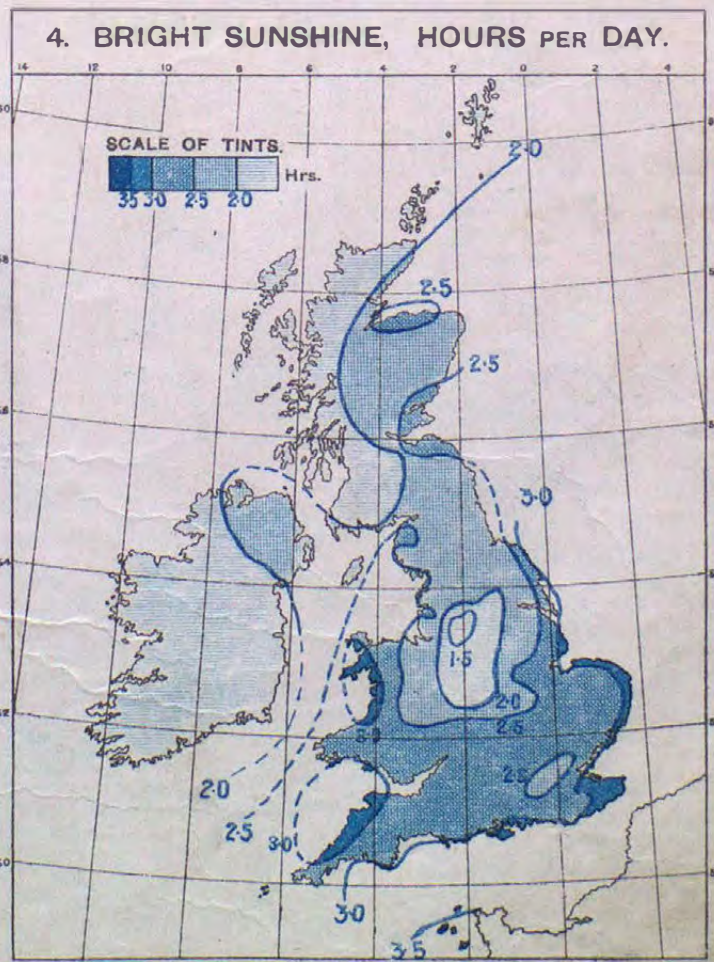
3. DISTRIBUTION OF MEAN TEMPERATURE.

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



Sea temperatures are shown in large figures, thus: 42

4. BRIGHT SUNSHINE, HOURS PER DAY.



* The pressure is expressed in millibars. The means used are corrected for diurnal range.

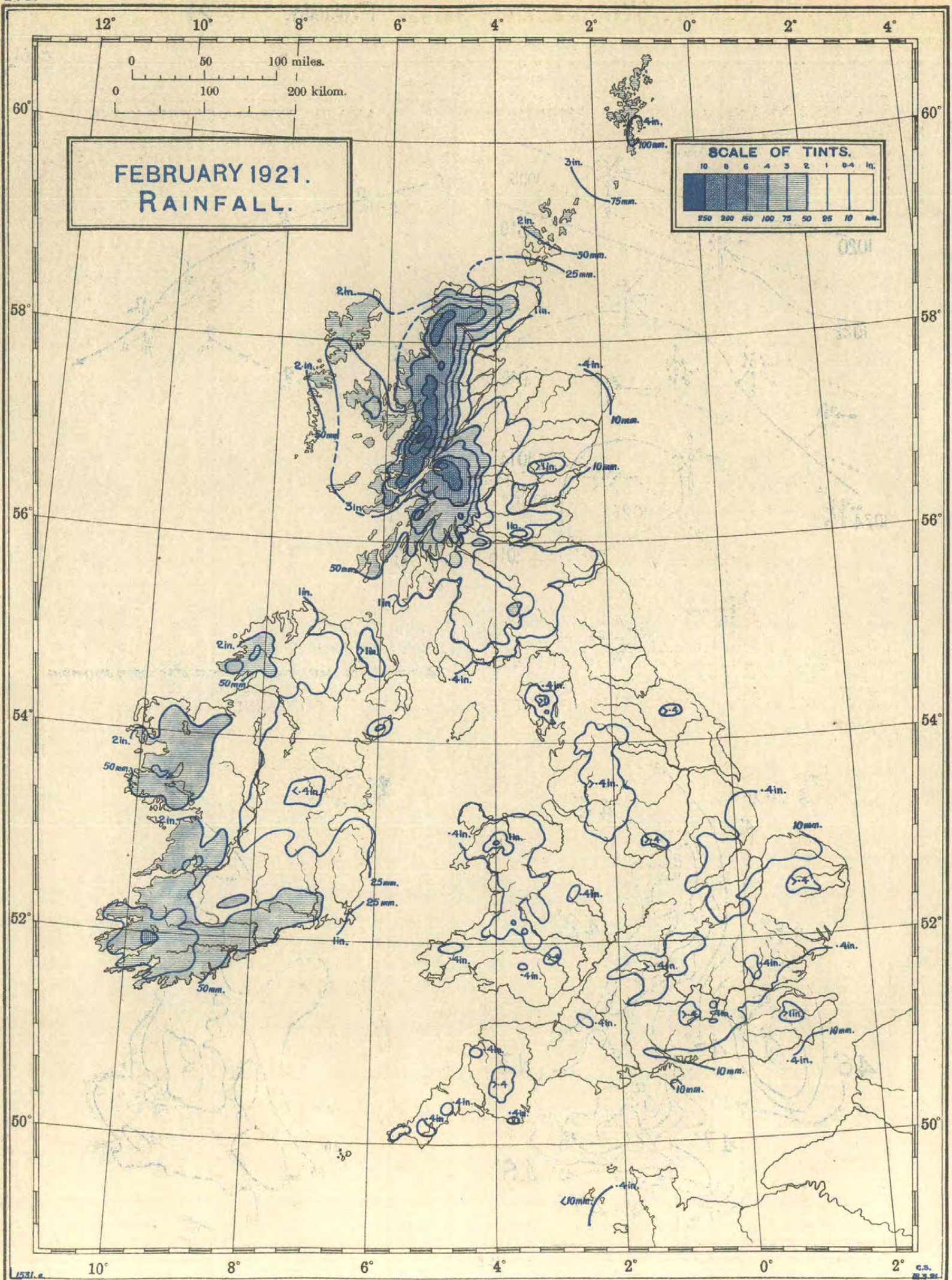


TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.			Height of Station above Mean Sea Level	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7, 8 or 9 ft.		RAINFALL				WEATHER. Number of days.										BRIGHT SUNSHINE.		
					Means of			Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.			Most in a day		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.						
					A	B	Maximum.		Date.	Minimum.	Date.	Amount.					Date.	Daily Mean.									Deviation from Normal.	Per Cent.					
					Max.	Min.																							Max.	Min.			
1. SCOTLAND, E.																																	
O. - SCOTLAND, N.	Shetlands.	Balsacound	9	9	9	31	45.9	38.1	42.0	—	50	24th	31	10th	40.4	—	3.92	100	—	20	14th	22	16	1	0	9	0	0	—	3	1.21	—	14
		Lerwick	7	7	7	54	45.9	38.2	42.1	+3.8	49	24, 25	32	1st	—	—	4.03	102	+ 22	21	14th	21	18	0	0	4	0	0	—	2	—	—	—
Orkneys.	Deerness	21	21	9	160	45.8	39.0	42.4	+3.9	49	6, 27	35	1st	—	—	2.15	55	— 22	17	24th	17	15	1	0	0	0	0	—	3	1.57	— 0.34	17	
	Kirkwall	9	9	9	100	—	—	—	—	—	—	—	—	—	—	1.78	45	—	13	24th	15	10	1	0	1	0	0	—	1	—	—	—	
Hebrides.	Castellbay	7	7	7	87	46.8	42.5	44.7	—	50	15, 16	39	1, 2, 10, 25	—	—	1.17	30	—	6	3rd	16	9	0	0	2	0	0	—	1	1.61	—	17	
	Stornoway	7	7	7	51	46.6	39.7	43.2	+4.0	50	15, 16, 27	31	6th	—	—	2.52	64	— 49	10	3rd	19	15	0	0	0	0	0	—	0	1.54	— 0.52	17	
Caithness.	Wick	7	7	7	81	46.2	37.6	41.9	+4.1	53	27th	31	19th	—	—	1.13	29	— 29	9	24th	16	10	1	0	1	0	0	—	3	—	—	—	
Sutherland.	Dunrobin	9	9	9	12	47.4	36.4	41.9	+3.4	54	27th	30	5th	38.8	—	0.82	21	— 44	8	24th	11	5	1	0	0	0	0	12	0	—	—	—	
Ross and Cromarty.	Fortrose	9	9	9	69	46.8	36.7	41.8	—	54	26th	29	6th	—	—	0.83	21	—	8	9th	9	3	0	0	0	0	0	—	0	2.39	—	26	
	Glencarron	21	21	9	500	44.7	35.6	40.2	+3.1	54	21st	26	6th	—	—	6.82	173	— 14	43	14th	15	14	0	0	0	0	0	—	0	—	—	—	
	Strathpeffer	9	9	9	125	45.1	33.3	39.2	+1.6	53	27th	23	7th	—	—	0.96	24	— 44	10	24th	5	4	0	0	0	0	0	—	0	—	—	—	
Inverness.	Ft. Augustus	9	9	9	68	47.5	34.1	40.8	+3.1	54	16, 21, 22	26	6, 10, 11	—	—	1.13	29	— 77	7	24th	6	6	0	0	0	0	0	—	0	—	—	—	
	Ft. William	21	21	9	171	46.4	36.7	41.6	+2.8	52	16, 21, 22	27	10th	—	—	3.79	96	— 93	21	15th	15	13	0	0	0	0	2	—	0	—	—	—	
	Inverness	21	21	9	98	48.6	36.6	42.6	—	55	22, 27	27	6th	38.7	—	0.58	15	— 40	9	24th	8	4	0	0	0	0	1	8	1	2.79	—	30	
2. SCOTLAND, E.																																	
Nairn.	Nairn	7	7	7	82	46.2	34.2	40.2	+2.4	54	27th	25	21, 22	—	—	0.61	16	— 30	10	24th	11	3	0	0	0	0	0	—	0	2.68	—	29	
	Gordon Castle	21	21	9	101	47.3	30.5	41.9	+3.3	55	27, 28	27	21st	—	—	0.45	11	— 38	6	24th	7	3	0	0	0	0	0	—	0	2.64	—	28	
Banff.	Banff	9	9	9	6	47.0	36.2	41.6	—	55	27, 28	26	3rd	—	—	0.63	16	—	7	24th	11	5	1	0	0	0	0	16	0	2.36	—	25	
Aberdeen.	Aberdeen	24	24	24	46	46.0	37.9	42.0	+3.7	56	28th	32	19th	—	41.0	0.60	15	— 37	4	1st	10	7	1	0	1	0	8	10	0	1.61	— 0.98	17	
	Balmoral	9	9	9	930	44.4	31.0	37.7	—	54	21st	21	21st	—	—	0.32	8	— 60	3	24th	10	3	3	0	0	0	0	18	0	—	—	—	
	Braemar	21	21	9	112	44.3	30.0	37.2	+2.8	51	16, 21	14	8th	—	—	0.56	14	— 55	11	24th	4	3	2	0	0	0	0	19	0	—	—	—	
	Logie Coldstone	9	9	9	608	45.8	33.0	39.4	—	55	28th	18	3rd	—	—	0.44	11	— 42	4	24th	9	4	2	0	0	0	0	21	0	—	—	—	
Kincardine.	Crathes	9	9	9	140	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	2.07	— 0.73	22		
	Arbroath	9	9	9	67	47.7	35.9	41.8	—	59	16th	28	3, 4	—	—	0.30	8	—	3	24th	6	3	0	0	0	0	2	—	0	—	—	—	
Forfar.	Carnoustie	9	9	9	39	47.0	30.1	41.6	—	57	16, 27	30	3, 11, 21	—	—	0.17	4	—	1	24th	6	1	0	0	0	0	0	—	0	2.71	—	29	
	Dundee	21	21	9	160	45.3	34.7	40.0	+2.5	56	16th	28	10, 11	—	—	0.46	12	— 36	5	24th	7	5	1	0	0	0	0	—	0	—	—	—	
	(E. Necropolis).	9	9	9	244	46.4	33.5	40.0	—	58	16th	25	3rd	37.4	—	0.49	12	—	6	24th	7	3	2	1	0	0	0	21	0	2.96	—	31	
	Coll. Gdn.	9	9	9	218	47.3	33.0	40.2	—	57	16th	23	3rd	—	—	0.36	9	—	5	24th	5	3	1	0	0	0	0	18	0	—	—	—	
	Kettins	9	9	9	720	—	—	—	—	—	—	—	—	—	—	1.46	37	—	21	24th	7	7	2	0	0	0	0	—	—	—	—	—	
	Lednathie	9	9	9	16	47.5	35.4	41.5	—	55	14, 16, 17	25	3rd	—	—	0.50	13	—	4	24th	5	5	0	0	0	0	2	—	0	2.50	—	27	
Perth.	Montrose	9	9	9	16	47.5	35.4	41.5	—	55	14, 16, 17	25	3rd	—	—	0.50	13	—	4	24th	5	5	0	0	0	0	2	—	0	2.50	—	27	
	Crieff	21	21	9	478	45.2	34.8	40.0	+2.1	57	16th	27	22nd	—	—	0.59	15	— 74	8	24th	7	3	2	0	0	0	0	—	0	—	—	—	
Fife.	Perth	9	9	9	76	46.7	33.9	40.3	+2.7	58	16th	24	3rd	—	—	0.32	8	— 50	6	24th	2	2	0	0	0	0	6	—	0	2.29	—	24	
	Cupar	9	9	9	210	46.7	34.4	40.6	—	57	16th	28	3, 21, 23	—	—	0.34	9	—	5	24th	6	3	3	0	0	0	2	—	0	—	—	—	
	Kirkcaldy	9	9	9	66	46.8	30.0	41.4	—	57	16th	29	3rd	—	—	0.34	9	—	5	24th	4	2	0	0	0	0	0	—	0	—	—	—	
	St. Andrews	9	9	9	20	46.7	34.4	40.6	—	56	16th	25	3rd	38.6	41.2	0.30	8	—	3	6th	6	4	0	0	0	0	0	—	0	3.04	—	32	
Linlithgow.	Bangour	21	21	9	587	43.6	33.7	38.7	—	52	16th	25	22nd	—	—	0.47	12	—	6	24th	8	4	2	0	0	0	0	—	0	—	—	—	
Edinburgh.	Dalkeith	9	9	9	190	45.8	34.9	40.4	—	55	16th	25	21st	—	—	0.46	12	—	10	1st	3	2	0	0	0	0	0	—	0	—	—	—	
	Blackford Hill	21	21	9	441	45.1	30.7	40.9	+2.6	54	16th	29	21st	—	—	0.51	13	— 27	10	1st	3	2	1	0	0	0	0	11	0	3.04	+ 0.27	32	
	Liberton	9	9	9	190	46.0	36.4	41.2	—	55	16th	25	21, 22	—	—	0.59	15	—	12	1st	3	2	0	0	0	0	0	—	0	—	—	—	
	Edinburgh Univ.	9	9	9	227	46.0	37.5	41.8	—	55	16th	31	21st	38.5	41.3	0.43	11	— 29	7	1st	5	2	0	0	0	0	0	—	0	—	—	—	
	Leith	7	7	7	30	46.0	36.3	41.2	+1.7	56	16th	30	21, 22	—	—	0.49	13	— 23	5	24th	7	3	0	0	0	0	0	13	0	—	—	—	
Haddington.	Smeaton	9	9	9	100	46.7	34.6	40.7	—	56	16th	26	21st	38.5	—	0.26	7	—	5	1st	2	2	0	0	0	0	0	—	0	—	—	—	
	Marholm	21	21	9	498	45.1	34.6	39.9	+2.7	55	16th	27	21st	—	—	0.60	15	— 38	9	1st	5	5	1	1	0	0	0	—	0	2.39	+ 0.01	25	
Berwick.	Glen																																

TABLE III. (continued).--SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					Means of		Devia- tion from Normal.	Absolute Maximum and Minimum.			Total Fall.	Devia- tion from Normal.			Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st	hr.	hr.	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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Northum-berland.	Alnwick	9	9	9	181	45.9	35.1	40.5	+2.0	55	16th	26	3rd	—	—	0.18	5	—	44	2	7th	4	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0</

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1921

DISTRICT, COUNTY AND PLACE.				Terminal Hours of Observation		Height of Station above Mean Sea Level		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 ft.		RAINFALL.				WEATHER, Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
								Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.				
						Means of		Devia- tion from Normal.	Absolute Maximum and Minimum.				Total Fall.			Devia- tion from Normal.	Most in a day		Precipitation. Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
									Maximum.	Date.	Minimum.	Date.															Amount.	Date.	Daily Mean.	Devia- tion from Normal.	Per Cent.	
																																A	B	Max.	Min.	Mean of A and B.
7a. ENGLAND, N.W.																																
Cumberland.	Aspatria (Mealsgate) 18	21 21	9	487	44.8	35.1	40.0	+1.4	56	21st	25	10th	40.0	43.0	0.28	7	—	71	4	24th	5	2	0	0	0	0	1	13	0	2.64	+0.26	28
	Egremont	21 21	9	349	45.9	36.1	41.0	—	56	21st	29	11th	39.8	42.7	0.41	10	—	7	24th	6	2	0	0	0	0	0	10	0	2.32	—	24	
	Keswick	9 9	9	254	46.6	34.7	40.7	—	55	21, 24	23	10, 11	40.2	43.5	0.27	7	—	4	24th	8	1	0	0	0	0	0	15	0	3.11	—	32	
	Newton Rigg 18	21 21	9	559	44.8	33.4	39.1	+2.0	54	21st	20	10th	—	—	0.20	5	—	77	3	1st	5	2	0	0	0	0	14	0	2.18	—0.05	23	
	Scaaby	9 9	9	111	46.3	34.0	40.2	+1.9	57	21, 24	23	10th	—	—	0.21	5	—	52	3	24th	7	1	0	0	0	0	2	—	—	—	—	
Lancashire.	Blackpool 18	9 9	9	66	45.7	37.3	41.5	+2.2	55	24th	30	18th	41.7	44.5	0.32	8	—	49	6	24th	6	2	0	0	0	0	0	8	0	2.86	+0.24	30
	Blundellsands	9 9	9	34	45.6	36.9	41.3	—	55	23rd	27	10th	40.6	43.9	0.22	6	—	5	24th	5	1	0	0	0	0	2	13	0	—	—	—	
	Bolton	9 9	9	341	44.9	36.3	40.6	—	55	23rd	31	3, 10	39.6	42.5	0.44	11	—	5	15th	7	2	0	0	0	0	0	6	0	0.71	—	7	
	Burnley	9 9	9	458	44.0	34.5	39.3	—	56	23rd	25	10th	39.2	42.8	0.50	13	—	5	15th	7	2	—	—	—	—	13	—	1.93	—	20		
	Darwen	21 21	9	722	43.8	35.1	39.5	—	54	24th	30	22nd	38.8	41.5	0.46	12	—	5	15th	10	2	0	0	0	0	1	19	0	2.00	—	21	
	Hutton	9 9	9	82	46.0	35.1	40.6	—	58	23rd	25	10th	40.3	43.4	0.17	4	—	3	24th	4	1	0	0	0	0	2	11	0	2.36	—	24	
	Lancaster	9 9	9	311	46.0	36.6	41.3	—	56	23, 24	31	10th	41.3	44.2	0.27	7	—	4	24th	5	2	0	0	0	0	1	9	0	2.75	—	28	
	Leyland	9 9	9	124	46.0	34.8	40.4	—	57	23rd	24	10th	—	—	0.20	5	—	4	24th	5	1	0	0	0	0	1	12	0	2.61	—	27	
	Morecambe	9 18	9	24	44.9	36.8	40.9	—	56	24th	28	11th	—	—	0.26	7	—	4	24th	6	1	0	0	0	0	0	—	—	—	—	—	
	Southport 18	9 9	9	37	45.2	36.0	40.6	+1.0	56	23rd	28	10th	39.3	42.2	0.38	10	—	43	7	24th	5	2	0	0	0	0	2	10	0	2.25	—0.30	23
	Stonyhurst 18	9 9	9	375	45.2	36.4	40.8	+2.3	54	23rd	30	10th	—	—	0.63	16	—	69	8	15th	7	2	0	0	0	0	2	9	0	2.21	+0.12	23
	Liverpool.	Bidston	21 21	9	188	45.2	37.8	41.5	+1.6	54	23rd	32	22nd	—	—	0.19	5	—	38	3	24th	4	1	0	0	0	0	4	12	0	2.43	—	25
Manchester.	Whitworth Pk. 18	21 21	9	125	46.8	36.2	41.5	+1.4	57	23rd	26	10th	—	—	0.36	9	—	40	4	24th	7	4	0	0	0	0	2	—	—	0.82	—0.60	8
	Oldham Road	21 21	9	190	46.4	36.7	41.6	+1.2	57	23rd	29	21st	40.0	44.1	0.38	10	—	46	3	22, 24	6	4	0	0	0	0	1	2	0	0.93	—0.35	10
	Alex. Park	7 7	7	99	46.4	34.3	40.4	—	57	23rd	20	10th	—	—	0.36	9	—	4	25th	4	4	0	0	0	0	6	13	0	—	—	—	
Cheshire.	Hawarden Brge. 18	9 9	9	22	46.3	37.9	42.1	+1.5	57	23rd	31	10th	—	—	0.28	7	—	29	3	24th	7	3	—	—	—	—	—	—	—	—	—	
	Hoyle	9 9	9	30	47.2	36.4	41.8	+1.1	57	23rd	28	10th	—	—	0.08	2	—	41	1	24th	2	1	—	—	—	—	—	—	—	2.43	+0.02	25
	Macclesfield	9 9	9	500	44.3	35.0	39.7	+1.7	57	23rd	26	10th	—	—	0.60	15	—	40	6	24th	7	4	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																																
Flint.	Rhyl	9 9	9	30	46.1	37.4	41.8	+0.9	56	24th	27	10th	—	—	0.35	9	—	28	8	24th	5	1	0	0	0	0	0	8	0	2.39	—0.38	25
	Holyhead	7 7	7	15	47.9	38.9	43.4	+1.7	57	21st	32	21st	—	—	0.42	11	—	51	6	24th	5	2	0	0	0	0	0	5	0	2.96	—	30
	Colwyn Bay	9 9	9	81	47.2	37.7	42.5	—	59	24th	30	10th	—	—	0.50	13	—	10	24th	3	3	—	—	—	—	—	—	—	—	2.82	—	29
	Llandudno 18	21 21	9	22	47.3	38.0	42.7	+1.0	57	21, 22	26	10th	—	—	0.39	10	—	43	8	24th	4	1	0	0	0	0	0	—	—	2.64	+0.16	27
Merioneth.	Aberdovey	9 9	9	60	48.6	39.4	44.0	+1.8	58	22nd	31	10th	—	—	0.30	8	—	5	24th	4	3	0	0	0	0	0	—	—	3.07	+0.45	31	
	Welshpool	9 9	9	262	46.0	33.6	39.8	—	53	16, 24	24	10th	—	—	0.46	12	—	7	25th	4	2	0	0	0	0	1	—	—	—	—	—	
Montgomery.	Aberystwyth	9 9	9	16	47.2	38.1	42.7	—	57	22nd	29	10th	—	—	0.33	8	—	6	24th	5	2	0	0	0	0	0	—	—	3.14	+0.62	32	
	Haverfordwest	21 21	9	250	46.9	37.8	42.4	—	53	23rd	31	6, 10	—	—	0.41	10	—	78	3	25th	6	5	0	0	0	0	2	—	—	2.64	+0.05	27
	St. Ann's Hd. 18	7 7	7	149	46.9	40.2	43.6	+1.3	51	14th	35	10, 11	—	—	0.23	6	—	62	2	3rd	7	2	0	0	0	0	1	—	—	2.71	+0.01	27
	Tenby	9 9	9	64	48.0	39.6	43.8	—	54	16th	33	27th	—	—	0.16	4	—	2	24th	5	2	0	0	0	0	0	7	—	—	2.96	+0.19	30
Brecknock.	Gwernyfed Pk.	9 9	9	374	46.1	31.1	38.6	—0.1	60	24th	22	10th	—	—	0.10	3	—	55	2	24th	3	1	0	0	0	0	1	—	—	—	—	—
	Rhayader 18	9 9	9	757	44.2	32.8	38.5	—	54	23rd	23	10, 27	—	—	0.33	8	—	5	24th	6	2	0	0	0	0	0	17	0	2.46	—	25	
	Cardiff	21 21	9	202	46.6	36.5	41.6	+1.6	58	23rd	31	10th	41.5	45.4	0.07	2	—	73	1	25th	2	1	0	0	0	0	0	16	0	2.63	—	27
	Swansea	9 9	9	25	47.9	39.3	43.6	—	54	23rd	31	11th	43.2	48.4	0.13	3	—	2	24th	4	1	0	0	0	0	0	16	0	2.39	—	24	
Monmouth.	Newport	9 9	9	32	47.3	36.5	41.9	—	58	23rd	31	27th	42.1	46.3	0.06	2	—	1	25th	2	1	0	0	0	0	1	—	—	—	—	—	
8b. ENGLAND, S.W.																																
Somerset.	Bath	9 9	9	66	47.8	35.3	41.6	+1.3	59	23rd	27	27th	42.5	45.9	0.29	7	—	46	6	25th	3	2	0	0	0	0	0	—	—	2.57	—0.05	26
	Long Ashton	9 9	9	162	47.6	35.1	41.4	—	59	23rd	29	10, 21, 27	42.1	—	0.27	7	—	4	24th	2	2	0	0	0	0	0	0	17	0	2.46	—	25
	Weston s. Mare	9 18	9	29	48.1	36.6	42.4	+1.0	59	23rd	29	27th	—	—	0.13	3	—	44	1.5	24, 25	3	2	0	0	0	0	0	15	0	2.46	—	25
	Dorchester	9 9	9	314	46.3	34.2	40.3	—																								

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
								Means of		Deviation from Normal.	Absolute Maximum and Minimum.					Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE III. (a).—ADDITIONAL VALUES OF SUNSHINE. FEBRUARY, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs	3.04	+0.10	31
Hove	3.07	—	31
Watergate	3.18	—	32
LONDON, Bunhill Row	1.36	+0.23	14

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h...	46	41	43.5	+1.8

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets. Birmingham (7), Ross on Wye (10), Glasgow (17), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked *g*, where Glaisher stands are in use. When the Maximum thermometer is read in the morning the reading is credited to the previous day.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

TABLES III. and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871-1915; Temperature, Rainfall and Sunshine for the 35 years 1881-1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The symbols ∇ , $\$$ placed against the names of stations in Table III. indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.				HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.			No. of days of		Number of observations adjusted to a total of 84 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.								Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observations.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.	No. of days of Clear Sky.	No. of days of Overcast.	Number of Observations adjusted to a total of 84 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.												
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.		No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 84 for the month.												
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.							Force(0-12).			Direction.									
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.																	
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			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.	
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9, -, 21	485	007.3	—	25.5	39.2	—	39.2	1.9	—	1.6	7.0	—	7.1	84	—	86	5.7	—	5.2	7	12	0	6	0	6	6	3	27	15	16	7		
Lancashire.	Blackpool	H 9, -, -	73	023.5	—	25.9	40.6	—	—	1.5	—	—	7.6	—	—	88	—	—	6.8	—	—	—	—	0	24	12	2	6	15	19	2	6	12	10	
	Darwen	H 9, -, 21	730	99.7	—	26.2	39.2	—	39.3	2.2	—	2.0	6.6	—	6.8	82	—	84	7.2	—	7.4	0	12	0	21	0	6	1	9	10	23	6	24	5	
	Leyland	... 9, 15, -	—	—	—	—	38.7	45.1	—	1.7	3.5	—	6.9	7.5	—	86	75	—	7.3	7.0	—	2	13	0	23	0	12	12	17	12	1	4	11	15	
	Southport	H 9, 15, 21	42	024.7	—	26.2	39.0	44.5	40.6	1.1	2.8	1.5	7.4	8.0	7.6	91	81	89	7.1	6.8	7.3	0	11	0	33	10	4	2	20	16	4	10	10	8	
	Stonyhurst	... 9, -, 21	363	012.8	—	26.4	39.2	—	40.3	1.8	—	1.8	7.0	—	7.2	85	—	86	6.5	—	7.6	2	13	0	11	15	6	7	20	6	6	8	12	4	
Liverpool.	Bidston ...	... 9, -, 21	202	018.7	+12.7	26.1	39.7	—	41.4	2.1	—	2.3	6.9	—	7.2	83	—	83	6.7	—	7.7	1	13	0	20	6	3	3	12	24	3	2	18	13
Manchester.	Whitworth Pk. H	9, -, 21	127	021.1	—	25.7	40.7	—	42.3	1.3	—	1.1	7.6	—	8.3	90	—	92	7.1	—	7.6	2	15	0	17	14	6	7	12	10	9	3	17	6	
	Oldham Rd. H	9, -, 21	195	019.1	—	26.4	40.3	—	42.8	1.9	—	2.5	7.2	—	7.6	85	—	81	—	—	—	—	—	0	9	0	11	9	13	12	3	9	12	15	
	Alex. Park ...	7, 13, 18	99	022.2	—	26.0	37.7	44.8	41.9	1.3	3.2	1.9	6.8	7.7	7.6	89	77	86	3.2	7.9	7.7	1	17	0	14	2	4	8	18	14	10	2	20	9	
Anglesey.	Holyhead ...	7, 13, 21	25	024.2	+12.4	25.2	42.2	47.0	43.8	1.3	2.6	1.3	8.1	8.9	8.7	90	82	90	6.5	6.4	6.1	5	12	0	60	0	10	10	10	12	18	7	11	6	
(arnarvon.)	Llandudno ...	9, -, 21	21	026.8	—	27.2	41.9	—	42.6	2.5	—	2.2	7.3	—	7.6	82	—	84	7.7	—	6.7	3	15	0	2	0	9	4	14	11	9	7	23	7	
8. ENGLAND, S.W.																																			
Fembroke.	St. Ann's Head	7, 13, 21	150	019.8	+12.1	25.7	42.3	45.7	43.5	1.3	2.4	1.4	8.2	8.6	8.5	90	83	89	7.6	6.7	6.3	3	12	0	23	1	13	10	27	12	2	2	9	8	
Glamorgan.	Cardiff ...	... 9, -, 21	216	017.7	—	25.6	41.6	—	40.6	2.4	—	2.4	7.2	—	7.0	82	—	82	—	—	—	—	—	0	6	2	6	15	24	18	4	0	3	12
Somerset.	Bath ...	... 9, -, -	84	022.4	+10.6	25.5	40.7	—	—	1.9	—	—	7.3	—	—	85	—	—	7.3	—	—	—	—	0	0	18	4	17	25	5	0	1	8	6
Dorset.	Holton Heath ...	9, 15, -	58	023.3	—	25.7	40.3	46.5	—	1.1	3.4	—	7.7	8.2	—	90	76	—	7.4	7.1	—	3	16	0	23	14	15	12	18	3	3	6	3	10	
	Portland Bill ...	7, 13, 21	37	023.5	+9.4	24.9	43.1	45.6	43.9	2.0	1.8	1.8	8.0	9.0	8.3	84	87	86	7.0	6.8	5.8	0	7	5	52	2	12	20	22	6	4	1	10	7	
Devon.	Cullompton ...	9, -, -	—	—	—	—	40.2	—	—	1.4	—	—	7.4	—	—	89	—	—	7.5	—	—	—	—	0	3	0	24	9	12	15	9	3	3	9	
	Killerton ...	9, 15, -	—	—	—	—	41.1	48.0	—	2.5	2.5	—	7.0	9.2	—	80	83	—	6.2	5.0	—	4	3	—	—	—	—	—	—	—	—	—	—	—	
	Plymouth H	9, 15, 21	116	020.4	—	24.8	45.0	47.5	42.8	2.7	4.1	2.4	8.1	8.0	7.6	81	73	81	6.9	6.3	4.4	3	9	0	16	8	19	12	20	16	4	2	0	3	
	(The Hoe)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	(Cattewater)	7, 13, 21	47	023.2	—	24.9	41.0	47.1	42.1	1.7	3.9	2.2	7.4	8.0	7.5	86	73	83	7.4	7.2	4.7	2	10	0	16	9	9	17	25	9	3	2	4	6	
	Princetown ...	9, 15, -	1360	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Sheepstor H	9, 15, 21	730	997.5	—	25.0	40.4	46.0	38.5	2.8	3.5	1.1	7.3	7.9	7.2	88	76	90	5.6	4.8	4.2	8	7	2	36	5	6	20	14	18	6	5	2	8	
Cornwall.	Falmouth H	7, 13, 18	183	017.8	+9.3	24.8	42.4	47.6	45.0	1.5	3.2	2.2	8.2	8.8	8.5	88	78	84	7.6	7.7	6.1	2	15	0	26	0	16	16	15	18	5	2	4	8	
	Newquay ...	9, -, 18	161	018.5	—	24.3	43.5	—	44.9	1.6	—	2.0	8.4	—	8.6	87	—	86	7.0	—	6.0	4	13	0	23	1	14	10	18	26	3	1	3	8	
	Redruth H	9, 15, -	397	—	—	—	43.2	—	—	1.6	—	—	8.3	—	—	87	—	—	6.9	—	—	—	—	0	33	0	9	15	18	20	6	3	3	10	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9, -, 21	127	020.8	—	25.5	41.2	—	42.4	1.3	—	2.0	7.8	—	7.7	90	—	85	8.3	—	8.4	1	19	2	8	27	4	0	3	21	6	6	9	8	
Mayo.	Blacksod Point	7, 13, 21	30	022.2	+12.5	23.4	44.0	46.4	44.8	1.6	2.0	1.5	8.6	9.1	8.9	87	86	88	7.4	7.2	7.2	0	11	0	16	13	5	5	2	22	4	11	13	9	
Donegal	Malin Head ...	7, 13, 21	230	013.9	+13.2	22.9	43.3	45.3	43.8	0.7	1.0	0.7	9.0	9.4	9.1	95	92	95	8.5	7.6	8.3	0	14	0	16	0	1	3	6	15	18	15	17	9	
Down.	Donaghadee ...	7, 13, 21	38	023.7	+13.2	25.1	42.5	46.2	43.8	2.1	3.1	2.2	7.7	8.2	8.1	84	79	83	6.4	6.4	6.0	0	7	0	15	0	6	2	1	17	16	9	22	11	
Armagh.	Armagh H	9, -, 21	209	017.5	—	25.1	40.7	—	41.7	1.2	—	1.4	7.8	—	8.0	90	—	89	7.8	—	7.7	2	17	0	9	23	3	1	2	13	13	14	12	3	
10. IRELAND, S.																																			
Dublin.	Baldonnell ...	7, 13, 21	289	014.5	—	25.4	40.2	45.8	43.6	1.8	3.1	2.4	7.2	8.1	7.9	86	79	82	8.3	8.4	8.0	1	19	0	23	10	3	3	9	16	9	16	12	6	
	City ...	H 9, -, 21	53	023.6	—	25.6	41.7	—	43.3	2.0	—	2.2	7.6	—	7.9	85	—	83	7.2	—	7.9	2	18	0	8	8	1	1	8	23	6	1	27	9	
	Glasnevin H	9, -, 21	56	023.7	—	25.6	41.8	—	43.1	1.9	—	2.1	7.7	—	8.0	85	—	85	7.6	—	7.7	2	13	0	11	0	3	8	4	23	4	8	7	27	
	Phoenix Pk. H	9, -, 21	159	019.5	—	25.2	42.0	—	41.5	1.5	—	1.1	8.1	—	8.2	88	—	92	7.0	—	7.1	2	11	0	8	26	8	1	3	7	10	6	9	14	
	Trin. Coll. H	9, -, 21	167	025.1	—	25.6	44.3	—	44.1	2.2	—	1.9	8.3	—	8.4	84	—	86	7.4	—	8.3	2	17	0	3	6	0	1	8	20	7	1	38	3	
	Ranelagh ...	9, -, 21	74	022.7	—	25.4	41.8	—	42.4	1.5	—	1.5	7.9	—	8.1	88	—	88	7.5	—	8.1	2	18	0	18	12	6	1	6	23	3	6	19	8	
King's Co.	Birr Castle ...	7, 13, 18	173	018.4	+12.3	25.0	39.8	45.3	43.7	0.7	1.7	1.2	7.8	8.9	8.8	95	87	90	9.2	8.8	8.8	0	21	0	2	0	7	4	8	16	15	10	15	9	
Waterford.	Seskin, Carrick-on-Suir.	9, -, 21	522	005.9	—	25.5	40.8	—	41.4	0.9	—	1.3	8.0	—	7.9	93	—	90	8.5	—	7.6	2	20	0	9	12	6	3	18	4	9	4	11	17	
Limerick.	Mungret Coll. H	9, 15, -	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Cahirciveen (Val. Obs.) H	9, 15, 21	45	023.2	+12.2	24.9	44.6	47.5	45.3	2.5	3.6	2.7	8.2	8.4	8.3	82	76	80	8.5	8.3	6.8	0	17	0	23	16	10	10	13	16	6	7	2	4	
	Roches Point ...	7, 13, 18	42	023.9																															

TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, FEBRUARY, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.																																																																																																																																																																																													
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%																																																																																																																																																																																										
O. SCOTLAND, N.								2. ENGLAND, N.E.—cont.								8a. SOUTH WALES.																																																																																																																																																																																																				
Caith. Suth.	Thurso (Buckies) ...	240	1.43	36	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	0.15	4	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	0.30	8	6	Pem. Carm.	Fishguard (Goodwick Station) ...	57	0.43	11	—																																																																																																																																																																																													
	Dornoch (St. Gilbert's) ...	35	0.52	13	—		Lowthorpe (The Elms) ...	63	0.18	5	10		Aberystwyth (Gogerddan) ...	83	0.41	10	13		Carmarthen (The Friary) ...	62	0.22	6	—																																																																																																																																																																																													
	Loch More (Achfary) ...	167	6.31	160	—		Boston (Black Sluice) ...	11	0.44	11	30		Devil's Bridge ...	825	0.68	17	—		Llanddeusant (Ponterynfe) ...	323	0.15	4	—																																																																																																																																																																																													
	Melvich Schoolhouse ...	—	0.95	24	—		Grantham (Saltersford) ...	188	0.33	8	—		Lampeter (Falcondale) ...	498	0.36	9	—		Cardiff, W.W. (Beacons Res.) ...	1340	0.24	6	—																																																																																																																																																																																													
	Tongue Manse ...	180	1.34	34	—		Horncastle ...	110	0.35	9	—		Tregaron (Maes-y-bettws) ...	910	0.40	10	—		Crickhowell (Tal-y-maes) ...	1250	1.00	25	—																																																																																																																																																																																													
R. & C.	Alness (Ardross Castle) ...	450	0.88	22	27	Norf.	Aylsham (Rippon Hall) ...	90	0.46	12	—	Glam.	Port Talbot (Twyn-yr-hydd) ...	180	0.13	3	—	Treherbert (Tyn-y-waun) ...	801	0.22	6	—																																																																																																																																																																																														
	Loch Carron (Plockton) ...	4	2.75	70	—		Swaffham ...	250	0.31	8	20		Mon.	Llanfrehfa Grange ...	326	0.11	3		3																																																																																																																																																																																																	
Inv.	Loch Torridon (Bendamph) ...	20	3.70	94	47		Suff.	Thetford (Waterworks) ...	170	0.39	10	—		Som.	Newport W.W. (Newchurch) ...	550	0.21	5	—																																																																																																																																																																																																	
	Arisaig (Faire-na-Sguir) ...	130	3.73	95	—	Halesworth Rectory ...		50	0.23	6	—	Brushford Rectory ...	450		0.20	5	—																																																																																																																																																																																																			
	Cluny Castle ...	900	1.44	37	—	Hawkedon Rectory ...		305	0.14	4	9	Crewkerne (Merefield House) ...	231	0.25	6	—																																																																																																																																																																																																				
	Drumadrochit ...	138	1.09	28	36	Cambs.	Chatteris (The Priory) ...	45	0.49	12	—	Devon.	Cutcombe (Wheddon Cross) ...	945	0.18	5	—																																																																																																																																																																																																			
	Loch Arkaig (Achnacarry) ...	120	3.75	95	—		Ashwell (Odsey) ...	256	0.23	6	—		North Cadbury Rectory ...	256	0.24	6	—																																																																																																																																																																																																			
Aber.	Loch Quoich (Glenquoich) ...	569	7.89	200	76	Essex.	Elsenham (Gaunts End) ...	363	0.12	3	—	Corn.	Hartland Abbey ...	222	0.27	7	—																																																																																																																																																																																																			
	Loch Quoich (Loan) ...	650	14.28	363	—		Lexden (Hill House) ...	90	0.16	4	—		Launceston (Polapit Tamar) ...	315	0.22	6	7																																																																																																																																																																																																			
	N. Ballachulish (Alltshellach) ...	80	4.58	116	—	4. MIDLAND COUNTIES.								Mayo.	Aasleagh House ...	30	2.97	75	—																																																																																																																																																																																																	
	Skye (Dunvegan) ...	47	3.46	88	—	Yk. W.R. Derby.	Wath-upon-Deane (Chapel St.) ...	188	0.21	5	—	Crossmolina (Ennisceoe) ...	74		2.57	65	58																																																																																																																																																																																																			
	" (Portree) ...	65	4.01	102	—		Uppingham (Ridlington) ...	527	0.32	8	—	Delphi Lodge ...	110		3.12	79	—																																																																																																																																																																																																			
1. SCOTLAND, E.	Grantown-on-Spey ...	700	0.70	18	33		Notts. Rutl.	Pitsford (Sedgebrook) ...	311	0.31	8	19	Galw'y.		Westport House ...	35	2.59	66	—																																																																																																																																																																																																	
	Lhanbryde (Blackhills House) ...	300	0.68	17	—			Wellington (Swanspool) ...	155	0.30	8	19			Ballynahinch Castle ...	41	2.35	60	—																																																																																																																																																																																																	
	Aberdeen (Cranford House) ...	120	1.13	29	49			Farnborough ...	515	0.33	8	16		Galway (Grammar School) ...	60	1.84	47	—																																																																																																																																																																																																		
	Fyvie Castle ...	200	0.60	15	—	Oxford (Magdalen College) ...		186	0.56	14	35	Woodlawn ...		300	1.49	38	50																																																																																																																																																																																																			
	Logie Coldstone (Loanhead) ...	743	0.44	11	21	Oving House ...		515	0.37	9	—	Killybegs (Rockmount) ...		65	2.90	74	58																																																																																																																																																																																																			
Kinc.	Peterhead (Forehill Works) ...	133	0.71	18	—	Staff. Salop.	Lichfield (St. John Street) ...	269	0.23	6	—	Don.	Letterkenney (District Asylum) ...	183	1.62	41	—																																																																																																																																																																																																			
	Brechin (Trinity) ...	295	0.56	14	—		Church Stretton (Wolstaston) ...	800	0.37	9	17		Milford (The Manse) ...	150	1.67	42	—																																																																																																																																																																																																			
	Forf.	Glen Prosen (Pearsie House) ...	600	0.97	25		—	Shifnal (Hatton Grange) ...	262	0.31	8		19	Derry. Ant.	Londonderry (Creggan Res.) ...	320	1.53	39	48																																																																																																																																																																																																	
		Montrose (Sunnyside Asylum) ...	200	0.45	11		24	Wor.	Barn Green (Upwood) ...	650	0.15		4		—	Ballymena (Harryville) ...	150	1.44	37	44																																																																																																																																																																																																
		Aberfeldy (Dall Avon) ...	320	0.44	11		—		Blockley (Upton Wold) ...	800	0.31		8		14	Belfast (Cave Hill Road) ...	200	0.78	20	—																																																																																																																																																																																																
Balquhider (Stronvar) ...		422	1.81	46	25	Here.	Bromyard (Rowden Abbey) ...		456	0.28	7	—	Glenarm Castle ...		70	0.70	18	—																																																																																																																																																																																																		
Blair Atholl ...		—	0.76	19	—		Ledbury (Underdown) ...		307	0.23	6	—	Omagh (Edenfel) ...		280	1.01	26	34																																																																																																																																																																																																		
Perth.	Coupar Angus ...	183	0.42	11	20		Glous.		Cirencester (Dollarwood Ho.) ...	366	0.39	10	19	Tyrone.	Sion Mills (Sion House) ...	100	1.18	30	—																																																																																																																																																																																																	
	Glen Devon (Glenquey Res.) ...	945	1.20	30	—			Clifton (Stoke Bishop) ...	243	0.29	7	—	Banbridge (Milltown) ...		200	0.66	17	32																																																																																																																																																																																																		
	Killin (The Manse) ...	400	1.79	46	—			5. ENGLAND, S.E.	Mid. Kent.	Harrow Weald (Hill House) ...	284	0.18	5		—	Down.	Mourne Mts. (Fofanny Res.) ...	938	2.39	61	—																																																																																																																																																																																															
	Kirkmichael (Ballintuin Ho.) ...	700	0.81	21	—	Sevenoaks (Speldhurst Close) ...				470	0.69	18	—		Seaford ...		180	0.84	21	28																																																																																																																																																																																																
	Loch Dhu ...	—	2.50	64	34	Tenterden (View Tower) ...				190	0.64	16	32		Warrenpoint (Clonallon) ...		15	0.99	25	—																																																																																																																																																																																																
Loch Rannoch (Dall) ...	772	1.50	38	—	Reigate (Hartswood) ...	174	0.17			4	—	Enniskillen (Portora) ...	251	0.73	18		—																																																																																																																																																																																																			
Loch Venacher ...	275	1.20	30	25	Sussex.	Hailsham Vicarage ...	105			0.77	20	34	Ballymahon (New Castle) ...	250	0.56		14	—																																																																																																																																																																																																		
Midl. Had. Selk.	Balearno (Cockburn Hill) ...	767	0.89	23		—	Patching Farm ...	180	0.79	20	36	Meath.	Mullingar (Belvedere) ...	367	0.34	9	12																																																																																																																																																																																																			
	North Berwick Reservoir ...	150	0.30	8		19	Upton Nervet Rectory ...	308	0.32	8	—		Drogheda (Mullacroghan) ...	300	0.88	22	—																																																																																																																																																																																																			
	Etrick Manse ...	796	0.70	18		—	Ashley (Old Manor House) ...	235	0.27	7	—		10. IRELAND, S.																																																																																																																																																																																																							
	Selkirk (The Hangingshaw) ...	670	0.47	12		17	Fordingbridge (Oaklands) ...	135	0.39	10	16		Dublin.	Balbriggan (Ardgillan) ...	211	0.76	19	39																																																																																																																																																																																																		
	Hawick (Bransholme) ...	457	0.33	8	13	Devizes (Highclere) ...	480	0.45	11	—	Rathmines (Harold's Cross) ...			155	0.55	14	—																																																																																																																																																																																																			
Jedburgh (Jedneuk) ...	270	0.28	7	16	7a. ENGLAND, N.W.	Cumb. West. Lancs.	Borrowdale (Seathwaite) ...	423	1.30	33	11	Wick. K. Co. Car. Co. Wex. Wat.		Rathnew (Clonmannon) ...	27	0.84	21	—																																																																																																																																																																																																		
6. SCOTLAND, W.	Dalmally (Manse of Glenorchy) ...	150	5.79	147			—	7b. NORTH WALES.	Angl. Carn.	Orton ...	770			0.15	4	—	Kerry.	Ballycumber (Moorock Lodge) ...	228	—	—	—																																																																																																																																																																																														
	Eriska (Ledaig) ...	30	3.54	90			—			Dumf.	Garstang (Holme H. Bleasdale) ...			650	0.42	11		—	Tip.	Abbey Leix (Blandsfort) ...	532	1.12	28	42																																																																																																																																																																																												
	Inveraray Castle Gardens ...	40	2.76	70			41				Grange-over-Sands (Holmcroft) ...		330	0.28	7	—		Hacketstown Rectory ...		600	1.74	44	—																																																																																																																																																																																													
	Islay (Eallabus) ...	68	2.68	68			64				Lancaster (Strathspey) ...		87	0.31	8	—		Gorey (Courtown House) ...		60	1.11	28	40																																																																																																																																																																																													
	Mull (Quinish) ...	35	2.71	69	57	Nantwich (Dorfold Hall) ...	190				0.29	7	—	Tramore (Midvale) ...	115	2.01		51		—																																																																																																																																																																																																
Poltalloch ...	132	2.21	56	53	Ayr.	Glas'w. Ayr.	Dumf.	Durrisdeer (Drumlanrig) ...	191		1.18	30	—	Clare.	Waterford (Brook Lodge) ...	104	2.34	59		72																																																																																																																																																																																																
Bute Dougare Lodge ...	10	1.24	32	—				Kirk. Wigt.	Nor'd.	Yk. N.R.	Hoddam Castle ...	150	—		—	—	Lim. Kerry.	Cashel (Ballinamona) ...	257	1.72	44	—																																																																																																																																																																																														
Arrochar (Glen Loin) ...	50	3.66	93	—							2. ENGLAND, N.E.	Denb. Mer.	Mont.		Langholm (Drove Road) ...	270		0.38	10	—	Cork.	Clonmel (Bruce Villa) ...	110	2.03	52	—																																																																																																																																																																																										
Biggar ...	691	0.54	14	—											Nor'd.	Yk. N.R.		Dumf.	Moniaive (Maxwellton House) ...	400		1.12	28	—	Clare.	Nenagh (Castle Lough) ...	120	1.86	47	60																																																																																																																																																																																						
Queen's Park ...	114	0.83	21	28															Kirk. Wigt.	Nor'd.		Yk. N.R.	Carsphairn (Shiel) ...	850		1.72	44	—	Clare.	Traverston ...	330	1.16	30	—																																																																																																																																																																																		
Girvan (Pinmore) ...	207	0.98	25	25	Kirk. Wigt.	Nor'd.	Yk. N.R.							New Cumnock (Ayr Sanat'm.) ...									850	1.07		27	—	Clare.		Roscrea (Timoney Park) ...	475	1.15	29	—																																																																																																																																																																																		
Maybole (Knockdon Farm) ...	352	1.57	40	—				Kirk. Wigt.	Nor'd.	Yk. N.R.				Dumf.			Stoneykirk (Ardwell House) ...						65	0.71		18	27			Clare.	Broadford (Hurdlestown) ...	167	2.16	55	—																																																																																																																																																																																	
2. ENGLAND, N.E.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.							Nor'd.	Yk. N.R.	Dumf.				Kirk. Wigt.				Nor'd.		Yk. N.R.	Dumf.		Kirk. Wigt.	Nor'd.				Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.	Kirk. Wigt.	Nor'd.	Yk. N.R.	Dumf.

^a January 29·11 in. 739 mm.

DATE	NAME	REGIMENT	COMPANY	GRADE	STATUS	REMARKS
1901						
1						
2						
3						
4						
5						
6						
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MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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MARCH, 1921.

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MILD AND SHOWERY.

THE conditions over north-west Europe during March were of a westerly to south-westerly type, with frequent depressions in the neighbourhood of the Arctic circle, and relatively high pressure between the Azores and Central Europe. In the west and north of the British Isles the weather was stormy and unsettled, with a good deal of rain. In the south and east, and the adjacent regions on the Continent, the weather was mostly fair and dry. As in the two preceding months, there was a marked absence of severe wintry weather over western Europe generally, and even in Sweden there was little frost after the 9th. Brief incursions of Polar air were accompanied by snow in the northern districts of the British Isles at times in the first week, and in the western districts on the night of the 28th, but milder weather followed at once in every case.

The month opened with deep depressions moving eastward near the Arctic circle, bringing heavy rain to west Scotland, 22 mm. being measured at Eskdalemuir on the 3rd. Temperature was variable, and there was snow in parts of Scotland on the 2nd, and a heavier fall on the 5th, on the north side of a small depression which formed off north-west Ireland and moved eastward. Near sea-level in the south of Scotland there was rain or sleet on this occasion, amounting to 20 mm. at Renfrew and 19 mm. at Leith. An associated "V"-shaped secondary crossed England on the following day and caused rain or sleet generally. In south-east England a fine warm day was followed by a very cold wet evening, the wind veering suddenly from west to north. The cold snap was very brief, as pressure fell rapidly in Iceland and a warm westerly type was again established by the 8th, which proved the beginning of a long spell of mild weather, with a series of deep depressions moving north-east across Ireland, and an anticyclone over Central Europe. In the south-east half of England the weather was fair, but the western and northern districts were affected by a series of small secondaries which moved quickly north-eastward, causing gales and heavy rain in places, and occasional local thunder and hail. Among the more notable rainfall measurements during this period were 21 mm. at Blacksod Point on the 10th (partly in the form of sleet), 25 mm. at Valencia Observatory on the 12th, 27 mm. at Eskdalemuir on the 13th, and another 27 mm. at the same station on the 15th. The pressure distribution became more westerly by the 18th, and small secondaries moving eastward caused moderate falls of rain in all districts, including south-east England. On the afternoon of the 20th there were thunderstorms at Felixstowe and Yarmouth in a cold north-west current. Next day fair mild weather set in again except in the western districts, Aberdeen having a maximum of 28.9a. By the 23rd there was again a very deep depression over Ireland, and an anticyclone over Central Europe, with rain in the west and north-west, but fair weather in the south-east. The anticyclone moved westward, and the weather was brilliantly fine in southern England on the 24th and 25th. At South Farnborough temperature reached 29.1a on the 24th and on the 25th, but fell to 26.9a in the screen on the night of the 24th.

The anticyclone continued to move westward, and the weather became cloudy and showery and colder generally on the 26th. On the 28th a deep depression from the Atlantic reached the north of Scotland and caused a gale in many places in England and Ireland, and rain generally, as much as 33 mm. at Eskdalemuir. In the evening the depression suddenly became stationary and began to fill up, but a "V"-shaped secondary caused snow in Ireland, Wales and parts of the west of England during the night, and showers of hail and rain and local thunder in other parts of England during the 29th. There was local frost on the night of the 29th, the minimum at Howden being 26.9a. Mild weather soon set in again as the depression and its secondary filled up rapidly and pressure fell decidedly in Ireland. On the last day of the month an anticyclone approaching from south-west caused fair mild weather to set in over England and east Scotland, temperature reaching 29.0a at Ross-on-Wye and at Aberdeen.

Except locally in the early hours of the 25th, fog was almost entirely absent during the month. Low clouds were prevalent in the western but not in the eastern districts. In south-east England there was no day with persistent very low cloud.

Numerous depressions affected the Scandinavian area, causing frequent gales and rain, but no very large individual rainfall records were made at any of the stations from which reports are received. There were occasional reports of snow, but on the whole the month was unusually mild. Further south the weather was mainly fair, but the secondaries which brought rain to the south-east of England also affected the adjacent regions of the Continent. In France the only large rainfall readings recorded in the *Daily Weather Report* were 51 mm. at Lyons on the 7th and 25 mm. at Biarritz on the 20th. In the Mediterranean area the conditions were mainly anticyclonic, but shallow depressions caused occasional heavy falls of rain. On the 6th 59 mm. of rain fell at Gibraltar, 30 mm. at Sanguinaire (Corsica), and there were some heavy falls in Italy. Limasol (Cyprus) had 28 mm. on the 9th and 26 mm. on the 13th. There were readings of 40 mm. at Malta on the 10th, and also at Sanguinaire on the 21st.

In Scotland on the 5th there was a sudden incursion of wintry weather, lasting for three or four days, with lowest readings for the month nearly everywhere on the night of the 6th and 7th (25.8a at Braemar and 26.0a at Balmoral in the screen, and at Balmoral a reading as low as 25.5a in the open). Thereafter there was a return of mild conditions, with high readings on the 24th (29.1a at Banff) followed by moderate temperature for a few days and a decided recovery in eastern districts on the 31st. The weather was stormy around the 4th; very stormy on the 15th and 16th in all districts, and especially in the

Hebrides, where great structural damage was done; and somewhat stormy on the 23rd and 24th. Snow fell widely on the morning of the 5th, quickly giving place to rain in many districts, but continuing very heavily in Aberdeenshire on the 6th. There was again a little snow towards the end of the month. Some rapid temperature changes occurred in Southern districts on the 5th, with a rise of as much as 4.5 a at Eskdalemuir in one hour (27.5.4a at 13 h to 27.9.9a at 14 h).

The following notes supplied by observers illustrate the general character of the month:—**COPDOCK (Ipswich)**—The month at this station was extraordinarily dry, the total rainfall (22 mm.) being the lowest for March except in 1918 when there were only 21 mm. The mean temperature 28.0.6a was identical with that of 1920 and was the highest yet recorded here in March. There was a sharp thunderstorm during the afternoon of the 20th making the second during the winter season, a phenomenon which I do not remember occurring previously in my 20 years' observations. Ponds which usually are at their fullest now are in many cases in this district completely empty; some are emptier than they commonly are even at the end of a fairly dry summer. **BELPER (Quarry Bank)**—The mean temperature was 28.0.0 a, and only once during 44 years has this been exceeded at this station, namely in 1893 (28.0.2 a). **TOTLAND BAY (Isle of Wight)**—March nights this year have been unusually warm, equal to those commonly experienced during the last week of April. Only one March at this station during 35 years has been warmer at night, namely in 1912 when the mean minimum temperature for the month was 27.9.2 a. Only once this year has the screened minimum thermometer fallen below the freezing point. **SOUTHPORT (Lancs.)**—A very mild, cloudy, and showery month, winds from southerly directions being remarkably prevalent for March. **SHEEPSTOR (Dartmoor)**—From December 19th to March 29th, a period of exactly 100 days, not a flake of snow fell at this high-level station, an event unprecedented in the memory of the oldest inhabitant. **DUBLIN (Fitzwilliam Square)**—A generally mild and favourable month. Very constant south-west and west winds were noted, while the traditional easterly winds of March were conspicuously absent. There was a remarkable coincidence in the means of the instruments at 9 h and 21 h. For the first time this year snow fell in Dublin, and this happened twice, namely on the 14th and 28th.

Air Pressure. As shown by the map on page 31 the mean monthly trend of the isopleths was of a normal type, but the gradient was much steeper than usual. At the telegraphic reporting stations the departures of the monthly means from the normal varied from -4.7 mb. at Stornoway to +6.1 mb. at Jersey.

Temperature. The mean monthly temperature was above the normal in all districts, the excess ranging from 2.4 a in England East to 0.9 a in Scotland North. At some of the stations in the North-east and East of England the excess was especially large; it was as much as 5.3 a at Yarmouth, 5.2 a at Skegness, and 5.1 a at Clacton and Hull. These conditions were in marked contrast with the inclement weather which prevailed in March of last year, in which month the mean temperature in all districts was below the normal.

Precipitation. The number of rain-days recorded in the various districts (see Table I. p. 30) was very varied and ranged from 27 in Scotland North, Scotland West, and Ireland North to 13 in England East and 15 in England South-east. The departures of the monthly totals were equally varied and ranged from +69 mm. in Scotland West to -26 mm. in the English Channel. The rainfall was again markedly below the normal in England except in the extreme West, being less than half the normal in the east Midlands. An excess of more than 50 per cent. occurred over the whole of the western half of Scotland and locally in Ireland, and more than twice the normal fell in the West Highlands. In the latter district the area with more than 250 mm. was exceptionally large for the season, extending from Bute to Cape Wrath. More than 500 mm. fell in the west of Inverness-shire and in the centre of the English Lake District. As much as 250 mm. fell only locally in the Welsh uplands. In the dry district of the East less than 25 mm. fell practically everywhere between the Thames estuary and Northumberland, the 25 mm. line through the Midlands being as far to the West as Leicester. Only relatively small areas in the East of Scotland and Ireland had less than 75 mm. The general rainfall expressed as a percentage of the normal was:—England and Wales 101; Scotland 170; Ireland 129; and the British Isles as a whole 133.

Sunshine. In England East the mean daily amount of sunshine was 0.74 hr above the normal, and in the Midlands and in England South-east there was an excess of 0.10 hr and 0.61 hr respectively. In all other districts the sunshine was deficient, the largest deficiency being 0.99 hr in Ireland South.

Optical Phenomena. Lunar and solar halos were frequently reported; the Zodiacal Light was seen at Tenbury (Worcester) on the 2nd, 18th, and 20th, and a lunar rainbow was observed at Eskdalemuir on the 20th.

Aurora was seen on the 1st at Aberdeen, Fort William, Gordon Castle, and Paisley, and at Deerness on the 11th, 15th, and 16th, and faintly at Aberdeen on the 29th.

Note. The article by Captain C. K. M. Douglas in the *Meteorological Magazine* for April has been utilized in the preparation of these notes.

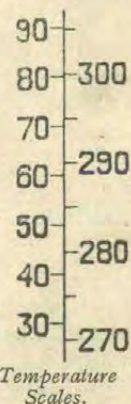


TABLE I.—DISTRICT VALUES—MARCH, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD. Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.			
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est.	Date.	Low- est.	Date	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	59	16	200+ 81.1	200+ 74.8	200+ 77.9	+0.9	77.8	—	—	7.06	179	+ 67	27	2.32	-0.73	20	7.9	7.5	6.4	1024	25	977	28	
Eastern.																								
1. SCOTLAND, EAST ...	64	5	81.6	74.8	78.2	+1.2	77.8	+0.3	78.3	+0.9	2.73	69	+ 6	20	3.47	-0.04	30	6.8	7.2	6.7	1024	25	977	28
2. ENGLAND, N.E. ...	65	15	83.8	76.4	80.1	+2.3	78.9	+1.6	79.3	+1.2	0.84	21	- 26	16	3.60	-0.27	31	6.8	7.8	6.3	1029	1	988	28
3. ENGLAND, EAST ...	67	26	84.7	76.3	80.5	+2.4	79.8	+1.7	80.4	+1.2	0.93	23	- 20	13	4.61	+0.74	39	6.3	6.5	5.5	1032	1	996	29
4. MIDLAND COUNTIES ...	66	24	84.1	76.5	80.3	+2.3	79.4	+1.5	79.7	+1.1	1.39	35	- 13	17	3.57	+0.10	30	6.9	7.7	6.3	1028	1, 31	992	29
5. ENGLAND, S.E. ...	69	22	84.6	76.7	80.7	+2.1	80.1	+1.4	80.6	+1.0	1.26	32	- 20	15	4.55	+0.61	39	6.1	7.1	6.3	1032	1	993	29
Western.																								
6. SCOTLAND, WEST ...	57	15	81.9	76.1	79.0	+1.2	78.6	+1.2	79.1	+0.7	6.29	160	+ 69	27	2.57	-0.94	22	8.0	8.8	7.5	1025	25	985	28
7. ENGLAND, N.W. ...	64	21	82.9	77.1	80.0	+1.8	79.3	+1.3	79.6	+0.8	3.17	81	+ 16	23	2.93	-0.63	25	7.9	7.9	7.2	1028	31	988	29
8. ENGLAND, S.W. ...	65	24	83.5	77.3	80.4	+1.5	80.8	+1.1	81.3	+1.2	2.76	70	- 6	21	3.50	-0.46	30	7.1	7.1	5.8	1031	1	991	29
9. IRELAND, NORTH ...	59	22	82.8	76.8	79.8	+1.2	79.7	+0.9	80.1	+0.7	3.72	95	+ 20	27	2.57	-0.78	22	7.8	8.1	5.9	1028	31	983	10
10. IRELAND, SOUTH ...	63	20	83.8	77.6	80.7	+1.4	80.3	+1.2	80.7	+0.9	3.57	91	+ 11	25	2.85	-0.99	24	7.5	8.2	6.7	1031	31	983	10
11. ENGLISH CHANNEL ...	65	33	84.4	79.2	81.8	+1.4	81.2	+0.8	81.7	+0.9	1.69	43	- 21	17	4.54	-0.16	39	6.6	6.8	5.1	1031	2	995	29
Mean : DISTRICTS 1-10 ...	69	5	83.4	76.6	80.0	+1.7	79.5	+1.2	79.9	+1.0	2.67	68	+ 4	20	3.42	-0.27	29	7.1	7.6	6.5	1032	—	977	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—MARCH, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Build- ing.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		8 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record	Highest Hourly Wind.		Highest Gust.					
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	d.	h.	m.		
0. SCOTLAND, N. Deerness (Cup Anr.) ...	ft. 188	ft. 16	ft. 5	4, 16, 24	hr. 7	22	hr. 250	hr. 342	hr. 134	hr. 11	hr. 0	° 240	m/s. 20	day. 24	hour. 13	m/s. —	d. —	h. —	m. —
1. SCOTLAND, E. Dyce ...	305	75	15*	—	0	0	0	78	386	141	159	240	8	3	12	23	4	10	50
†Aberdeen (Cup Anr.)...	120	72	12	—	0	8	17	245	451	31	0	300	13	27	{ 9 } 14	—	—	—	—
Balmakewan ...	140	25	18	—	0	6	13	331	318	82	0	10	13	6	9	24	16	10	40
Rosyth ...	85	73	19	15, 16	4	20	123	411	148	42	16	{ 190 } { 200 }	18	{ 15 } { 16 }	{ 13 } { 8 }	30	16	9	0
Edinburgh...	485	39	31	15, 16	5	19	114	433	188	4	0	180	19	15	12	30	16	7	15
6. SCOTLAND, W. Eskdalemuir ...	825	50	22	15, 16, 23	9	20	165	345	154	66	5	180	21	16	9	30	16	9	20
Paisley ...	188	81	15	—	0	6	25	428	261	30	0	190	16	15	11	31	15	10	15
2. ENGLAND, N.E. Alnwick Castle...	340	70	17	—	0	4	9	230	385	120	0	200	13	16	9	22	16	9	15
South Shields ...	72	61	12	—	0	9	36	329	331	48	0	290	14	31	14	22	{ 16 } 31	11	10
Spurn Head ...	66	40	†	Instrument dismounted.												—	—	—	—
Cranwell ...	278	43	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Howden ...	59	40	30	—	0	10	43	322	229	150	0	{ 260 } { 270 }	13	27	{ 12 } { 13 }	21	14	15	40
3. ENGLAND, E. Gorleston ...	52	42	†	—	0	11	53	375	293	20	3	30	14	6	23	20	6	22	20
Felixstowe ...	51	30	18	—	0	3	10	331	370	19	14	320	13	27	11	21	27	14	35
Shoeburyness ...	103	90	†	—	0	3	13	328	355	48	0	190	13	14	15	20	20	13	15
4. MIDLAND COUNTIES Benson ...	270	84	†	—	0	7	35	316	334	59	0	180	15	14	14	23	14	13	55
5. ENGLAND, S.E. Calshot ...	55	45	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brighton ...	261	53	6	—	0	1	3	198	318	225	0	—	13	28	23	20	28	22	55
Isle of Grain ...	46	45	30	—	0	7	24	304	308	105	3	{ 220 } { 220 }	13	28	{ 22 } { 24 }	18	28	21	55
Larkhill (S'y Plain) ...	513	63	43	—	0	19	117	412	210	2	3	210	17	14	13	21	14	{ 13 } 14	10
Richmond (Kew Obs.).	82	65	22	—	0	2	2	214	425	103	0	{ 190 } { 220 }	11	{ 16 } { 28 }	{ 12 } { 21 }	22	20	15	55
7. ENGLAND, N.W. Fleetwood (Cup Anr.)	109	44	—	—	0	16	121	407	207	9	0	290	17	27	10	—	—	—	—
Southport ...	80	62	48	27	2	19	155	428	157	2	0	280	18	27	10	26	28	18	30
Holyhead ...	60	40	†	—	0	24	257	407	71	9	0	270	16	26	19	24	10	18	35
8. ENGLAND, S.W. Pendennis Castle§ ...	256	65	24	||	44	22	204	269	107	81	39	—	25	28	18	34	29	8	45
Plymouth ...	185	88	2	13, 14, 16	14	11	96	307	247	78	2	—	20	14	9	30	14	8	55
Lyme Regis ...	556	61	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S. Kingstown (Cup Anr.)	49	27	—	—	0	22	165	376	192	11	0	{ 170 } { 230 }	16	{ 10 } { 18 }	{ 18 } { 10 }	—	—	—	—
Quilty ...	100	40	†	16	2	24	285	377	72	8	0	—	18	16	? 5	29	16	? 4	35
Cahirciveen (Val. Obs.)	98	41	†	—	0	14	128	428	160	27	1	180	17	15	4	28	16	4	40
Weaver Pt. ...	160	30	†	10, 12, 15, 16	16	16	123	351	263	1	0	—	19	16	10	28	28	13	10
11. ENGLISH CHANNEL. Scilly ...	150	32	†	29	2	15	103	330	244	65	0	310	20	29	10	28	29	9	55

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s.

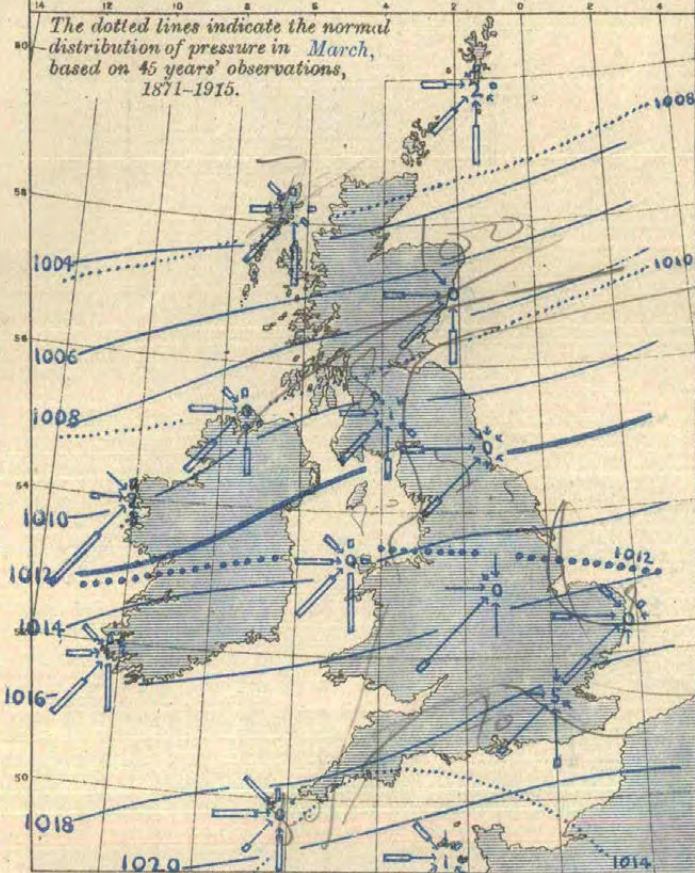
* Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

[Vide Guide to the Tables of the W. W. R.]

† Tube Anemograph out of action since February 5th, 1920.

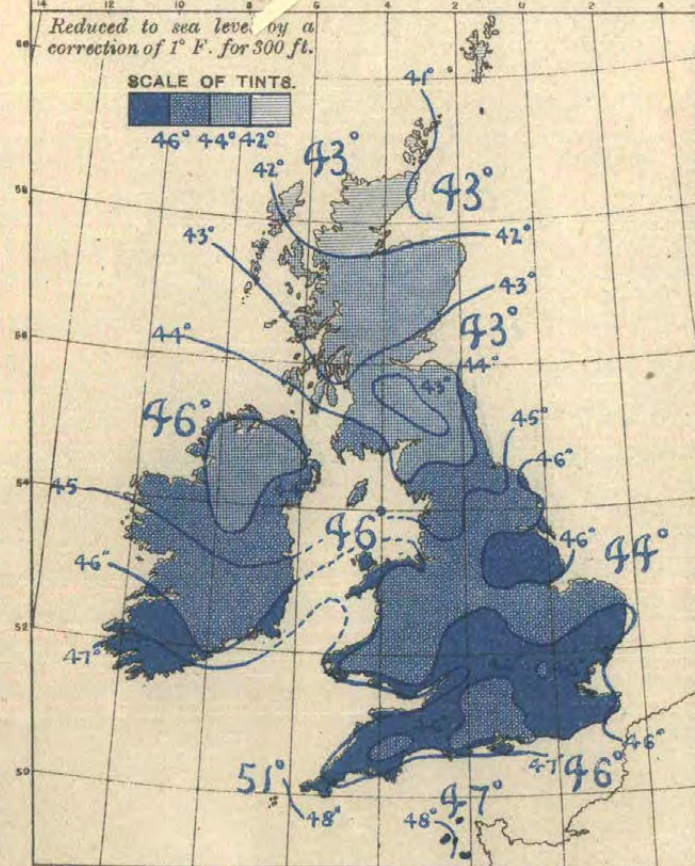
|| Pendennis, 10, 13, 14, 15, 16, 28, 29.

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



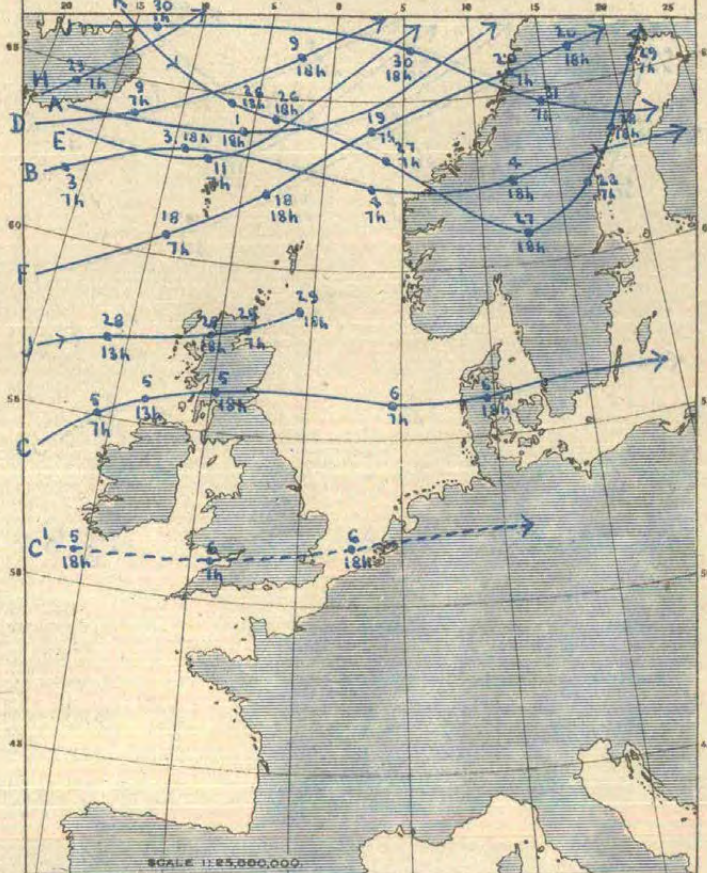
WIND ROSES. The arrow fly with the wind and indicate frequency and force, thus: LIGHT TO STRONG GALE 30 Obs. - 1 inch - 1

3. DISTRIBUTION OF MEAN TEMPERATURE.



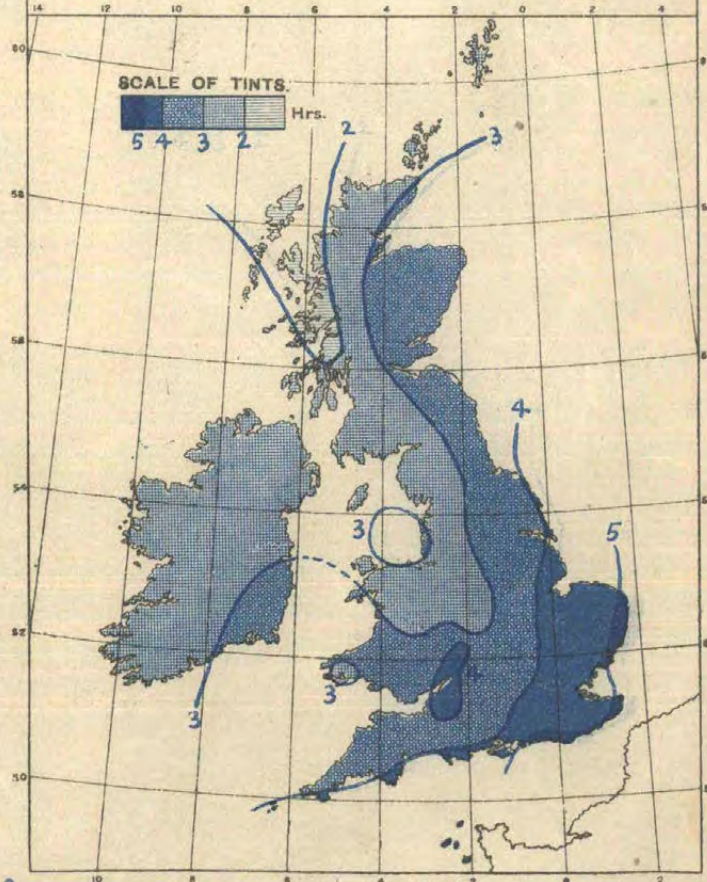
Sea temperatures are shown in large figures, thus: 46°

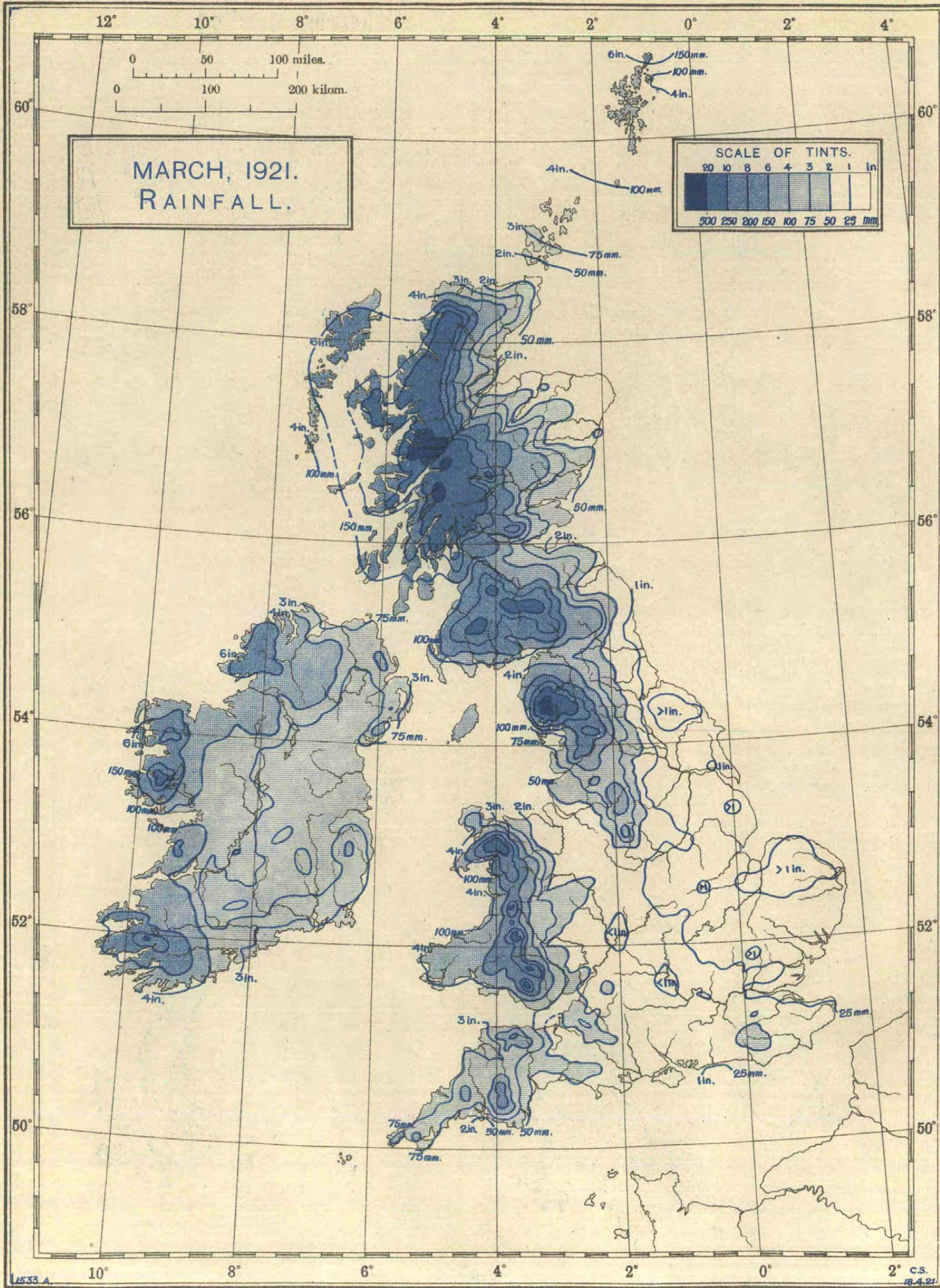
2. MOVEMENTS OF DEPRESSIONS.



Broken line shows track of secondary depression

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

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

WEATHER OF THE DAY.

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 h.		RAINFALL				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day		Precipitation, 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
									Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.			
																														A	B	Max.	Min.	Mean of A and B.
Max.	Min.	Rain	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.	29	27	10	4	14	1	0	—	8	2.65	—	23			
O. SCOTLAND, N.																																
Shetlands.	Baltasound	9 9 9	31	45.3	36.2	40.8	—	53	24th	26	6th	40.5	—	6.18	157	—	20	28th	29	27	10	4	14	1	0	—	8	2.65	—	23		
	Lerwick	18—7 7	54	44.8	35.8	40.3	+1.6	52	24th	26	7th	—	—	5.06	128	+ 48	13	18th	27	22	8	0	1	1	0	—	3	—	—	—		
Orkneys.	Deerness	21 21 9	160	45.6	36.4	41.0	+1.8	55	24th	26	6th	—	—	3.25	83	+ 12	12	21st	25	19	6	4	0	1	0	—	3	2.74	-0.45	23		
	Kirkwall	9 9 9	100	—	—	—	—	—	—	—	—	—	—	3.81	97	—	13	3rd	27	21	8	3	6	0	0	—	4	—	—	—		
Hebrides.	Castlebay	18—7 7	37	46.0	40.5	43.3	—	52	24th	30	6th	—	—	4.03	102	—	12	9th	27	25	5	0	13	0	0	—	1	2.16	—	18		
	Stornoway	18—7 7	51	46.4	37.0	41.7	+1.8	54	24th	28	6th	—	—	6.69	170	+ 66	13	23rd	31	29	5	0	4	2	0	—	1	1.90	-1.49	16		
Caithness.	Wick	18—7 7	81	46.2	34.9	40.6	+1.2	59	24th	20	5th	—	—	1.61	41	- 17	8	5th	24	14	6	3	2	0	0	—	6	—	—	—		
Sutherland.	Dunrobin	9 9 9	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Ross and Cromarty.	Fortrose	9 9 9	69	48.0	36.2	42.1	—	59	24th	22	7th	—	—	1.22	31	—	7	5th	18	11	4	2	1	0	0	—	2	3.35	—	29		
	Glencarron	21 21 9	500	45.5	34.1	39.8	+1.4	53	16th	16	7th	—	—	11.92	303	+111	53	8th	30	27	4	2	0	0	0	—	3	—	—	—		
	Strathpeffer	9 9 9	125	48.1	34.1	41.1	+1.7	59	24th	17	7th	—	—	2.49	63	- 4	10	5th	14	14	3	3	0	0	0	—	0	—	—	—		
Inverness.	Ft. Augustus	9 9 9	68	47.5	34.7	41.1	+1.4	55	16, 24	17	7th	—	—	6.71	170	- 77	19	8th	30	29	4	2	0	0	0	—	5	—	—	—		
	Ft. William	21 21 9	171	46.9	36.4	41.7	+1.1	53	16, 24	19	7th	—	—	14.94	379	211	53	8th	30	30	4	3	0	0	5	—	1	—	—	—		
	Inverness	21 21 9	98	49.0	35.8	42.4	—	57	31st	22	7th	40.6	—	2.15	55	+ 1	8	5th	23	18	7	3	1	0	0	—	5	3.39	—	29		
1. SCOTLAND, E.																																
Nairn.	Nairn	18—7 7	82	48.0	34.3	41.2	+1.7	60	21, 24	19	7th	—	—	1.70	43	- 5	7	16th	22	14	7	1	1	0	0	—	6	3.74	—	32		
	Gordon Castle	21 21 9	101	49.0	35.7	42.4	+2.3	63	24th	24	7th	—	—	2.04	52	- 7	13	29th	18	12	7	3	0	0	0	—	1	3.71	—	32		
Elgin.	Gordon Castle	21 21 9	101	49.0	35.7	42.4	+2.3	63	24th	24	7th	—	—	2.04	52	- 7	13	29th	18	12	7	3	0	0	0	—	1	3.71	—	32		
Banff.	Banff	9 9 9	6	48.7	36.7	42.7	—	64	24th	28	5, 7	—	—	1.79	45	—	9	13, 29	19	14	7	2	4	0	0	—	0	3.48	—	30		
Aberdeen.	Aberdeen	24 24 24	46	47.7	37.2	42.5	+2.3	61	31st	26	7th	—	41.7	1.95	50	- 11	14	4th	14	10	6	1	0	0	0	—	11	0	3.94	+0.17	34	
	Balmoral	9 9 9	930	44.6	32.3	38.5	—	56	24th	8	7th	—	—	2.31	59	- 16	11	5th	22	15	7	6	0	0	0	—	17	4	—	—		
	Braemar	21 21 9	1120	45.2	31.5	38.4	+2.4	57	31st	5	7th	—	—	3.90	99	+ 25	23	16th	23	22	8	6	0	0	0	—	20	0	—	—		
	Logie Coldstone	9 9 9	608	47.1	33.5	40.3	—	60	31st	12	7th	—	—	1.67	42	- 24	17	5th	22	10	7	—	0	0	0	—	24	1	—	—		
Kincardine.	Crathes	9 9 9	140	48.2	35.1	41.7	+2.4	63	31st	25	7, 8	38.9	40.6	1.83	46	- 28	14	13th	13	10	5	2	1	0	—	11	0	3.77	+0.19	32		
	Arbroath	9 9 9	67	49.0	36.7	42.9	—	61	31st	24	7th	—	—	1.91	49	—	15	5, 13	14	8	2	1	0	0	1	—	4	—	—	—		
	Carnoustie	9 9 9	39	48.8	37.0	42.9	—	59	31st	24	7th	—	—	2.21	56	—	18	5th	15	9	1	—	1	0	0	—	3	3.68	—	31		
	Dundee	21 21 9	160	47.8	36.0	41.9	+2.1	59	31st	24	7th	—	—	2.20	56	+ 4	19	5th	16	12	1	1	1	0	0	—	4	—	—	—		
(E. Necropolis).	Coll. Gdn.	9 9 9	244	48.5	35.1	41.8	—	59	16, 31	22	7th	40.3	—	2.17	55	—	19	5th	18	12	3	2	1	0	0	—	18	2	3.10	—	26	
	Kettins	9 9 9	218	48.3	35.3	41.8	—	60	31st	19	7th	—	—	2.40	61	—	18	5th	23	10	3	5	2	0	0	—	18	1	—	—		
	Lednathie	9 9 9	720	—	—	—	—	—	—	—	—	—	—	4.56	116	—	20	5th	18	18	6	3	0	0	1	—	2	—	—	—		
	Montrose	9 9 9	16	48.4	36.6	42.5	—	60	31st	23	7th	—	—	1.99	51	—	17	13th	13	7	1	0	0	0	0	—	2	4.00	—	34		
Perth.	Crieff	21 21 9	478	46.6	34.5	40.6	+0.5	57	21, 31	19	7th	—	—	4.63	118	+ 37	24	15th	26	23	6	6	1	0	0	—	1	—	—	—		
	Perth	9 9 9	76	48.8	36.7	42.8	+2.7	59	31st	19	7th	—	—	2.58	66	+ 3	16	15th	14	12	1	0	0	0	0	—	0	3.16	—	27		
Fife.	Cupar	9 9 9	210	49.4	36.0	42.7	—	57	31st	22	7th	—	—	2.32	59	—	19	5th	19	12	4	2	1	0	0	—	0	—	—	—		
	Kirkcaldy	9 9 9	66	49.3	37.7	43.5	—	55	16, 21, 31	24	7th	—	—	2.96	75	—	20	5th	21	16	3	1	0	0	0	—	1	—	—	—		
	St. Andrews	9 9 9	20	49.4	36.6	43.0	—	58	31st	24	7th	41.4	41.9	2.42	61	—	20	5th	15	9	1	—	0	0	0	—	12	0	3.87	—	33	
	Bangour	21 21 9	587	45.9	35.1	40.5	—	53	21st	19	7th	—	—	3.31	84	—	14	5th	24	21	6	2	0	0	1	—	2	—	—	—		
Linlithgow.	Dalkeith	9 9 9	190	49.4	37.0	43.2	—	55	21st	22	7th	—	—	1.83	46	—	14	5th	15	11	2	1	0	0	0	—	0	—	—	—		
	Blackford Hill	21 21 9	441	47.9	37.2	42.6	+2.7	55	21st	22	7th	—	—	2.08	53	+ 8	10	5th	20	11	3	1	0	0	0	—	8	3.87	+0.19	33		
	Liberton	9 9 9	190	49.1	37.7	43.4	—	56	21st	22	7th	—	—	2.21	56	—	13	5th	17	11	3	1	1	0	0	—	2	—	—	—		
	Edinburgh Univ.	9 9 9	227	50.6	38.3	44.5	—	56	21st	26	7th	41.5	42.2	2.47	63	+ 16	20	5th	18	12	—	—	—	—	—	—	—	—	—	—		
	Leith	18—7 7	30	49.5	37.3	43.4	+2.1	57	21st	25	7, 8	—	—	2.45	62	+ 18	19	5th	22	12	4	0	0	0	0	—	11	0	—	—		
Haddington.	Smeaton	9 9 9	100	50.5	37.0	43.8																										

TABLE III. (continued).--SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Tem- perature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.				
									Means of		Devia- tion from Normal.	Absolute Maximum and Minimum.				Total Fall.			Devia- tion from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.					
												Max.	Min.	Maximum.	Date.															Minimum.	Date.	Daily Mean.	Devia- tion from Normal.	Per Cent.	
																																			A	B
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	mm.	mm.	mm.	Date.	Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Devia- tion from Normal.	Per Cent.							
2. ENGLAND, N.E.																																			
North- umberland.	Alnwick	9 9 9	181	50.8	37.5	44.2	+3.9	59	31st	26	12th	—	—	1.10	28	—	36	8	4th	17	8	2	0	0	0	—	—	—	—	—	—	—	—	—	—
	Bellingham	9 9 9	848	46.4	32.8	39.6	—	53	10th	22	7th	—	—	2.60	66	—	12	13th	24	16	—	0	0	0	0	—	—	—	—	—	—	—	—	—	
	Cockle Park	21 21 9	324	50.0	35.7	42.9	+3.9	59	17th	27	7th	41.2	42.2	0.82	21	—	40	5	4th	18	8	0	0	0	0	0	16	0	3.23	—	0.83	27	—		
	Tynemouth	18—7 7	118	50.0	39.6	44.8	+4.1	59	24th	30	7th	—	—	0.71	18	—	28	4	25th	15	9	1	0	0	2	0	2	0	3.35	—	—	—	—		
Durham.	Chopwellwood...	9 9 9	445	50.4	31.3	40.9	—	59	21st	15	12th	—	—	1.02	26	—	5	5th	16	8	0	0	0	0	0	—	—	—	—	—	—	—	—		
	Durham	21 21 9	336	50.1	35.8	43.0	+2.9	57	21, 31	27	7th	—	—	0.72	18	—	29	3	25th	19	7	1	0	0	0	0	—	—	—	—	—	—	—		
	Ushaw College...	9 9 9	594	49.2	35.1	42.2	—	58	21st	25	7th	—	—	1.11	28	—	4	25th	22	11	3	0	0	0	0	—	—	—	—	—	—	—	—		
York, N. Riding.	Ampleforth	9 9 9	348	50.4	36.9	43.7	+3.8	60	24, 31	28	7th	—	—	1.24	31	—	21	6	12th	16	11	2	1	0	0	0	11	—	—	—	—	—	—		
	Bridlington	21 21 9	57	52.3	37.1	44.7	—	64	24th	28	3rd	—	—	0.83	21	—	5	25th	14	7	0	0	0	0	0	—	—	—	—	—	—	—	—		
	Rounton	21 21 9	249	50.7	36.5	43.6	+3.6	59	24, 31	28	3, 7	42.3	—	1.22	31	—	10	4	22nd	17	9	3	0	0	0	0	—	—	—	—	—	—	—		
	Scarborough	18 18 9	118	53.3	39.6	46.5	+4.9	64	24th	33	3, 8, 9	—	—	0.53	13	—	33	2	19th	13	7	3	0	0	0	0	—	—	—	—	—	—	—		
	West Witton	9 9 9	605	48.7	37.6	43.2	—	58	31st	27	7th	41.0	41.8	2.28	58	—	8	3, 28	20	14	4	1	1	0	1	12	—	—	—	—	—	—	—		
	Whitby	21 21 9	124	52.8	38.5	45.7	+4.2	65	24th	32	3, 8, 30	—	—	0.48	12	—	35	2	13th	12	7	4	0	1	0	0	—	—	—	—	—	—	—		
	York	21 21 9	56	51.5	39.0	45.3	+3.8	63	24th	29	7th	43.4	43.9	0.82	21	—	22	4	16th	18	8	0	0	0	0	0	—	—	—	—	—	—	—		
York, E. Riding.	Howden	18—7 7	21	52.4	37.0	44.7	—	65	24th	24	30th	—	—	1.04	27	—	6	16th	14	8	1	0	1	0	5	14	0	3.29	—	—	—	—	—		
	Hull	21 21 9	8	52.9	39.2	46.1	+5.1	62	31st	31	7th	43.2	43.5	1.02	26	—	20	5	25th	16	10	1	0	0	0	0	16	0	2.52	—	—	—	—		
	Spurn Head	18—7 7	26	50.7	37.9	44.3	+3.3	61	24th	32	3rd	—	—	1.01	26	—	10	4	6, 25	14	12	1	0	1	0	5	—	—	—	—	—	—	—		
Lincoln.	Cranwell	18—7 7	237	52.6	38.1	45.4	—	63	24th	28	7th	43.6	43.7	0.79	20	—	5	6th	15	7	4	0	3	1	0	8	0	4.19	—	—	—	—	—		
	Fulbeck	9 9 9	180	52.7	37.9	45.3	+3.9	63	24th	29	7th	—	—	0.85	22	—	22	4	6th	20	8	—	—	—	—	—	11	—	—	—	—	—	—		
	Lincoln	9 9 9	58	53.3	38.9	46.1	+4.6	64	24th	29	7th	43.3	44.0	0.63	16	—	23	5	19th	15	7	0	0	0	1	0	6	0	—	—	—	—	—		
	Skegness	9 9 9	12	52.9	39.0	46.0	+5.2	64	24th	30	3rd	—	—	0.91	23	—	22	5	6th	14	8	1	0	2	1	1	—	—	—	—	—	—	—		
3. ENGLAND, E.																																			
Norfolk.	Cromer	9 9 9	196	53.2	36.3	44.8	+3.6	65	24th	27	8th	—	—	0.53	14	—	23	4	19th	13	4	2	0	0	0	1	—	—	—	—	—	—	—		
	Geldeston	9 9 9	37	54.8	36.8	45.8	+4.2	67	24th	26	8th	—	—	0.76	19	—	25	5	19th	11	7	1	0	0	0	0	—	—	—	—	—	—	—		
	L. Massingham	9 9 9	277	52.0	36.1	44.1	+2.8	63	24th	27	3rd	—	—	1.15	29	—	23	7	6th	15	7	2	0	1	0	1	—	—	—	—	—	—	—		
	Norwich	9 9 9	98	53.7	38.7	46.2	+4.5	66	24th	29	8th	43.2	—	1.19	30	—	19	6	19th	13	10	1	0	1	0	1	14	—	—	—	—	—	—		
	Yarmouth	18—7 7	13	53.1	38.7	45.9	+5.3	66	24th	30	3, 4, 8	45.3	45.9	0.99	25	—	19	6	19th	14	9	4	0	0	1	0	2	2	5.52	—	—	—	—	—	
Suffolk.	Bungay (Flixton)	9 9 9	79	53.7	38.0	45.9	—	64	25th	28	8th	—	—	0.86	22	—	6	19th	14	8	1	0	1	0	1	14	—	—	—	—	—	—	—		
	Felixstowe Aero	18—7 7	15	52.3	40.2	46.3	—	63	24th	34	3, 7	—	—	0.74	19	—	4	17th	11	6	0	0	4	1	0	4	—	—	—	—	—	—	—		
	Beach	9 18 9	15	51.7	39.7	45.7	+4.3	62	24th	30	3rd	—	—	0.89	23	—	17	5	17th	11	8	0	0	1	1	0	—	—	—	—	—	—	—		
	Copdock	9 9 9	164	53.8	37.5	45.7	—	66	24th	29	3, 8	43.7	44.2	0.88	22	—	6	17th	12	7	1	0	0	1	1	0	11	—	—	—	—	—	—		
Cambridge.	Lowestoft	21 21 9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Cambridge	20 20 8	41	54.4	36.7	45.6	+3.8	67	24th	26	3, 8	44.8	45.3	0.65	16	—	21	4	6th	12	6	0	0	1	0	0	19	0	4.32	+0.42	37	—	—		
Bedford.	Luton	9 9 9	390	51.8	37.2	44.5	—	61	24th	28	3rd	44.5	45.7	0.79	20	—	3	6th	12	8	1	0	2	1	0	10	0	4.52	—	—	—	—	—		
	Woburn	9 9 9	291	52.5	37.9	45.2	+4.1	64	24th	28	3rd	44.7	46.7	1.04	26	—	19	4	6th	18	9	0	0	1	0	1	—	—	—	—	—	—	—		
Hertford.	Bennington	21 21 9	406	52.7	37.5	45.1	+3.9	64	24th	28	3rd	44.1	44.4	0.96	25	—	21	5	20th	14	8	0	0	1	0	0	16	0	3.90	—	—	—	—	—	
	Berkhamsted	9 9 9	450	53.1	37.8	45.5	+4.4	64	24th	27	3rd	—	—	1.18	30	—	27	5	17th	16	8	1	0	2	0	0	22	0	—	—	—	—	—		
	Hemel Hempstead	21 21 9	535	51.5	36.7	44.1	—	62	24th	28	8th	—	—	1.08	28	—	5	17th	14	9	1	0	3	0	1	17	0	4.29	—	—	—	—	—		
	Hitchin	9 9 9	297	52.9	38.0	45.5	—	65	24th	30	8th	43.3	43.9	0.85	22	—	7	6th	14	7	0	0	2	0	1	7	0	4.65	—	—	—	—	—		
	Rothamsted	9 9 9	420	51.8	36.5	44.2	+3.1	63	24th	27	3, 8	43.0	—	0.96	24	—	27	4	17th	12	9	0	0	3	0	0	18	0	4.26	+0.55	36	—	—		
Essex.	Clacton-on-S.	18—7 7	54	51.5	40.6	46.1	+5.1	61	31st	31	3rd	45.3	46.1	0.84	21	—	16	5	6th	13	5	0	0	0	0	0	—	—	—	—	—	—	—		
	Chelmsford	9 9 9	134	54.1	37.6	45.9	—	65	24th	27	3rd	—	—	1																					

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1921.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Tem- perature at 7, 8 or 9 ft.		RAINFALL.				WEATHER, Number of days.								BRIGHT UNSHINE.						
			Means of		Mean of A and B.	Devia- tion from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Devia- tion from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.								
			A	B			Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Devia- tion from Normal.	Per Cent.						
4. MIDLAND COUNTIES—cont.																																	
Stafford.	Cheadle	9	9	9	646	49.5	37.0	43.3	+3.2	61	24th	27	7th	—	—	1.81	46	—	14	8	3rd	17	14	—	—	—	—	—	6	—	—	hr.	%
	Mayfield	9	9	9	374	50.5	36.7	43.6	—	62	24th	28	8th	—	—	2.05	52	—	11	19th	23	15	3	0	6	0	0	5	0	2.94	—	25	
Shropshire.	Roden (Well'n)	9	9	9	207	51.6	37.3	44.5	—	62	24th	26	7th	—	—	1.27	32	—	6	22nd	18	12	—	—	—	—	—	—	—	—	—	—	—
	Wistanstow	21	21	9	481	51.6	38.2	44.9	+3.6	61	31st	27	12th	—	—	1.67	42	—	14	14th	19	11	0	0	0	0	0	9	0	—	—	—	—
Worcester.	Malvern	9	9	9	377	51.5	39.3	45.4	—	62	31st	31	7th	43.9	44.6	1.23	31	—	8	13th	18	11	0	0	0	0	0	5	0	4.13	—	35	
	Sparkhill	7	13	7	424	52.5	38.0	45.3	—	63	24th	29	3, 7	—	—	1.30	33	—	9	13th	18	11	2	0	2	0	0	13	2	—	—	—	—
Hereford.	Tenbury	21	21	9	313	52.0	38.4	45.2	+3.6	63	31st	28	12th	44.2	—	1.51	38	—	2	8	13th	21	10	2	0	1	0	1	11	3	—	—	—
	Bromyard	9	9	9	392	52.0	37.4	44.7	—	62	24, 31	28	7th	43.9	44.1	1.20	30	—	6	13, 14	19	8	1	0	1	0	0	9	0	—	—	—	—
	Hereford	9	9	9	291	52.5	37.7	45.1	+3.1	62	24, 31	29	7th	—	—	1.65	42	—	5	8	14th	13	12	0	0	0	0	0	6	0	—	—	—
	Ross	21	21	7	201	53.1	39.1	46.1	+3.5	64	31st	30	25th	45.0	45.2	1.33	34	—	18	7	13th	18	12	1	0	2	0	1	10	2	3.90	—	33
Gloucester.	Cheltenham	9	9	9	214	52.6	40.0	46.3	+4.5	62	24, 31	30	3rd	—	—	1.24	31	—	18	5	11, 13	17	10	0	0	1	0	0	9	0	3.81	—	32
	Over Court	9	9	9	147	52.6	39.7	46.2	—	61	24th	32	7th	—	—	1.74	44	—	7	28th	21	16	—	—	—	—	—	—	—	—	—	—	—
	Clifton	9	9	9	225	51.1	39.5	45.3	+2.8	61	24th	33	7th	—	—	2.24	57	—	7	9	28th	21	17	0	0	0	0	3	0	4.55	—	39	
5. ENGLAND, S.E.																																	
London.	Camden Square	9	9	9	110	55.6	39.0	47.3	+4.4	69	25th	29	3rd	43.9	44.5	1.19	30	—	17	8	6th	13	8	—	—	—	—	—	—	—	—	—	—
	East Ham	9	9	9	15	54.4	37.9	46.2	—	67	24th	29	8th	—	—	1.20	30	—	6	28th	13	10	—	—	—	—	—	—	—	—	—	—	—
	Enfield	9	9	9	148	54.3	37.1	45.7	—	67	24th	27	8th	—	—	1.37	35	—	7	6th	15	10	1	0	1	0	0	11	2	4.26	—	36	
	Greenwich	9	9	9	149	55.2	38.0	46.6	+4.1	67	24th	27	8th	43.8	44.7	1.21	31	—	13	7	6th	14	10	0	0	1	0	0	14	0	4.46	+1.06	38
	Hampstead Res.	21	21	9	450	52.1	38.9	45.5	—	64	24th	29	3rd	—	—	1.31	33	—	6	6th	14	10	1	0	1	1	4	—	1	4.03	—	34	
	Richmond (Kew Obs.)	24	24	24	18	53.8	39.2	46.5	+4.1	63	24th	29	3rd	44.2	45.3	1.33	34	—	9	7	6, 28	14	11	0	0	1	1	2	12	0	4.00	+0.61	35
	Kensington Pal.	9	9	9	80	54.6	39.3	47.0	—	67	24th	30	3rd	44.9	45.4	1.17	30	—	6	28th	14	9	0	0	0	0	0	13	0	—	—	—	—
	Tottenham	21	21	9	51	53.7	40.5	47.1	—	66	24th	32	3rd	—	—	1.19	30	—	8	6th	11	8	0	0	0	0	0	2	0	3.55	—	30	
Kent.	Westminster	9	9	9	27	54.9	39.7	47.3	+4.2	67	24th	29	3, 8	—	—	1.10	28	—	13	6	28th	14	9	0	0	1	0	0	10	—	3.81	+1.42	32
	Belvedere	9	9	9	14	54.5	39.2	46.9	—	67	24th	30	6th	45.0	46.5	0.79	20	—	6	28th	9	7	0	0	0	0	0	8	0	—	—	—	—
	Bexley Heath	21	21	7	161	54.1	39.2	46.7	—	64	24th	28	8th	45.8	45.9	1.33	34	—	7	6th	14	10	0	0	0	0	0	11	0	—	—	—	—
	Biggin Hill	18	—	7	600	—	38.8	—	—	—	—	—	3, 7, 8	—	—	1.80	46	—	12	28th	15	10	2	0	4	0	2	—	5	—	—	—	—
	Canterbury	9	9	9	40	54.5	38.9	46.7	—	66	25th	30	3, 8	45.0	46.4	1.12	28	—	9	6th	12	8	—	—	—	—	7	—	—	—	—	—	—
	Dungeness	18	—	7	21	51.6	39.6	45.6	+3.9	57	31st	28	3, 25	—	—	0.87	22	—	23	6	29th	9	7	0	0	1	0	0	1	—	—	—	—
	Folkestone	9	9	9	101	52.1	39.9	46.0	—	58	25, 26	32	3, 8	—	—	1.28	33	—	11	19th	13	10	0	0	1	0	3	—	2	4.81	—	41	
	Isle of Grain	18	—	7	10	54.1	38.2	46.2	—	65	24th	26	3rd	—	—	0.87	22	—	9	6th	11	5	0	0	0	1	4	15	0	4.97	—	42	
	Lympe	18	—	7	350	50.3	38.5	44.4	—	58	24th	28	3rd	—	—	1.21	31	—	7	19th	15	10	0	0	2	0	10	—	1	5.03	—	43	
	Margate	9	9	9	51	53.5	40.9	47.2	+4.7	61	24th	33	3, 8	45.7	46.2	0.81	21	—	19	5	6th	10	7	0	0	0	0	2	0	4.87	+0.84	41	
	Ramsgate	9	9	9	168	51.8	38.6	45.2	—	63	24th	30	3, 8	—	—	0.93	24	—	7	6th	11	7	0	0	0	0	0	—	0	5.23	+0.88	44	
	Sevenoaks	9	9	9	509	52.4	38.3	45.4	—	65	24th	29	8th	43.7	44.3	1.88	48	—	12	10	6th	15	9	0	0	0	1	0	4	0	4.52	—	38
	Tunbridge W.	9	9	9	354	53.4	37.7	45.6	+3.8	65	25th	26	3rd	45.1	45.3	1.84	47	—	16	10	6th	12	11	1	0	2	1	0	17	0	4.42	+0.42	37
Surrey.	Addington	9	9	9	472	51.4	37.4	44.4	—	63	24th	29	3rd	—	—	1.57	40	—	9	6th	13	10	—	—	—	—	—	—	—	—	—	—	—
	Croydon	18	—	7	245	53.2	39.3	46.3	—	64	24th	30	3rd	—	—	1.38	35	—	7	28th	13	10	0	0	3	0	2	7	0	—	—	—	—
	Wallington	9	9	9	140	53.6	39.2	46.4	—	66	24th	29	3rd	44.7	45.2	1.39	35	—	8	28th	14	9	0	0	0	0	1	23	0	—	—	—	—
	Wisley	9	9	9	150	53.8	37.9	45.9	+4.0	65	24th	28	8th	44.3	45.0	1.19	30	—	19	8	28th	13	8	0	0	0	0	0	21	0	4.32	+0.64	37
	Woking	9	9	9	179	54.8	37.2	46.0	—	66	24th	28	3, 8	43.9	—	1.32	34	—	8	29th	16	8	0	0	0	1	0	10	0	—	—	—	—
Sussex.	Ardingly	9	9	9	439	52.3	35.2	43.8	—	65	25th	25	8th	—	—	2.09	53	—	11	17th	17	14	0	0	2	0	0	12	0	—	—	—	—
	Bognor	9	9	9	20	50.9	40.5	45.7	+3.2	56	31st	30	8th	—	—	1.02	26	—	22	6	28th	11	9	0	0	0	0	2	6	0	5.13	+0.48	43
	Brighton	9	9	9	31	51.0	39.5	45.3	+2.5	55	24, 25, 31	29	8th	—	—	1.33	34	—	17	7	17th	15	9	0	0	2	0	0	1	0	4.97	+0.71	42
	Eastbourne	21	21	9	35	52.1	40.9	46.5	+3.7	60	25th																						

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7, 8 or 9 h.		RAINFALL.				WEATHER, Number of days.								BRIGHT SUNSHINE.			
						Means of				Deviation from Normal.	Absolute Maximum and Minimum.					Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per Day.			
						A	B	Mean of A and B.	Maximum.		Date.	Minimum.	Date.	Amount.	Date.			Daily Mean.	Deviation from Normal.									Per Cent.			
						Max.	Min.	Rain.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
7a. ENGLAND, N.W.					ft.	°F.	°F.	°F.	°F.	°F.	F	F	°F.	°F.	in.	mm.	mm.	mm.							hr.	hr.					
Cumberland.	Aspatria (Mealsgate)	21 21 9	487	47°0	36°3	41°7	+1°3	51	17th	21	7th	42°1	43°2	5°37	136	+ 56	15	28th	25	22	1	0	1	0	0	6	1	2°45	-1°29	21	
	Egremont	21 21 9	349	47°3	37°5	42°4	—	51	17th	25	7th	42°9	43°3	6°55	166	—	26	13th	28	23	1	0	1	0	0	6	0	2°23	—	19	
	Keswick	9 9 9	254	49°1	38°3	43°7	—	54	21, 31	23	7th	42°8	43°4	10°99	279	—	57	15th	29	25	2	0	2	0	0	10	0	2°29	—	19	
	Newton Rigg	21 21 9	559	48°4	36°0	42°2	+2°7	55	21st	23	7th	—	—	5°02	128	+ 56	—	—	26	22	—	—	—	—	—	—	—	2°55	-0°97	21	
	Scaleby	9 9 9	111	49°9	36°8	43°4	+2°9	53	16th	23	7th	—	—	3°16	80	+ 18	13	13th	21	17	—	—	—	—	—	—	—	—	—	—	
Lancashire.	Blackpool	9 9 9	66	49°9	40°5	45°2	+4°0	55	17th	26	7th	44°8	44°9	2°59	66	+ 6	10	13th	26	16	2	0	1	0	0	4	0	2°97	-1°19	25	
	Blundellsands	9 9 9	34	50°5	40°8	45°7	—	58	24th	27	7th	44°6	45°1	1°96	50	—	7	13th	21	15	0	0	1	0	0	6	0	—	—	—	
	Bolton	9 9 9	341	49°5	38°3	43°9	—	61	24th	30	7th	42°5	42°8	3°28	83	—	16	3rd	25	18	3	1	4	0	0	4	0	1°55	—	13	
	Burnley	9 9 9	458	48°7	36°9	42°8	—	58	24, 25	23	7th	42°3	43°0	3°79	96	—	15	3rd	25	16	—	—	—	—	10	—	—	2°52	—	21	
	Darwen	21 21 9	722	47°7	36°4	42°1	—	53	24th	25	7th	42°4	42°1	3°86	98	—	15	4th	25	18	6	0	3	0	0	17	0	2°58	—	22	
	Hutton	9 9 9	82	50°1	38°5	44°3	—	57	24th	24	7th	43°6	43°9	2°90	74	—	11	3rd	23	16	0	0	1	0	0	6	1	2°84	—	24	
	Lancaster	9 9 9	311	48°1	38°3	43°2	—	55	10, 17	25	7th	44°4	45°4	4°31	109	—	13	28th	26	21	1	0	5	0	0	7	0	2°19	—	19	
	Leyland	9 9 9	124	50°3	38°4	44°4	—	60	24th	24	7th	—	—	2°88	73	—	11	3rd	25	16	3	0	3	0	0	8	3	2°77	—	24	
	Morecambe	9 18 9	24	48°8	40°2	44°5	—	56	10th	27	7th	—	—	3°50	89	—	11	28th	26	18	1	0	0	0	0	—	—	2°84	—	24	
	Southport	9 9 9	37	50°2	40°1	45°2	+3°7	57	24th	27	7th	43°9	44°1	2°80	71	+ 14	9	13th	24	19	0	0	3	1	0	3	1	3°26	-0°71	28	
	Stonyhurst	9 9 9	375	48°8	38°5	43°7	+3°3	56	24th	27	7th	—	—	5°01	127	+ 33	24	3rd	25	20	3	0	5	1	0	4	1	2°55	-0°84	22	
Liverpool.	Bidston	21 21 9	188	50°4	39°8	45°1	+3°2	56	21, 24	30	7th	—	—	1°39	35	+ 13	9	13th	21	11	3	0	1	0	1	4	0	2°84	—	24	
Manchester.	Whitworth Pk.	21 21 9	125	51°1	39°8	45°5	+3°2	64	24th	30	7th	—	—	2°31	59	+ 2	9	3rd	20	18	0	0	2	0	0	—	—	1°84	-0°51	16	
	Oldham Road	21 21 9	190	50°4	38°4	44°4	+1°9	62	24th	31	7th	43°1	44°6	2°79	71	+ 5	10	3rd	23	19	3	0	1	0	0	—	—	0°26	-0°52	17	
	Alex. Park	18—7 7	99	51°1	39°2	45°2	—	63	24th	27	7th	—	—	2°41	61	—	9	3rd	21	14	0	0	1	0	1	11	0	—	—	—	
Cheshire.	Hawarden Br'ge.	9 9 9	22	52°3	40°5	46°4	+3°7	59	16, 21, 24	28	7th	—	—	1°06	27	—	14	4	28th	20	13	—	—	—	—	—	—	—	—	—	
	Hoyle	9 9 9	30	52°7	39°3	46°0	+3°2	59	16th	28	7th	—	—	1°78	45	—	2	10	13th	17	16	—	—	—	—	—	—	3°48	-0°23	29	
	Macclesfield	9 9 9	500	49°7	37°3	43°5	+3°3	62	24th	25	7th	—	—	2°49	63	—	4	6	4th	21	19	—	—	—	—	—	—	—	—	—	
7b and 8a. WALES.																															
Flint.	Rhyl	9 9 9	30	51°8	40°8	46°3	+4°0	57	21st	27	7th	—	—	1°53	39	—	4	5	15th	21	15	1	0	0	0	0	3	1	3°29	-1°03	28
Anglesey.	Holyhead	18—7 7	15	49°4	42°3	45°9	+3°2	53	21st	30	7th	—	—	3°69	94	+ 27	13	15th	26	16	0	0	5	0	1	1	3	2°45	—	21	
Carnarvon.	Colwyn Bay	9 9 9	81	51°5	41°4	46°5	—	59	21st	30	7th	—	—	2°50	64	—	17	15th	19	18	—	—	—	—	—	—	—	3°74	—	32	
	Llandudno	21 21 9	22	51°3	41°0	46°2	+3°2	58	16th	29	7th	—	—	1°97	50	—	5	8	28th	19	17	0	0	1	0	0	—	2°36	-0°74	28	
Merioneth.	Aberdovey	9 9 9	60	50°3	42°3	46°3	+2°8	55	10, 31	32	7th	—	—	4°13	105	—	17	3rd	26	21	0	0	2	0	0	0	0	3°19	-0°81	27	
Montgomery.	Welshpool	9 9 9	262	51°4	37°5	44°5	—	60	31st	27	7th	—	—	1°87	47	—	7	1st	15	12	0	0	0	0	0	0	—	—	—	—	
Pembroke.	Aberystwyth	9 9 9	16	48°9	41°9	45°4	—	54	10, 17, 24	32	7th	—	—	3°14	80	—	16	3rd	24	20	0	0	1	0	0	—	—	0°39	-0°58	27	
	Haverfordwest	21 21 9	250	49°4	40°5	45°0	—	53	21st	31	7th	—	—	4°81	122	+ 35	19	15th	26	21	1	1	1	1	0	—	—	3°84	-1°19	24	
	St. Ann's Hd.	18—7 7	149	48°6	43°0	45°8	+2°9	52	31st	33	30th	—	—	3°07	78	+ 12	13	29th	23	19	0	0	4	1	4	—	—	0°29	-1°25	25	
	Tenby	9 9 9	64	50°7	41°0	45°9	—	55	31st	32	3rd	—	—	3°83	97	—	15	14th	21	19	2	0	2	1	0	8	1	2°90	-1°45	25	
Brecknock.	Gwernyd Pk.	9 9 9	374	51°3	36°7	44°0	+3°0	59	24th	24	12th	—	—	1°88	48	—	12	10	14th	22	12	1	0	1	1	0	—	—	—	—	
Radnor.	Rhayader	9 9 9	757	48°7	37°7	43°2	—	55	24th	27	3, 12	—	—	4°49	114	—	24	3rd	27	19	1	0	1	0	0	9	0	3°03	—	26	
Glamorgan.	Cardiff	21 21 9	202	51°4	39°7	45°6	+3°6	59	24, 31	31	3rd	44°8	45°6	2°86	73	—	7	12	3rd	21	18	0	0	0	0	12	0	3°77	—	32	
	Swansea	9 9 9	25	51°4	41°2	46°3	—	57	31st	31	7th	46°7	48°8	4°16	106	—	17	12th	28	18	0	0	2	0	0	6	0	3°23	—	27	
Monmouth.	Newport	9 9 9	32	52°8	41°0	46°9	—	65	31st	35	3, 7	45°4	46°2	2°74	70	—	10	16th	22	17	1	0	1	0	0	—	—	—	—	—	
8b. ENGLAND, S.W.																															
Somerset.	Bath	9 9 9	66	52°9	39°3	46°1	+3°8	63	24th	27	3rd	45°3	46°1	2°09	53	—	3	7	13th	21	17	0	0	2	0	0	—	—	4°32	+0°38	37
	Long Ashton	9 9 9	162	52°4	39°3	45°9	—	62	24th	30	3rd	45°7	—	2°18	55	—	7	28th	21	16	0	0	2	0	0	12	0	4°39	—	37	
	Weston S. Mare	9 18 9	29	52°3	40°4	46°4	+3°1	60	24th	35	3, 7, 8	—	—	2°02	51	—	1	7	28th	21	14	0	0	0	0	0	6	0	3°90	—	33
Dorset.	Dorchester	9 9 9	314	51°0	37°4	44°2	—	60	25th	30	2, 9, 24	—	—	1°85	47	—	7	29th	21	11	0	0	0	0	0	—	—	—	—	—	
	Holton Heath	9 9 9	64	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Portland Bill	18—7 7	19	49°8	43°3	46°6	+3°3	52	13, 30, 31	35	8th	—	—	1°01	26	—	25	9	28th	11	10	0	0	0	0	1	—	—	—	—	—
Devon.	Shaftesbury	9 9 9	722	50°1	37°3	43°7	+2°9	58	24th	31	8th	44°6	45°1	1°70	43	—	17	9	28th	17	11	1	0	1	0	2	—	—	—	—	
	Weymouth	9 9 9	21	53°7	41°2	47°5	—	62	25th	31	3rd	—	—	1°25	32	—	6	28th	21	13	0	0	1	0	1	—	—	4°16	—	35	
	Arlington	9 9 9	613	49°5	38°4	44°0	+2°7	59	24th	30	7, 8	—	—	4°87	124	+ 22	18	3rd	23	22	—	—	—	—	—	—	—	—	—	—	
	Ashburton	9 9 9	583	51°6	39°2	45°4	+1°8	62	24th	33	8th	—	—	4°17	106	—	7	23	15th	24	16	0	0	2	0	0	—	—	—	—	
	Cullompton	9 9 9	202	53°2	37°3	45°3	+2°6	64	24th	28	3, 8	45°4	—	2°18	55	—	15	8	14th	21	16	0	0	2	0	2	19	0	3°29	-0°55	28
	Exmouth	9 9 9	11	52°6	39°8	46°2	—	58	25, 31	30	1st	—	—	1°71	43	—	12	14th	18	13	0	0	0	0	1	—	—	1°58	—		

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MARCH, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
								Means of				Absolute Maximum and Minimum.						Total Fall.		Deviation from Normal.		Most in a day.		Precipitation. Precipitation 1 mm. or more.		Snow lying.		Hail.		Thunderstorm.		Fog.		Ground Frost.		Gale.		Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	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TABLE III. (a).—ADDITIONAL VALUES OF SUNSHINE. FEBRUARY, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ...	5.26	+1.03	45
Hove ...	5.42	—	46
Watgate ...	4.16	—	35
LONDON, Bunhill Row	3.26	+0.92	27

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
Belper (R. Derwent) 9 h...	50	43	46.5	+3.3

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets. Birmingham (7), Ross on Wye (10), Glasgow (17), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked *g*, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

TABLES III. and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915 Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The symbols ¶, § placed against the names of stations in Table III. indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MARCH, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10).			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.	No. of days of Clear Sky.	Overcast.	Number of observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).			Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MARCH, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observations.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of Clear Sky.	No. of days of Overcast.	Number of Observations adjusted to a total of 30 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).	Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.					I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MARCH, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.				HYGROMETER.												CLOUD (0-10).				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.			No. of days of Clear Sky.		No. of days of Overcast.		Number of Observations adjusted to a total of 31 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, MARCH, 1921.

DISTRICT, COUNTY AND PLACE.				Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.				Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.				Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.						
				ft.	in.	mm.	%					ft.	in.	mm.	%					ft.	in.	mm.	%			
O. SCOTLAND, N.							2. ENGLAND, N.E.—cont.							8a. SOUTH WALES.												
Caith. Suth.	Thurso (Buckies) ...	240	2.87	73	—	—	Yk. E.R. Linc.	Holme-upon-Spalding-Moor ...	35	1.09	28	—	Rad. Card.	B'm'gham W. W. (Tyrmynydd) ...	832	6.41	163	119	—	—	—					
	Dornoch (St. Gilbert's) ...	35	2.06	52	—	—		Lowthorpe (The Elms) ...	63	0.84	21	42		—	—	Aberystwyth (Gogerddan) ...	83	4.42	112	127	—	—				
	Loch More (Achfary) ...	167	12.10	307	—	—		Boston (Black Sluice) ...	11	0.82	21	53		—	—	Devil's Bridge ...	825	6.78	172	—	—	—				
	Melvich Schoolhouse ...	—	1.88	48	—	—		Grantham (Saltersford) ...	188	0.76	19	—		—	—	Lampeter (Falcondale) ...	498	6.01	153	—	—	—				
	Tongue Manse ...	180	3.50	89	—	—		Horncastle ...	110	0.63	16	—		—	—	Tregaron (Maes-y-bettws) ...	910	8.50	216	—	—	—				
R. & C. Inv.	Alness (Ardross Castle) ...	450	3.79	96	116	—	Norf.	Louth (Westgate) ...	120	1.05	27	49	—	Pem. Carm.	Fishguard (Goodwick Station) ...	57	5.81	148	—	—	—					
	Loch Carron (Plockton) ...	4	10.15	258	—	—		3. ENGLAND, E.	Suff.	Aylsham (Rippon Hall) ...	90	1.08	27		—	—	—	Carmarthen (The Friary) ...	62	4.66	118	—	—	—		
	Loch Torridon (Bendamph) ...	20	15.78	401	210	—				Swaffham ...	250	1.15	29		64	—	—	Llanddeusant (Ponterynfe) ...	323	7.82	199	—	—	—		
	Arisaig (Faire-na-Sguir) ...	130	—	—	—	Thetford (Waterworks) ...				170	1.01	26	—		—	—	Cardiff, W.W. (Beacons Res.) ...	1340	10.22	260	—	—	—			
	Cluny Castle ...	900	6.75	171	—	Halesworth Rectory ...				50	1.18	30	—		—	—	Crickhowell (Tal-y-maes) ...	1250	2.50	64	—	—	—			
Drumnadrochit... ..	138	4.96	126	163	—	Hawkedon Rectory ...	305			0.87	22	46	—	—	Port Talbot (Twyn-yr-hydd) ...	180	3.25	82	—	—	—					
Loch Arkaig (Achnacarry) ...	120	24.18	614	—	—	Cambs.	Chatteris (The Priory) ...	45	0.89	23	—	—	Glam.	Treherbert (Tyn-y-waun) ...	801	13.34	339	—	—	—						
	Loch Quoich (Glenquoich) ...	569	18.25	464	188		—	Ashwell (Odsey) ...	256	0.77	20	—		—	8b. ENGLAND, S.W.	Llanfrechfa Grange ...	326	3.09	78	92	—	—				
	" (Loan) ...	650	28.50	724	—		—	Parson Grove (Clows Cross) ...	13	1.01	26	—		—		—	Newport W.W. (Newchurch) ...	550	—	—	—	—	—			
	N. Ballachulish (Alltshellach) ...	80	13.20	335	—		—	Elsenham (Gaunts End) ...	363	1.26	32	—		—		—	Brushford Rectory ...	450	3.08	78	—	—	—			
	Skye (Dunvegan) ...	47	9.91	252	—		—	Lexden (Hill House) ...	90	0.74	19	—		—		—	Crewkerne (Merefield House) ...	231	2.24	57	—	—	—			
" (Portree) ...	65	10.22	260	—	—	Essex.	1. ENGLAND, S.E.	4. MIDLAND COUNTIES.								Devon.	Launceston (Polapit Tamar) ...	315	3.40	86	114	—	—			
Moray.	Grantown-on-Spey ...	700	1.50	38	57		—	Yk. W.R. Derby.	Wath-upon-Dearne (Chapel St.) ...	188	0.73	18	—	—	Corn.		St. Austell (Trevarna) ...	300	3.43	87	100	—	—			
	Lbanbryde (Blackhills House) ...	300	2.02	51	—		—		Wetherby (Ribston Hall) ...	130	1.40	36	72	—			—	9. IRELAND, N.	Aasleagh House ...	30	12.15	309	—	—	—	
	Aberdeen (Cranford House) ...	120	2.28	58	88		—		Mickleover Manor ...	280	1.27	32	71	—			—		—	Crossmolina (Enniscoe) ...	74	6.62	168	147	—	—
	Fyvie Castle ...	200	1.94	49	—		—		Whaley Bridge (Mosley Hall) ...	760	3.63	92	—	—			—		—	Delphi Lodge ...	110	13.35	339	—	—	—
	Logie Coldstone (Loanhead) ...	743	1.67	42	62	—	Mansfield (West Bank) ...		405	1.19	30	—	—	—		—	Dugort (Slievemore Hotel) ...		50	—	—	—	—	—		
Peterhead (Forehill Works) ...	133	1.92	49	—	—	Notts. Rutl.	Uppingham (Ridlington) ...	527	0.80	20	—	—	—	—	Westport House ...	35	6.27		159	—	—	—				
Brechin (Trinity) ...	295	—	—	—	—		Nort'n.	Pitsford (Sedgebrook) ...	311	0.86	22	49	—	—	Galw'y.	Ballynahinch Castle ...	41	7.03	179	—	—	—				
Kinc. Forf.	Glen Prosen (Pearsie House) ...	600	3.02	77	—			—	Wellington (Swanspool) ...	155	0.77	20	43	—		—	—	Galway (Grammar School) ...	60	5.14	131	—	—	—		
	Montrose (Sunnyside Asylum) ...	200	2.29	58	110			—	Farnborough ...	515	1.55	39	73	—		—	—	Woodlawn ...	300	3.69	94	118	—	—		
	Aberfeldy (Dall Avon) ...	320	5.64	143	—			—	Oxford (Magdalen College) ...	186	0.85	22	56	—		—	—	Killybegs (Rockmount) ...	65	6.83	174	134	—	—		
	Balquhider (Stronvar) ...	422	12.40	315	201	—		Oving House ...	515	1.20	30	—	—	—		—	Letterkenny (District Asylum) ...	183	5.78	147	—	—	—			
	Blair Atholl ...	420	4.90	124	190	—	Bucks. Staff. Salop.	Lichfield (St. John Street) ...	269	1.10	28	—	—	—	—	Milford (The Manse) ...	150	5.11	130	—	—	—				
Coupar Angus ...	183	2.46	62	112	—	Church Stretton (Wolstaston) ...		800	2.62	66	111	—	—	—	Narin (Kiltoorish) ...	—	6.69	170	—	—	—					
Glendevon (Glenquey Res.) ...	945	9.80	249	—	—	Shifnal (Hatton Grange) ...		262	1.57	40	85	—	—	—	Londonderry (Creggan Res.) ...	320	4.23	107	132	—	—					
Killin (The Manse) ...	400	13.53	343	—	—	Wor.		Barnt Green (Upwood) ...	650	1.04	26	—	—	—	—	Ballymena (Harryville) ...	150	3.70	94	117	—	—				
Kirkmichael (Ballintuin Ho.) ...	700	4.42	112	—	—			Blockley (Upton Wold) ...	800	1.73	44	80	—	—	—	Belfast (Cave Hill Road) ...	200	3.37	86	—	—	—				
Loch Dhu ...	325	13.70	348	208	—		Here.	Bromyard (Rowden Abbey) ...	456	1.46	37	—	—	—	—	Glenarm Castle ...	70	3.76	96	—	—	—				
Loch Rannoch (Dall) ...	772	7.14	181	—	—			Ledbury (Underdown) ...	307	1.09	28	—	—	—	—	Omagh (Edenfel) ...	280	5.11	130	163	—	—				
Loch Venacher ...	275	9.30	236	214	—			Glous.	Cirencester (Dollarwood Ho.) ...	366	2.00	51	93	—	—	—	Sion Mills (Sion House) ...	100	4.92	125	—	—	—			
Midl. Had. Selk.	Balerno (Cockburn Hill) ...	767	3.43	87	—	—			Clifton (Stoke Bishop) ...	243	1.96	50	—	—	—	—	Banbridge (Milltown) ...	200	2.24	57	102	—	—			
	North Berwick Reservoir ...	150	1.78	45	95	—			5. ENGLAND, S.E.	7a. ENGLAND, N.W.							Tyrone.	Mourne Mts. (Fofanny Res.) ...	938	5.75	146	—	—	—		
	Ettrick Manse ...	796	9.87	251	—	—	Mid. Kent.		Harrow Weald (Hill House) ...	284	1.44	37	—	—	—	—		Seaford ...	180	3.43	87	117	—	—		
	Selkirk (The Hangingshaw) ...	670	4.10	104	130	—			Sevenoaks (Speldhurst Close) ...	470	1.67	42	—	—	—	—		Warrenpoint (Clonallon) ...	15	3.06	78	—	—	—		
	Hawick (Bransholme) ...	457	4.12	105	142	—		Tenterden (View Tower) ...	190	1.57	41	73	—	—	—	Enniskillen (Portora) ...		251	3.50	89	—	—	—			
Jedburgh (Jedneuk) ...	270	1.90	48	91	—	Reigate (Hartwood) ...		174	1.34	34	—	—	—	—	Ballymahon (New Castle) ...	250		2.69	68	—	—	—				
6. SCOTLAND, W.	Dalmally (Manse of Glenorchy) ...	150	12.35	314	—	—		Surrey.	Hailsham Vicarage ...	105	1.71	43	71	—	—	—	Mullingar (Belvedere) ...	367	2.73	69	101	—	—			
	Eriska (Ledaig) ...	30	9.52	242	—	—	Sussex.		Patching Farm ...	180	1.27	32	59	—	—	—	Drogheda (Mullacrogan) ...	300	2.36	60	—	—	—			
	Inveraray Castle Gardens ...	40	14.57	370	230	—			Ufton Nervet Rectory ...	308	1.26	32	—	—	—	10. IRELAND, S.	Balbriggan (Ardgillan) ...	211	2.34	59	116	—	—			
	Ielay (Eallabus) ...	68	6.64	166	171	—			Ashley (Old Manor House) ...	235	1.33	34	—	—	—		—	Rathmines (Harold's Cross) ...	155	1.87	48	—	—	—		
	Mull (Quinish) ...	35	8.60	218	194	—			Fordingbridge (Oaklands) ...	135	1.53	39	66	—	—		—	—	Rathnew (Clonmannon) ...	27	2.64	64	—	—	—	
Poltalloch ...	132	8.75	222	230	—	Devizes (Highclere) ...		480	1.48	38	—	—	—	—	—		Abbey Leix (Blandsfort) ...	532	3.21	82	123	—	—			
Bute Dumb. Lank. Glas'w. Ayr.	Dougarie Lodge ...	10	5.12	130	—	—	Berks. Hants. Wilts.	Cumb. West. Lancs.	Borrowdale (Seathwaite) ...	423	20.05	509	180	—	—		Wick. Q. Co. Car. Wex. Wat.	Hacketstown Rectory ...	600	2.85	72	—	—	—		
	Arrochar (Glen Loin) ...	50	12.44	316	—	—			Orton ...	770	9.31	236	—	—	—	—		Gorey (Courtown House) ...	60	3.19	81	138	—	—		
	Biggar ...	691	4.46	113	—	—			Garstang (Holme H., Bleasdale) ...	650	5.45	138	—	—	—	—		Tramore (Midvale) ...	115	2.82	72	—	—	—		
	Queen's Park ...	114	5.41	137	207	—			Grange-over-Sands (Holmercroft) ...	330	5.26	134	—	—	—	—		Waterford (Brook Lodge) ...	104	3.31	84	120	—	—		
	Girvan (Pinmore) ...	207	7.24	184	192	—			Lancaster (Strathspey) ...	87	4.07	103	—	—	—	—		Cashel (Ballinamona) ...	257	2.73	69	—	—	—		
Dumf. Kir k. Wigt.	Maybole (Knockdon Farm) ...	352	6.21	158	—	—	Ches.	Nantwich (Dorfold Hall) ...	190	1.50	38	—	—	—	—	Clonmel (Bruce Villa) ...	110	3.76	96	—	—	—				
	New Cumnock (Ayr Sanat'm.) ...	850	9.73	247	—	—		7b. NORTH WALES.	Angl. Carn.	Lligwy ...	170	3.86	98	—	—	—	—	Ennistymon House ...	37	6.14	156	181	—	—		
	Durrisdeer (Drumlanrig) ...	191	7.29	185	—	—				Bethesda (Penrbyn Quarries) ...	528	8.97	228	—	—	—	—	Inagh (Mount Callan) ...	479	6.54	167	—	—	—		
	Hoddam Castle ...	150	—	—	—	—				Carnarvon (Llanbeblig) ...	125	4.06	103	—	—	—	—	Newmarket-on-Fergus (Carri- goran) ...	86	3.29	84	—	—	—		
	Langholm (Drove Road) ...	270	7.84	199	—	—				Snowden (L. Llydaw), No. 9 ...	1480	27.62	702	—	—	—	—	—	Castleconnell Rectory ...	88	3.39	86	—	—	—	
Moniaive (Maxwelton House) ...																										

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

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No. IV.

APRIL, 1921.

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SUNNY AND DRY.

THE pressure distribution over north-west Europe underwent some very marked fluctuations during April, and the weather and temperature were in consequence very changeable. Between the 15th and the 20th very cold weather was general, and snow fell in many places in the British Isles and on the Continent. Night frosts were of frequent occurrence during the month, and reports in the press showed that damage was done in many parts of England.

At the beginning of the month a belt of high pressure extending from the Azores to Central Europe maintained fair warm weather over the greater part of the British Isles. Temperature reached 29.4 in the screen at Aberdeen on the 1st, the highest figure yet recorded at that station in the first week in April. After the 3rd depressions moving eastward along the Arctic circle caused cooler and less settled weather, especially in the north. Between the 6th and the 8th an anticyclone moved north-eastward over the British Isles to Scandinavia, and on the 7th and 8th the weather was cloudless over practically the whole of the British Isles, but there was a cold north-east wind and frost at night locally. A depression which was centred off the south-west coast of Italy on the morning of the 8th moved westward to the north-west of Spain by the 11th. A small secondary to this depression also moved west, and caused rain at a few German stations on the 8th and showery weather over England on the 9th. There were hail showers in many places, snow on the high ground in Derbyshire, and a thunderstorm at Sheffield, during which two horses were killed by lightning. In the rear of the secondary fine weather appeared over Poland on the 8th and spread westward, extending from east to west over England during the 10th. At South Farnborough a maximum temperature of 29.3 was recorded on that day. The weather remained fair over the British Isles till the 13th, with warm days inland, but in France there were a few local thunderstorms, and some heavy rain in the extreme south.

At about this time there was a very complete change in the conditions over north-west Europe. The Scandinavian anti-cyclone broke up after the 10th, part of it moving away to the south-east and the remainder passing in a south-westerly direction over the British Isles. A depression from the west reached the North Cape and became much deeper, and by the morning of the 13th there was a powerful northerly current between this depression and an anticyclone over Greenland, which soon spread over the whole of western Europe and caused a spell of very cold weather. At Kew Observatory the maximum temperature was 29.4 on the 13th, 28.3 on the 14th, and 27.8 on the 15th. There was also a large fall in the temperature of the upper air, amounting to 15 a at 13,000 feet at Baldonnel (near Dublin) between the mornings of the 13th and 14th, with a further fall of 3 a by the 15th, the figure being then 47 a. The incursion of the cold air caused a rain-line to advance over the British Isles during the 13th and the ensuing night, but the fall was nowhere very large. At 7 h. on the morning of the 14th there was a practically continuous line of rain from the Scilly Islands to Memel, on the Baltic, which continued to move south-eastward. A secondary depression, which developed near the Farøe Islands on the afternoon of the 13th, moved south-east to Denmark and became much deeper, intensifying the northerly current over the British Isles and causing a gale on our eastern coasts and in the Irish Sea. Snow and hail showers fell very generally over the British Isles from the 14th to the 16th, but the amounts were not large. Frosts were experienced at night over a very large area; on the night of the 15th the screened thermometer fell to 26.5 a at Eskdalemuir and to 26.7 a at Benson, while at Howden a grass minimum of 26.2 a was recorded. Maxima below 27.7 a were observed at some northern stations. The Danish depression moved away north-north-east and filled up, but a new depression from Iceland moved in a south-easterly direction over the British Isles to France on the 17th, causing a fall of snow in many places, including London and Paris. Except on high ground the snow melted as it fell. The centre of the depression moved across south-east England during the afternoon, with dull weather and rain or snow in a cold south wind to the east of the centre, and variable skies with hail showers and local thunder in the warmer north-west wind to the west. At 13 h. the temperature was 27.7 a at Kew, but 28.2 a at South Farnborough. The rainfall during the passage of the depression was general over the British Isles, but did not amount to an inch at any of the telegraphic reporting stations. The heaviest rainfall during the cold period was in eastern France, Belfort receiving a total of 77 mm. (3.1 inches) of rain and melted snow from the 14th to the 17th (inclusive).

In the rear of the depression of the 17th pressure rose decidedly over the British Isles, but the upper air temperature remained very low for a time, and thunderstorms were experienced locally over the British Isles on the 18th, and in eastern England on the 19th. On the evening of the 19th there was a sharp thunderstorm in North London, damage being done by lightning at Edmonton. There was further snowfall in parts of Scotland in the early hours of the 18th, and sharp night frosts were again experienced generally. Meanwhile cold disturbed weather continued further east. A depression moved up from the Adriatic to east Poland on the 17th and 18th, and then turned north-north-west and became very deep, being centred near Stockholm on the morning of the 19th. Severe gales occurred over Sweden, but the depression afterwards filled up quickly.

After the 20th conditions became rather milder over the British Isles, being influenced by two depressions which moved north-east over Iceland. The first of these depressions affected Spitzbergen and caused unusually heavy precipitation, apparently mainly in the form of rain. The measurement was 60 mm. (2.4 inches) on the 22nd and 36 mm. (1.3 inches) on the 20th; the total from the 19th to the 24th being 132 mm. (5.2 inches). A "V"-shaped secondary caused rain in Ireland on the night of the 20th, and then filled up, but another one followed it and caused rain over the whole of the

British Isles, and local thunderstorms in Southern England, on the afternoon of the 23rd.

Another rapid change then took place in the pressure distribution. The depression which lay between Iceland and Greenland on the 23rd filled up rapidly, and an anti-cyclone spread up from the south-west and joined another anticyclone which had formed over Northern Scandinavia, forming a long ridge of high pressure. The "V"-shaped secondary which crossed the British Isles on the 23rd dispersed quickly, its southern extremity being absorbed by another disturbance which moved westward from Poland, secondary to a deeper depression which had formed over the Mediterranean. This secondary depression which moved west caused heavy rain on the Continent on the 23rd (Hamburg, 50 mm., Belfort, 95 mm.), and small amounts in eastern England on the night of the 24th. For the rest of the month the pressure distribution was dominated by a large anticyclone over Scandinavia, which moved slowly westward, being centred near the Farøe on the 30th. There was a general easterly to north-easterly current over western Europe, with mainly fair weather. In the British Isles there was much cloud till 27th, but it then became fair. Local thunderstorms were experienced at a few western and midland stations on the 27th and 28th, and on the south coast on the 30th. Temperature reached 29.4 a at several stations in southern England and on the Continent and exceeded 30.0 a in southern France.

Visibility over the British Isles was mainly good during the month, but there was local morning fog on the opening days and on the 26th and 27th. There was also some local sea-fog in the last week, especially on the east coast. Clouds were very low all day in south-east England on the 17th and 24th.

In Scotland mild weather prevailed until the 13th, when the temperature fell decidedly, with wintry conditions during the next few days. From the 19th or 20th the weather was again for the most part mild, with highest readings nearly everywhere during the last few days, and the mean temperature of the month was in general the highest for April since 1914. The month was a very dry one, and a great part of Scotland had less than half the normal rainfall. Most of the month's precipitation occurred between the 12th and 17th, much of it accounted for by snow; but there was rain in some districts around the 3rd and somewhat generally around the 22nd. At Dundee and Edinburgh more than half the month's small total was due to a fall of snow during the night 17th-18th. A severe snowstorm set in towards the North and on the Borders on the 14th, and continued in some districts on the 15th. Another snowstorm on the night 17th-18th was experienced mainly in eastern districts, but the snow quickly disappeared.

Air Pressure. As shown by the map on p. 45 the distribution of pressure was of an anticyclonic type, conditions which were reflected in the small rainfall. The mean monthly air pressure was abnormally high, especially over the northern parts of the Kingdom, and has been exceeded in Scotland in April during the past fifty years only in 1893. At the telegraphic reporting stations the departures from the normal ranged from 9.1 mb. at Castlebay to 5.4 mb. at Dungeness. The highest reading during the month was 1042 mb. at Lerwick on the 9th, and the lowest 988 mb. at Castlebay on the 16th. At Valencia Observatory the mean for the month (1022.5 mb.) equalled the value for 1912, and with the exception of 1896 was the highest mean for April in records extending as far back as 1866.

Temperature. The mean monthly temperature was above the normal in all districts, the excess ranging from 1.2 a in Scotland North to 0.4 a in the English Channel. The nights however were often very cold, and in most parts of the country the mean minimum was below that for January. Ground frosts also were numerous and at some of the inland stations much damage was done to vegetation and fruit blossoms.

Precipitation. In all Districts (See Table I, p. 44) the total precipitation was below the normal, the deficiency ranging from 46 mm. in Ireland South to 4 mm. in England East. In fact the rainfall appears to have been deficient in all parts of the country, except a portion of East Anglia. The deficiency was greatest in the south-west of England and Wales, the south of Ireland, and the south and centre of Scotland, in all of which areas less than half the normal fell. A narrow strip along the south coast of Ireland received only 25 per cent. of the normal. Considerable areas in the Thames Valley and in the east of Great Britain between Yorkshire and Perthshire, as well as in the south-east of Ireland, had a total of less than 25 mm. Only restricted areas in England, Wales, and Ireland had as much as 50 mm. The West Highlands were, however, rather wetter. The general rainfall expressed as a percentage of the normal was:—England and Wales 59; Scotland 61; Ireland 46; and the British Isles as a whole 56.

Sunshine. An outstanding feature of the month's weather was the abundant sunshine. In all Districts the daily mean was above the normal, the excess ranging from 2.18 hours per day in England South-West to 1.07 hours in England North-East. The Observer at Southport reports that there was during the month a quite remarkable prevalence of clear night skies.

Optical Phenomena. Solar and lunar haloes were occasionally reported with parhelia and paraselenae at one or two stations. A sun pillar was seen at Mayfield on the 18th; and the Zodiacal Light at Stonyhurst on the 2nd, 4th and 7th, and at Tenbury on the 8th, 14th and 15th.

Aurora was observed at Eskdalemuir on the 13th, at Tenbury on the 23rd, and in the Orkneys on the 30th.

Note. The article by Captain C. K. M. Douglas in the Meteorological Magazine for May has been utilised in the preparation of these notes.

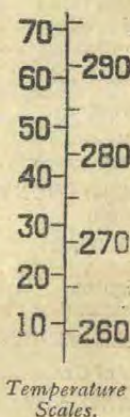


TABLE I.—DISTRICT VALUES—APRIL, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL			
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per- cent.	I.	II.	III.	High- est	Date.	Low- est	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a. 200+	a. 200+	a. 200+	a. +1.2	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	
0. SCOTLAND, NORTH ...	73	26	84.3	76.3	80.3	+1.2	79.7	—	—	—	1.97	50	— 32	13	6.60	+2.05	46	6.2	5.5	5.3	1042	9	988	16
Eastern.																								
1. SCOTLAND, EAST ...	73	18	84.7	75.1	79.9	+0.7	80.2	—	79.6	+0.6	0.93	24	— 23	10	6.36	+1.42	45	5.9	5.6	5.3	1040	8	993	17
2. ENGLAND, N.E. ...	71	19	85.3	76.7	81.0	+1.1	80.8	+0.7	80.7	+1.2	1.05	27	— 12	13	6.29	+1.07	45	5.5	6.4	5.3	1037	8	994	17
3. ENGLAND, EAST ...	73	27	85.9	76.8	81.3	+0.7	81.9	+0.8	81.8	+1.0	1.28	33	— 5	11	7.10	+1.55	51	5.4	5.2	4.4	1032	7	994	17
4. MIDLAND COUNTIES ...	72	21	86.5	76.2	81.3	+0.8	81.3	+0.8	81.0	+1.1	1.00	25	— 19	10	6.15	+1.13	44	5.5	5.8	4.7	1034	7	992	17
5. ENGLAND, S.E. ...	74	21	86.7	77.1	81.9	+0.7	82.2	+1.0	81.9	+1.2	1.05	27	— 16	10	7.39	+1.74	54	4.8	5.7	4.6	1032	7	992	17
Western.																								
6. SCOTLAND, WEST ...	73	18	85.1	76.7	80.9	+0.8	80.8	—	80.2	+0.5	1.55	39	— 31	12	6.32	+1.17	45	6.2	6.9	5.1	1038	9	991	17
7. ENGLAND, N.W. ...	73	22	85.1	76.8	80.9	+0.5	80.9	+0.5	80.7	+0.8	1.25	32	— 20	10	6.61	+1.40	47	5.8	5.8	4.8	1035	8	992	17
8. ENGLAND, S.W. ...	73	23	86.2	77.2	81.7	+0.6	83.0	+0.9	82.5	+0.9	1.03	26	— 34	9	7.72	+2.19	56	4.3	4.8	3.1	1032	8	994	17
9. IRELAND, NORTH ...	69	25	85.2	77.3	81.3	+0.8	81.8	+0.5	81.2	+0.7	1.22	31	— 30	12	6.72	+1.83	48	5.4	5.5	5.1	1037	8	989	17
10. IRELAND, SOUTH ...	74	27	86.1	77.7	81.9	+0.6	82.0	+0.7	81.7	+0.7	0.79	20	— 46	11	6.85	+1.47	49	5.5	6.6	4.8	1035	8	993	17
11. ENGLISH CHANNEL ...	65	33	86.1	79.3	82.7	+0.4	83.7	+1.1	83.2	+1.3	1.01	26	— 23	11	8.10	+1.71	59	5.9	5.4	2.6	1031	5	996	17
Mean: DISTRICTS 1-10..	74	18	85.7	76.8	81.2	+0.7	81.5	+0.7	81.1	+0.9	1.12	28	— 24	11	6.75	+1.50	48	5.4	5.8	4.7	1040	—	989	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—APRIL, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††										Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.		2 to 5 m/s.		Less than 2 m/s.		No Record.		Highest Hourly Wind.		Highest Gust.	
				Dates of Occurrence.	Duration.	No. of Days.	Duration	Duration.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.	Speed.	Date.
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d. h. m.
Deerness (Cup Anr.) ...	188	16	5	13, 14	12	14	90	242	340	36	0	340	22	14	2	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	—	0	14	373	333	0	340	8	14	7	21	14	9 40	—
†Aberdeen (Cup Anr.) ...	120	72	12	—	0	1	8	111	472	129	0	300	13	14	5	—	—	—	—
Balmakewan ...	140	25	18	—	0	2	10	104	366	220	20	340	14	14	11	23	14	15 55	—
Rosyth ...	85	73	19	—	0	5	15	276	316	108	5	320	15	14	11	26	14	10 35	—
Edinburgh ...	485	39	31	—	0	5	17	237	351	115	0	180	15	22	24	23	14	8 10	—
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	0	5	28	225	342	125	0	340	15	14	7	24	14	7 30	—
Paisley ...	188	81	15	—	0	1	1	189	397	133	0	320	11	14	13	23	9	13 40	—
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	0	1	6	66	375	273	0	330	14	14	13	25	14	12 30	—
South Shields ...	72	61	12	—	0	3	8	167	392	153	0	340	16	14	10	25	14	10 10	—
Spurn Head ...	66	40	†	—	Instrument	dismounted.	—	—	—	—	—	—	—	—	—	—	—	—	—
Cranwell ...	278	43	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Howden ...	59	40	30	—	0	8	19	187	222	292	0	330	15	14	13	22	14	12 35	—
3. ENGLAND, E.																			
Gorteston ...	52	42	†	—	0	10	66	321	275	58	0	{ 110 } 180	13	{ 9 } 17	{ 8 } 10	24	14	15 50	—
Felixstowe ...	51	30	18	—	0	5	26	266	363	63	2	120	14	17	14	23	14	12 20	—
Shoburness ...	103	90	†	—	0	3	19	178	413	110	0	180	14	17	7	19	17	6 40	—
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	2	4	207	368	141	0	50	12	8	16	19	14	12 40	—
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Brighton ...	261	53	6	—	0	1	2	223	394	101	0	—	13	17	6	20	17	6 30	—
Larkhill (S'y Plain) ...	513	63	30	—	0	6	38	382	274	26	0	360	14	24	10	19	23	16 50	—
Richmond (Kew Obs.) ...	82	65	22	—	0	0	0	118	431	171	0	{ 70 } 30	10	{ 7 } 8	{ 13 } 18	17	{ 9 } 15	{ 10 } 14	{ 50 } 30
Isle of Grain ...	46	45	30	—	0	7	60	205	241	214	0	50	15	8	17	21	14	19 20	—
7. ENGLAND, N.W.																			
Fleetwood (Cup. Anr.) ...	109	44	—	14	14	8	32	236	322	43	73	300	22	14	7	—	—	—	—
Southport ...	80	62	48	14	4	9	62	309	309	36	0	300	19	14	8	24	14	7 50	—
Holyhead ...	60	40	†	14	5	13	90	333	242	44	6	290	19	14	9	26	9	15 40	—
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	7, 11	2	20	163	411	69	19	56	—	18	7	11	22	17	10 30	—
Plymouth ...	185	88	2	—	0	2	5	224	398	83	10	—	14	8	22	22	8	21 45	—
Lyme Regis** ...	556	61	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	—	0	9	48	262	303	103	4	260	15	5	9	—	—	—	—
Quilly ...	100	40	†	—	0	9	47	373	251	49	0	—	15	17	6	23	17	3 30	—
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	5	19	344	250	102	5	330	13	17	11	24	17	3 50	—
Weaver Pt. ...	160	30	†	—	0	7	16	326	334	44	0	—	13	21	12	22	23	12 50	—
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	—	0	4	22	221	342	111	24	310	16	17	14	28	17	8 45	—

† Tube anemograph out of action since Feb. 5th, 1920.

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]

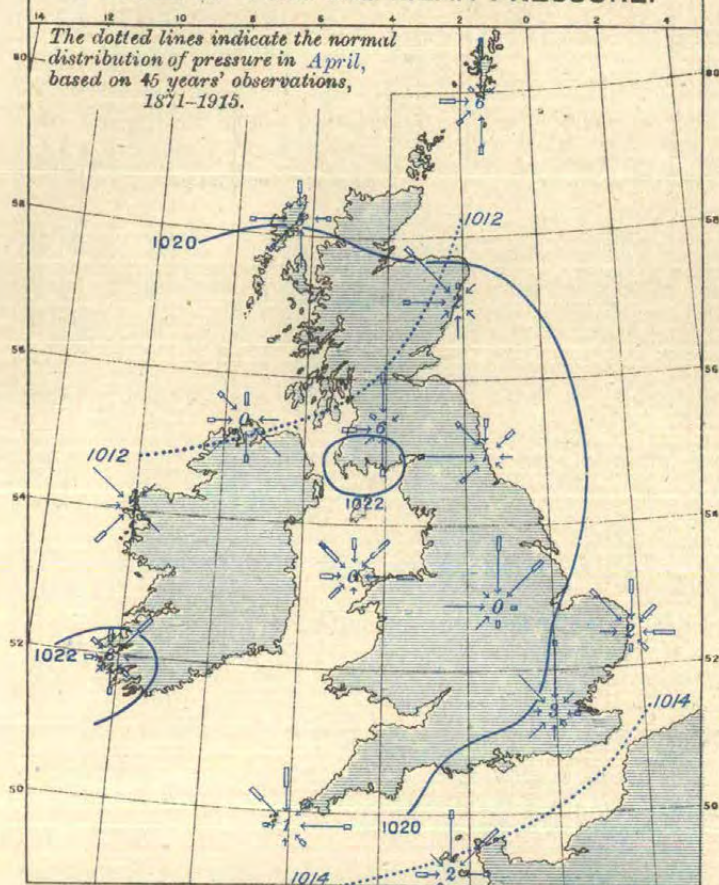
* Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

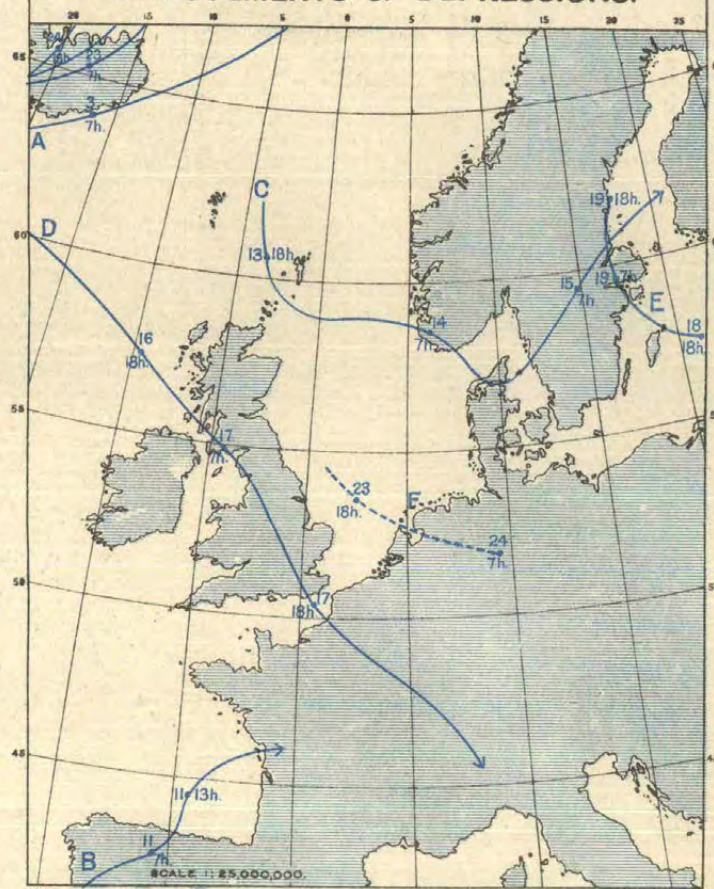
** Records defective.

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

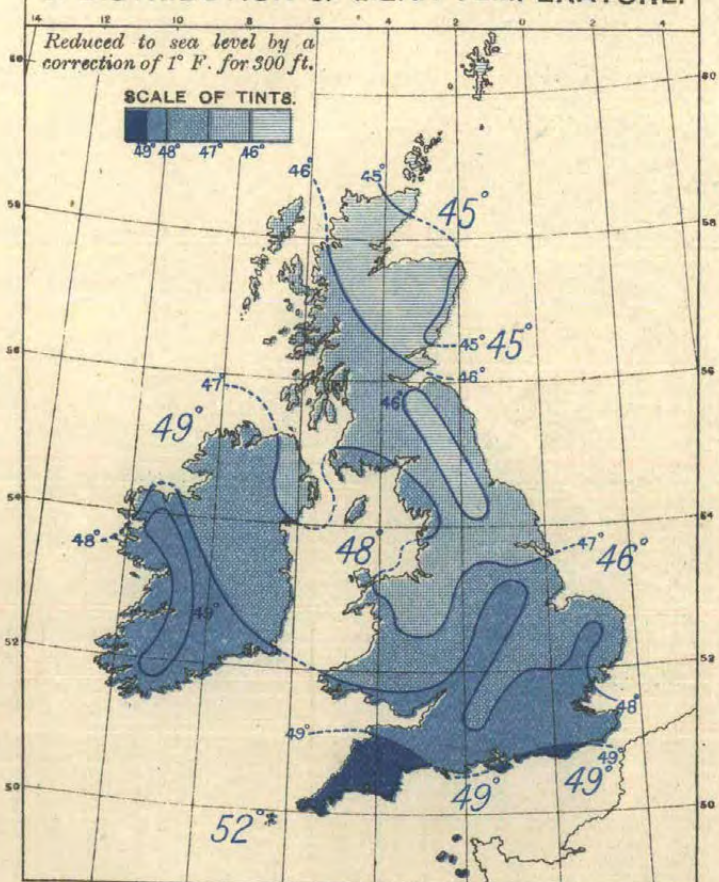


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: LIGHT MODERATE GALE TO STRONG K 30 OBS = 1 inch = 1

2. MOVEMENTS OF DEPRESSIONS.

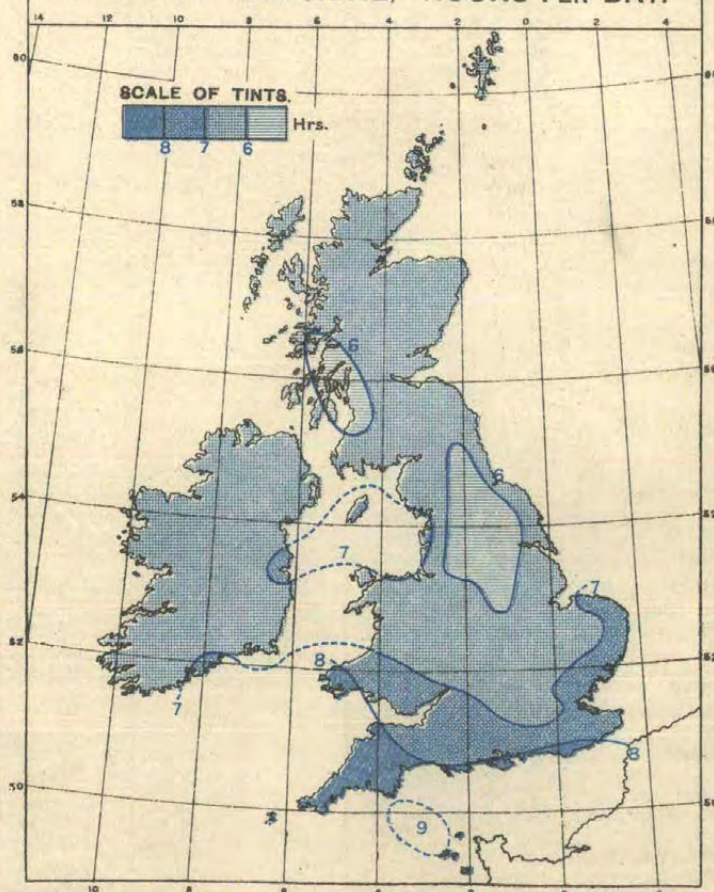


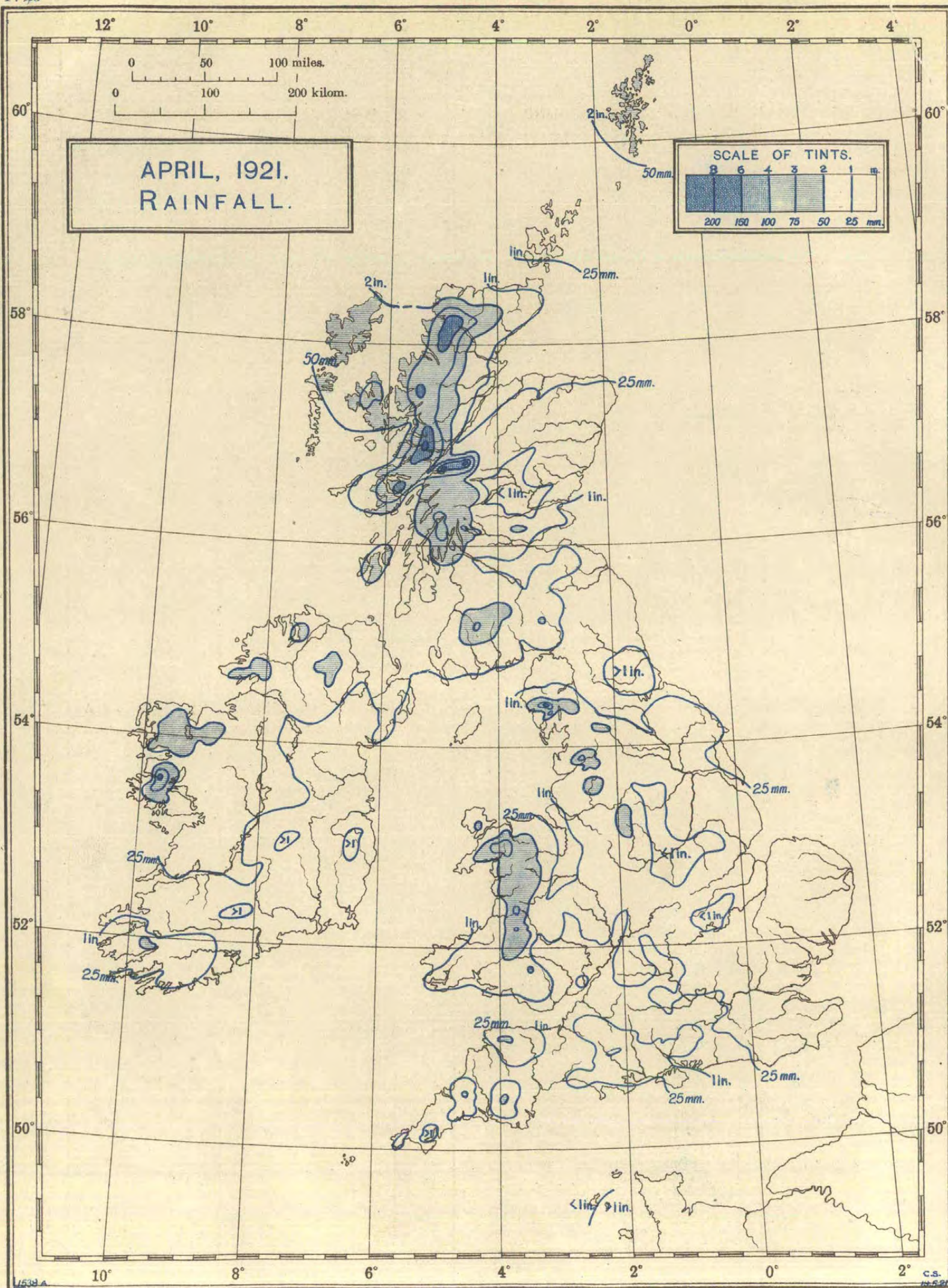
3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 46°

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

Rs. 3671/357. Wt. 37. D. 617/P. 147. 1700. 5/21.

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Snow lying.	Snow falling.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
									Maximum.	Date.	Minimum.	Date.														Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.		
						Max.	Min.	Max.					Min.			Max.	Min.	1 ft.	4 ft.	Precipitation 1 min. or more.	Snow.	Hail.	Thunderstorm.	Daily Mean.	Deviation from Normal.						Per Cent.	
0. SCOTLAND, N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
Shetlands.	Baltasound ...	9 9	9	31	49.6	38.1	43.9	—	60	29th	28	17th	43.7	—	2.27	58	—	14	12th	15	10	5	2	6	0	2	—	6.30	—	43		
	Lerwick ...	18—7	7	54	48.5	38.8	43.7	+2.2	62	29th	29	16th	—	—	2.61	66	+8	19	12th	14	11	3	0	2	2	—	—	—	—	—		
Orkney.	Deerness ...	21 21	9	160	49.3	39.1	44.2	+1.9	59	30th	29	16th	—	—	1.50	38	—15	10	12th	15	10	7	0	2	0	3	2	6.80	+1.93	47		
	Kirkwall ...	9 9	9	100	—	—	—	—	—	—	—	—	—	—	2.04	52	—	9	12th	16	12	5	3	4	0	1	—	—	—	—		
Hebrides.	Castlebay ...	18—7	7	37	50.0	43.7	46.9	—	63	29th	32	15th	—	—	1.43	36	—	9	16th	14	10	3	1	4	0	3	0	6.30	—	44		
	Stornoway ...	18—7	7	51	52.7	40.2	46.5	+3.0	67	28th	29	15, 16	—	—	2.50	64	—13	9	12th	14	12	3	0	3	0	—	6.40	+1.27	45			
Caithness, Sutherland, Ross and Cromarty.	Wick ...	18—7	7	81	49.2	38.6	43.9	+0.9	61	1st	28	16th	—	—	1.02	26	—25	6	13th	16	9	5	1	3	0	4	—	—	—	—		
	Dunrobin ...	8 8	8	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Fortrose ...	9 9	9	69	52.9	38.6	45.8	—	66	30th	29	15, 16	—	—	0.65	17	—	4	13th	9	7	1	2	0	0	1	—	6.13	—	43		
	Glencarron ...	21 21	9	500	52.1	36.7	44.4	+1.7	69	29, 30	27	16th	—	—	3.14	80	—72	16	12th	15	13	3	2	0	1	0	—	—	—	—	—	
Inverness.	Strathpeffer ...	9 9	9	125	54.9	36.4	45.7	+1.7	69	30th	28	16th	—	—	1.33	34	—16	8	16th	7	7	3	3	0	0	0	—	—	—	—	—	
	Ft. Augustus ...	8 8	8	68	53.8	36.3	45.1	+1.2	70	28, 29	26	15, 16, 18	—	—	0.93	24	—41	—	—	10	8	4	2	1	0	0	—	—	—	—	—	
	Ft. William ...	21 21	9	171	55.2	38.0	46.6	+1.8	73	30th	27	15th	—	—	2.27	58	—55	11	12, 22	13	11	2	2	0	0	0	—	—	—	—	—	
	Inverness ...	21 21	9	98	55.7	37.5	46.6	—	71	29, 30	30	15, 16	45.3	—	0.62	16	—24	4	13th	8	6	2	2	2	0	0	5	1	6.10	—	43	
1. SCOTLAND, E.																																
Nairn.	Nairn ...	18—7	7	82	54.3	35.6	45.0	+1.1	70	27, 28	28	15th	—	—	0.56	14	—24	4	13th	11	6	2	1	3	0	0	—	6.50	—	46		
	Gordon Castle ...	21 21	9	101	54.8	36.9	45.9	+1.7	68	28, 29	29	9, 16	—	—	0.68	17	—28	5	13th	10	6	4	0	4	0	2	—	6.77	—	48		
Banff.	Banff ...	17—9	9	6	53.3	37.3	45.3	—	65	28th	30	16th	—	—	0.91	23	—	6	13th	11	9	2	0	3	0	0	18	0	6.73	—	47	
	Aberdeen ...	24 24	24	46	51.1	37.8	44.5	+0.6	67	1st	29	16th	—	—	44.0	1.51	38	—10	16	17th	10	8	5	1	2	0	4	15	0	6.87	+1.60	48
Kincardine, Forfar.	Balmoral ...	9 9	9	930	52.6	31.2	41.9	—1.8	68	30th	20	16th	—	—	1.09	28	—29	8	13th	11	7	4	5	0	0	0	21	0	—	—	—	
	Braemar ...	21 21	9	1120	52.2	30.7	41.5	+0.8	68	30th	18	16th	—	—	0.83	21	—38	4	14th	8	7	4	3	0	0	0	22	0	—	—	—	
	Logie Coldstone ...	9 9	9	608	54.3	33.5	43.9	—	70	30th	23	9th	—	—	1.26	32	—19	7	13, 17	11	8	3	—	1	0	0	24	0	—	—	—	
	Crathes ...	9 9	9	140	54.5	36.8	45.7	+2.2	70	1st	26	16th	43.7	42.6	1.25	32	—20	15	17th	12	9	2	2	2	0	0	11	1	6.17	+1.14	43	
	Arbroath ...	8 8	8	67	53.9	38.3	46.1	—	70	1st	27	16th	—	—	1.25	32	—	15	17th	10	6	2	0	0	0	0	—	—	—	—	—	
	Carnoustie ...	9 9	9	39	52.9	38.4	45.7	—	69	1st	27	16th	—	—	1.03	26	—	12	17th	9	7	0	0	1	0	1	—	6.90	—	49		
	Dundee E. Nec. ...	21 21	9	160	54.7	37.1	45.9	+1.8	70	30th	27	16th	—	—	1.04	26	—17	16	17th	7	5	0	0	0	0	0	—	—	—	—	—	
	„ Coll. Gons. ...	9 9	9	244	55.6	36.6	46.1	—	70	30th	25	15, 16	45.3	—	1.04	26	—	15	17th	6	5	2	1	2	0	0	17	0	6.77	—	48	
	Kettins ...	9 9	9	218	54.3	35.1	44.7	—	71	30th	24	16th	—	—	0.81	21	—	9	17th	6	5	2	0	0	0	0	20	0	—	—	—	
	Lednathie ...	9 9	9	720	—	—	—	—	—	—	—	—	—	—	1.29	33	—	15	17th	6	4	3	0	0	0	2	—	—	—	—	—	
	Montrose ...	17—9	9	16	52.0	36.7	44.4	—	69	1st	26	16th	—	—	1.43	36	—	12	17th	10	7	2	1	0	0	0	—	6.37	—	45		
Perth.	Crieff ...	21 21	9	478	53.8	36.1	45.0	+0.3	72	30th	25	16th	—	—	0.97	25	—31	14	16th	8	3	2	2	1	0	0	—	—	—	—	—	
	Perth ...	8 8	8	76	55.5	36.6	46.1	+1.6	73	30th	27	8, 9, 16	—	—	0.88	22	—23	12	17th	3	3	1	0	0	0	0	—	6.13	—	43		
Fife.	Cupar ...	9 9	9	210	54.3	36.8	45.6	—	69	30th	26	16th	—	—	0.96	24	—	15	17th	9	5	2	1	3	0	0	—	—	—	—	—	
	Kirkcaldy ...	9 9	9	66	53.6	38.0	45.8	—	67	30th	26	16th	—	—	0.78	20	—	6	17, 22	5	4	2	1	2	0	3	—	—	—	—	—	
Linlithgow, Edinburgh.	St. Andrews ...	17—9	9	20	53.4	37.0	45.2	—	68	1st	24	16th	45.1	44.2	1.05	27	—	9	16, 17	6	4	0	0	1	0	0	13	0	6.50	—	46	
	Bangour ...	21 21	9	587	50.9	35.3	43.1	—	67	30th	21	16th	—	—	0.90	23	—	9	17th	9	5	1	1	2	0	2	—	—	—	—	—	
	Dalkeith ...	9 9	9	190	54.8	37.7	46.3	—	67	30th	25	16th	—	—	0.62	16	—	8	17th	5	4	1	1	2	0	0	—	—	—	—	—	
	Blackford Hill ...	21 21	9	441	51.4	38.4	44.9	+1.1	62	12, 30	27	16th	—	—	0.61	15	—20	8	17th	8	5	2	1	0	0	0	9	0	5.93	+1.33	42	
	Liberton ...	9 9	9	190	53.3	38.7	46.0	—	64	12, 30	28	8, 16	—	—	0.57	14	—	12	17th	8	2	2	1	2	0	0	—	—	—	—	—	
	Edin. Univ. ...	9 9	9	227	53.2	40.3	46.8	—	65	30th	29	16th	45.0	44.9	0.71	18	—18	10	17th	8	5	—	—	—	—	—	—	—	—	—	—	
Haddington.	Leith ...	18—7	7	30	52.9	39.0	46.0	+0.6	66	30th	29	16th	—	—	0.72	18	—15	8	17th	8	4	4	0	2	0	1	9	1	—	—	—	
	Smeaton ...	9 9	9	100	54.0	37.73																										

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.		
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.			
				A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.	
																												Max.	Min.
		Max.	Min.	Rain.	ft.	°F	°F	°F	°F	°F	°F	°F	°F	in.	mm.	mm.	mm.									hr.	hr.	%
2. ENGLAND, N.E.																												
Northumberland.	Alnwick	9	9	9	181	53.1	37.5	45.3	+1.5	70	1st	25	8th	—	—	1.12	29	—17	7	17th	10	8	3	0	0	0	—	—
	Bellingham	9	9	9	848	52.7	34.0	43.4	—	68	30th	22	15, 16	—	—	0.75	19	—	6	13th	16	5	—	—	—	—	—	
	Cockle Park	21	21	9	324	52.8	36.4	44.6	+1.9	67	1st	24	16th	44.9	44.9	0.79	20	—25	8	24th	9	7	0	0	0	1	15	0
	Tynemouth	18	—7	7	118	51.5	40.3	45.9	+1.8	66	1st	28	15, 16	—	—	0.93	24	—12	6	24th	14	8	2	0	0	1	4	—
Durham.	Chopwellwood	9	9	9	445	52.7	33.0	42.9	—	68	12th	19	16th	—	—	1.38	35	—	11	18th	12	7	2	0	0	0	3	—
	Durham	21	21	9	336	54.3	36.2	45.3	+1.2	70	1st	24	8th	—	—	1.24	31	—9	8	24th	14	10	2	0	2	1	1	18
	Ushaw College	9	9	9	594	52.9	36.3	44.6	—	67	12th	23	16th	—	—	1.43	36	—	10	24th	15	8	2	0	0	1	0	—
York, N. Riding.	Ampleforth	9	9	9	348	53.9	38.2	46.1	+1.7	66	1st	28	15, 16	—	—	1.29	33	—14	6	13th	13	10	2	0	0	0	0	—
	Bridlington	21	21	9	57	51.8	38.5	45.2	—	66	2nd	28	15th	—	—	1.00	25	—	10	24th	10	7	0	0	3	0	0	—
	Rounton	20	20	8	249	54.1	36.1	45.1	+1.1	67	1st	25	16th	46.0	—	1.22	31	—13	6	24th	13	9	4	0	1	0	1	20
	Scarborough	17	—9	9	118	56.0	41.1	48.6	+3.6	67	1, 2	30	15, 16	—	—	47.5	1.11	28	—12	8	24th	12	7	0	0	0	0	—
	West Witton	9	9	9	605	54.7	37.6	46.2	—	71	1st	27	15th	44.8	43.6	1.01	26	—	5	13th	16	9	3	1	2	0	1	13
	Whitby	21	21	9	124	—	39.0	—	—	—	—	—	27	8th	—	—	0.85	22	—16	7	24th	10	5	2	0	3	0	—
York, E. Riding.	York	21	21	9	56	54.3	38.5	46.4	+0.4	68	1st	27	16th	46.5	45.8	1.28	33	—8	9	18th	14	13	4	0	0	0	0	—
Lincoln.	Howden	18	—7	7	21	55.5	35.8	45.7	—	68	30th	24	8, 15	46.5	45.8	1.18	30	—	7	13th	14	11	2	0	0	0	5	17
	Hull	21	21	9	8	55.9	39.2	47.6	+2.5	70	2nd	29	15th	45.9	45.8	1.02	26	—14	10	13th	13	6	5	0	2	1	0	13
	Spurn Head	18	—7	7	26	51.2	40.7	46.0	+1.2	62	1st	30	14, 15	—	—	0.75	19	—9	7	13th	9	4	1	0	0	0	2	—
	Cranwell	18	—7	7	237	55.1	37.3	46.2	—	67	2, 30	26	15th	47.1	46.5	0.98	25	—	5	17th	14	8	3	1	3	0	4	8
Lincoln.	Fulbeck	9	9	9	180	55.6	37.6	46.6	+0.4	69	30th	25	15th	—	—	0.85	22	—15	5	16th	18	7	—	—	—	—	—	
	Lincoln	9	9	9	58	56.5	39.4	48.0	+1.7	68	2, 30	28	15, 16	46.7	46.7	1.02	26	—9	8	13th	12	10	3	0	1	0	0	6
	Skegness	17	—9	9	12	51.7	40.5	46.1	+1.7	64	3, 13	28	15th	—	—	1.44	37	+3	12	13th	15	7	3	1	3	1	0	—
3. ENGLAND, E.																												
Norfolk.	Cromer	9	9	9	196	53.0	39.2	46.1	+0.8	70	3rd	30	16, 17	—	—	0.74	19	—12	8	13th	10	5	1	0	2	0	1	—
	Geldeston	9	9	9	37	55.7	37.2	46.5	+0.8	71	13th	29	15th	—	—	1.08	28	—9	9	13th	10	5	2	0	2	0	2	—
	L. Massingh'm	9	9	9	277	54.2	36.9	45.6	+0.2	66	2nd	28	15th	—	—	1.77	45	+4	11	23rd	16	9	2	0	1	0	0	—
	Norwich	9	9	9	93	56.2	39.4	47.8	+1.8	68	3, 13	31	15th	48.0	—	1.71	43	0	14	13th	11	8	2	0	2	1	3	8
Suffolk.	Yarmouth	18	—7	7	13	52.3	40.8	46.6	+1.7	69	13th	32	15, 16	48.6	48.3	1.19	30	—8	12	13th	10	5	4	0	4	0	3	0
	Bungay (Flixton)	8	8	8	79	57.2	37.9	47.6	—	69	13th	32	16, 18, 20	—	—	1.24	31	—	12	13th	11	10	1	0	0	0	1	10
	Felixstowe Aero	18	—7	7	15	54.7	40.4	47.6	—	68	30th	33	15, 19	—	—	1.02	26	—	10	13th	12	8	3	0	4	0	3	—
	Beach	17	—9	9	15	53.9	40.6	47.3	+1.5	70	12th	31	15th	—	—	1.12	29	—5	11	13th	11	7	3	0	2	0	2	—
Cambridge.	Copdock	9	9	9	104	56.6	38.4	47.5	—	69	13th	30	15th	48.7	47.6	1.30	33	—	11	13th	12	6	2	0	2	3	1	10
	Lowestoft	17	—9	9	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	Cambridge	20	20	8	41	57.8	37.1	47.5	+0.8	73	28th	28	5, 20	48.8	48.0	1.26	32	—3	11	13th	10	6	2	0	3	1	0	15
	Luton	8	8	8	390	55.7	36.2	46.0	—	71	28th	27	20th	47.9	47.7	1.03	26	—	9	13th	9	7	2	0	1	1	0	13
Bedford.	Woburn	8	8	8	291	56.5	37.3	46.9	+1.2	71	28th	28	15, 16	47.9	48.7	1.21	31	—7	9	13th	11	8	3	0	5	0	3	—
	Bennington	21	21	9	406	56.1	37.7	46.9	+0.9	70	28th	28	15, 16	47.7	47.7	1.50	38	—1	11	13th	11	9	6	2	2	0	2	13
	Berkhamsted	9	9	9	450	57.3	38.1	47.7	+1.7	70	28th	29	15, 16	—	—	1.61	41	—5	15	13th	9	8	3	1	2	1	0	18
	Hemel Hempstead	21	21	9	535	55.6	37.7	46.7	—	69	28th	28	15, 16	—	—	1.78	45	—	15	17th	9	7	—	—	—	—	—	—
Hertford.	Hitchin	8	8	8	297	57.4	37.2	47.3	—	71	28th	28	16th	47.3	46.8	1.03	26	—	10	13th	9	7	3	0	3	0	3	9
	Rothamsted	9	9	9	420	55.2	37.2	46.2	+0.5	70	28th	29	5, 15, 16	46.1	—	1.47	37	—4	12	13th	10	9	3	0	3	1	0	14
	Clacton-on-S.	18	—7	7	54	54.2	41.3	47.8	+2.2	69	13th	32	15, 20	48.7	48.7	1.22	31	—2	11	13th	11	8	2	0	2	1	0	6
	Chelmsford	9	9	9	134	58.1	38.3	48.2	—	71	13th	28	20th	—	—	1.53	39	—	12	13th	11	9	—	—	—	—	—	—
Essex.	Halstead	9	9	9	139	59.4	38.0	48.7	—	73	12th	28	20th	—	—	1.53	39	—	13	13th	10	5	4	1	1	1	0	—
	Ridgewell	9	9	9	269	57.0	38.1	47.6	—	70	27th	29	15th	—	—	1.61	41	—	12	13th	11	8	3	0	2	1	1	—
	Shoeburyness	18	—7	7	11	55.3	38.9	47.1	+0.2	69	13th	29	20th	—	—	1.17	30	+1	9	13th	9	8	2	0	4	2	3	8

TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
							Means of		Deviation from Normal.		Absolute Maximum and Minimum.						Total Fall.		Deviation from Normal.		Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Date.	Minimum.	Date.	1 ft.	4 ft.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER Number of days.										BRIGHT SUNSHINE.		
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
								Maximum.	Date.	Minimum.	Date.																						
																											A	B					
Max.	Min.	Max.	Min.	Mean of A and B.	Max.	Min.	Max.	Date.	Min.	Date.	1 ft.	4 ft.	Amount.	Date.	Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.							
7. ENGLAND, N.W.																																	
Cumberland.	Aspatria (Mealsgate)	21 21	9 487	52.4	36.9	44.7	—0.1	69	30th	26	16th	45.4	45.0	0.70	18	—38	8	13th	9	4	3	0	0	0	2	10	0	5.90	+0.73	42			
	Egremont	21 21	9 349	54.3	38.2	46.3	—	71	30th	28	16th	46.4	45.4	2.18	55	—	23	22nd	12	6	1	1	1	0	0	11	0	6.83	—	49			
Lancashire.	Keswick	9 9	9 254	54.8	37.6	46.2	—	70	30th	26	16th	45.8	45.2	1.35	34	—	14	13th	11	6	2	1	0	0	0	12	0	6.73	—	48			
	Newton Rigg	21 21	9 559	54.0	35.0	44.5	+0.6	67	28, 30	25	16th	—	—	1.02	26	—27	10	14th	11	7	1	1	1	0	0	16	0	6.37	+1.24	46			
	Scaleby	9 9	9 111	56.1	36.7	46.4	+1.2	72	30th	22	16th	—	—	1.04	26	—24	8	13th	9	8	0	0	0	0	1	0	—	—	—				
	Blackpool	17-9	9 66	54.2	39.0	46.6	+1.2	71	30th	32	16th	47.6	46.7	1.74	44	—4	16	13th	11	6	0	0	2	0	0	8	0	7.23	+1.40	52			
	Blundellsands	9 9	9 34	54.6	39.4	47.0	—	72	28th	30	16th	47.5	47.3	1.29	33	—	11	13th	10	7	2	1	1	0	0	15	0	—	—	—			
	Bolton	9 9	9 341	54.3	38.4	46.4	—	69	30th	27	16th	45.2	44.8	2.41	61	—	25	13th	14	8	3	1	1	0	0	7	0	5.00	—	36			
	Burnley	9 9	9 458	53.0	35.1	44.6	—	66	30th	22	16th	45.0	44.7	1.85	47	—	16	13th	14	8	—	—	—	—	—	14	—	5.93	—	43			
	Darwen	21 21	9 722	52.5	36.7	44.6	—	65	12th	27	15, 16	46.4	44.3	2.92	74	—	26	13th	13	10	4	1	3	2	0	24	0	5.80	—	42			
	Hutton	9 9	9 82	54.4	36.1	45.3	—	70	30th	24	16th	46.3	45.9	1.76	45	—	17	13th	10	8	2	0	0	0	2	13	1	6.60	—	47			
	Lancaster	9 9	9 311	55.4	38.8	47.1	—	73	30th	28	15, 16	46.9	47.7	1.69	43	—	14	16th	12	6	3	0	1	1	0	12	0	6.27	—	45			
Liverpool.	Leyland	9 9	9 124	54.6	35.8	45.2	—	69	28, 30	22	16th	—	—	1.66	42	—	13	13th	12	9	4	1	1	0	0	14	2	6.67	—	48			
	Morecambe	17-9	9 24	54.9	39.8	47.4	—	71	28, 30	28	16th	—	—	1.34	34	—	12	16th	11	4	0	0	0	0	0	0	0	7.13	—	51			
	Southport	17-9	9 37	54.0	39.2	46.6	+0.9	71	28th	30	16th	47.7	47.5	1.40	36	—11	15	13th	10	7	1	0	2	0	2	12	1	7.07	+1.40	51			
	Stonyhurst	9 9	9 375	52.9	38.5	45.7	+0.9	67	30th	28	16th	—	—	2.06	52	—17	24	13th	13	8	4	0	5	2	0	8	0	6.33	+1.33	45			
	Bidston	21 21	9 188	53.4	40.4	46.9	+0.6	70	28th	33	15th	—	—	0.92	23	—18	9	13th	9	8	2	0	2	1	1	6	0	6.67	—	48			
	Whitworth Pk.	21 21	9 125	55.4	39.0	47.2	+0.4	69	30th	29	16th	—	—	1.19	30	—19	15	13th	9	7	2	0	4	0	0	—	0	5.13	+1.23	37			
	Oldham Road	21 21	9 190	55.5	39.0	47.3	+0.2	72	30th	29	16th	45.7	46.7	1.43	36	—14	16	13th	11	6	3	0	3	0	0	—	0	5.33	+1.00	38			
	Alex. Park	18-7	7 99	55.4	36.8	46.1	—	69	28, 30	25	16th	—	—	1.15	29	—	13	13th	9	8	2	0	2	0	0	7	0	—	—	—			
	Cheshire.	Hawarden B'ge	9 9	9 22	54.6	38.2	46.4	—0.7	71	28th	29	20th	—	—	0.91	23	—10	9	13th	9	7	—	—	—	—	—	—	—	—	—	—		
		Hoylake	9 9	9 30	55.0	38.7	46.9	0.0	72	28th	33	8, 16, 18, 21	—	—	1.02	26	—15	11	13th	6	6	—	—	—	—	—	—	7.07	+1.64	51			
	Macclesfield	8 8	8 500	54.0	36.6	45.3	+0.3	67	12, 30	24	16th	—	—	1.77	45	—8	16	13th	11	8	—	—	—	—	—	—	—	—	—	—			
7. and 8. WALES.																																	
Flint.	Rhyl	17-9	9 30	53.2	—	—	—	71	28th	—	—	—	—	1.01	26	—11	14	13th	8	7	1	0	2	0	0	3	1	6.60	+0.73	47			
Anglesey.	Holyhead	18-7	7 15	53.2	41.8	47.5	+1.1	64	28th	34	16th	—	—	1.69	43	—10	14	16th	11	7	3	0	1	2	1	4	1	6.67	—	48			
	Colwyn Bay	17-9	9 81	53.3	39.8	46.6	—	69	28th	32	20th	—	—	1.24	31	—	18	13th	7	7	0	0	2	0	1	—	0	6.97	—	50			
Carnarvon.	Llandudno	17-9	9 22	52.9	40.4	46.7	—0.1	66	28, 29	33	20th	—	—	1.15	29	—17	16	13th	10	7	0	0	2	0	1	—	0	6.67	+0.90	48			
Merioneth.	Aberdovey	9 9	9 60	55.5	42.1	48.8	+0.9	70	28th	33	16th	—	—	1.42	36	—	11	13th	11	8	1	0	3	1	0	—	0	6.77	+1.17	49			
	Welshpool	8 8	8 262	—	—	—	—	—	—	—	—	—	—	0.75	19	—	5	16th	7	6	2	1	1	0	1	—	0	—	—	—			
Cardigan.	Aberystwyth	17-8	8 16	53.2	41.2	47.2	—	72	28th	33	19th	—	—	1.35	34	—	13	13th	10	7	1	0	2	0	0	—	0	6.90	+1.47	50			
	Haverfordwest	21 21	9 250	54.7	39.1	46.9	—	69	28th	30	20th	—	—	0.92	23	—	4	22nd	9	5	1	0	1	1	3	1	1	8.50	+1.80	62			
Pembroke.	St. Ann's Hd.	18-7	7 149	53.3	41.9	47.6	+1.3	67	30th	37	8, 9, 15, 16	—	—	1.04	27	—23	11	28th	7	6	0	0	1	1	2	—	0	8.27	+2.34	59			
Brecknock.	Tenby	9 9	9 64	56.3	40.9	48.6	—	69	30th	31	20th	—	—	1.04	26	—	9	22nd	10	8	3	1	4	2	0	11	0	8.17	+2.17	59			
	Gwernyfed Pk.	8 8	8 374	—	34.3	—	—	—	—	—	25	16th	—	—	0.85	22	—28	8	16th	9	5	3	1	4	0	2	—	—	—	—			
Radnor.	Rhayader	9 9	9 757	53.6	35.4	44.5	—	68	28th	23	20, 21	—	—	1.45	37	—	13	16th	11	7	3	2	3	2	1	16	1	6.77	—	49			
Glamorgan.	Cardiff	21 21	9 202	56.6	39.6	48.1	+1.5	70	28th	31	16, 26	48.8	47.9	0.73	19	—45	7	16th	6	6	0	0	2	1	0	13	0	7.67	—	56			
Monmouth.	Swansea	9 9	9 25	57.6	42.0	49.8	—	68	29th	31	16th	50.6	50.7	1.13	29	—	8	16th	9	7	1	1	3	1	0	4	0	7.70	—	56			
	Newport	8 8	8 32	58.6	41.2	49.9	—	70	28th	32	20th	49.2	47.9	0.59	15	—	7	16th	5	5	1	0	1	0	1	—	—	—	—	—			
8. ENGLAND, S.W.																																	
Somerset.	Bath	17-9	9 66	57.7	39.2	48.5	+1.5	72	28th	28	20th	49.8	49.0	0.86	22	—29	7	16th	11	5	2	0	3	3	0	—	0	6.77	+1.44	49			
	Long Ashton	9 9	9 162	57.6	38.9	48.3	—	72	28th	29	16, 20	49.3	—	1.03	26	—	12	16th	11	4	1	0	5	4	1	—	0	7.27	—	53			
	Weston s. Mare	17-9	9 29	56.7	41.2	49.0	+1.1	70	28, 30	32	20th	—	—	0.87	22	—25	9	16th	8	6	1	0	1	4	0	8	0	7.20	—	52			
Dorset.	Dorchester	8 8	8 314	56.9	37.5	47.2	—	70	28, 30	30	15, 19	—	—	0.96	24	—	10	16th	9	6	1	0	0	0	0	—	0	—	—	—			

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, APRIL, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.						Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.			
						A	B			Maximum.	Date.	Minimum.	Date.	Amount.	Date.			Daily Mean.	Deviation from Normal.										Per Cent.			
						Max.	Min.																							Max.	Min.	1 ft.	4 ft.
9. IRELAND, N.																																
Sligo.	Markree Castle	21 21	9 122	56.2	37.8	47.0	+1.3	69	30th	28 15 16 19	48.6	47.1	1.77	45	—22	10	16th	13	9	2	1	4	1	0	16	0	6.47	+1.50	46			
Mayo.	Blacksod Pt.	18—7	7 10	53.4	41.6	47.5	+0.8	68	29th	35 5.15	—	—	1.55	39	—35	12	20th	12	10	0	0	4	0	1	—	0	—	—	—			
Donegal.	Mallarany	9 9	9 120	56.2	40.9	48.6	—	68	29,30	31 16th	—	—	2.70	69	—	16	20th	14	12	0	0	3	1	0	7	0	—	—	—			
	Dunfanaghy	21 21	9 50	53.5	40.8	47.2	—	67	28,29	31 15th	—	—	1.89	48	—	8	16th	12	10	2	1	0	0	0	1	—	—	—	—			
	Malin Head	18—7	7 208	50.8	42.6	46.7	+1.4	57	26th	32 15,16	—	—	1.37	35	—15	8	16th	14	11	1	0	4	0	1	—	0	7.13	—	51			
Antrim.	Lisburn	7 7	7 206	55.3	35.6	45.5	—	69	30th	25 16th	—	—	1.51	38	—	9	25th	11	10	2	1	1	0	0	—	0	—	—	—			
Down.	Donaghadee	18—7	7 35	52.5	39.9	46.2	+0.5	59	28,30	30 16th	—	—	0.93	24	—27	6	13th	10	8	2	0	3	0	0	—	0	—	—	—			
Armagh.	Armagh	21 21	9 204	55.3	37.8	46.6	+1.0	68	30th	28 15th	47.5	46.6	0.90	23	—30	4	21st	12	7	3	2	4	0	1	15	0	6.97	+2.07	50			
Longford.	Newtownforbes	21 21	9 161	55.2	—	—	—	69	30th	—	47.4	46.3	1.12	29	—	6	20th	11	7	2	0	1	1	1	—	0	—	—	—			
10. IRELAND, S.																																
Dublin.	Baldonnell	18—7	7 289	54.0	37.7	45.9	—	63	28,30	28 16th	—	—	0.62	16	—	5	13th	9	5	2	0	3	2	5	12	0	6.50	—	47			
	City	21 21	9 54	54.1	41.3	47.7	+0.1	63	30th	31 16th	—	—	0.80	20	—28	6	17th	11	8	3	0	5	1	1	4	0	—	—	—			
	Glasnevin	21 21	9 55	54.8	37.9	46.4	+0.5	65	30th	28 16th	—	—	0.95	24	—25	8	17th	10	7	2	0	6	0	0	12	0	—	—	—			
	Phoenix Pk.	21 21	9 155	54.1	35.9	45.0	—0.2	63	30th	27 16th	—	—	0.87	22	—24	6	13th	11	7	2	0	4	1	0	8	0	7.07	+1.57	51			
	Trin. Coll.	21 21	9 12	54.1	40.6	47.4	+0.4	62	30th	30 16th	48.5	48.0	0.76	19	—28	6	17th	10	5	1	0	3	1	0	6	0	6.43	+1.53	46			
	Ranelagh	21 21	9 61	54.0	38.7	46.4	—	63	30th	30 16th	—	—	0.77	20	—	6	17th	9	6	2	0	4	1	0	13	0	—	—	—			
Wicklow.	Newcastle	21 21	9 256	54.3	39.3	46.8	—	65	28th	29 16th	—	—	0.89	23	—	8	17th	10	7	3	0	1	1	0	—	0	—	—	—			
King's Co.	Birr Castle	18—7	7 175	55.6	38.4	47.0	+0.9	69	30th	28 16th	47.9	47.3	0.79	20	—35	4	22nd	13	6	2	1	5	1	1	13	0	6.67	+1.54	48			
Queen's Co.	Mountmellick	9 9	9 252	55.1	38.1	46.6	—	69	28th	29 22nd	—	—	1.01	26	—	6	22nd	10	8	—	—	—	—	—	—	—	—	—	—			
Kilkenny.	Kilkenny	9 9	9 195	55.8	38.3	47.1	+0.5	69	30th	28 16,22	—	—	0.62	16	—39	4	21st	12	5	1	0	2	0	0	—	0	—	—	—			
Waterford.	Waterford	9 9	9 137	56.2	40.2	48.2	+0.7	70	30th	30 16th	—	—	0.41	11	—53	4	16th	7	4	—	—	—	—	—	—	—	—	—	—			
	Gortmore	21 21	9 16	56.1	38.5	47.3	—	70	30th	30 16th	—	—	0.47	12	—	5	16th	7	4	0	0	4	0	0	—	0	—	—	—			
	Seskin, Carrick-on-Suir.	21 21	9 542	55.4	38.4	46.9	—	69	30th	28 16th	—	—	0.49	13	—	4	16th	11	5	4	0	4	2	1	12	0	6.73	—	49			
Tipperary.	Cahir	9 9	9 199	55.8	38.3	47.1	+0.4	70	30th	28 16th	—	—	0.96	24	—	10	16th	10	3	—	—	—	—	—	—	—	—	—	—			
Limerick.	Foynes	9 9	9 50	56.4	41.4	48.9	+1.4	69	30th	34 16,19	—	—	0.90	23	—39	9	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Mungret	9 9	9 55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	College	9 9	9 55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Kerry.	Killarney	9 9	9 174	57.6	40.3	49.0	+1.4	74	30th	31 19th	—	—	0.93	24	—60	8	16th	12	8	—	—	—	—	—	—	—	—	—	—			
	Cahiriveen (Val. Obs.)	24 24	24 30	54.1	42.8	48.5	+0.5	66	30th	35 19th	—	—	1.21	31	—62	8	22nd	14	7	0	0	1	1	1	1	0	6.50	+1.17	47			
Cork.	Ballinacurra	9 9	9 24	54.9	38.8	46.9	—0.6	67	30th	29 16th	—	—	0.61	16	—50	6	16th	8	5	1	0	4	0	0	—	0	7.17	+1.57	52			
	Roche's Pt.	18—7	7 32	54.1	42.4	48.3	+0.7	62	29,30	32 16th	—	—	0.52	13	—55	5	16th	11	4	1	0	1	0	0	—	0	—	—	—			
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21	9 295	54.6	42.7	48.7	+0.2	63	30th	35 15,16	51.2	50.4	1.14	29	—27	8	16th	16	7	1	0	1	1	6	9	0	9.00	+2.63	66			
	Villa Carey	9 9	9 180	56.7	43.5	50.1	+0.9	65	28,30	34 20th	—	—	0.98	25	—28	8	16th	11	5	1	0	1	1	3	—	1	8.90	+2.53	65			
Jersey.	St. Aubins	18—7	7 25	56.2	42.9	49.6	+0.5	66	28th	33 16,20	—	—	1.07	27	—22	9	16th	11	8	1	0	2	0	4	—	0	8.17	+1.70	60			
Scilly.	St. Mary's	18—7	7 131	54.0	43.7	48.9	+0.3	64	29th	37 16th	—	—	0.97	25	—24	8	17th	10	7	0	0	2	0	4	—	0	7.23	+1.10	53			
Gibraltar	...	7 7	7 44	67.1	53.2	60.2	—1.1	74	24,30	48 1,10	—	—	2.94	75	—1	42	9th	5	4	0	0	0	2	0	0	—	—	—	—			
Malta	...	8 8	8 195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
APRIL, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	7.77	+1.70	56
Hove ..	7.90	—	57
Watergate ..	7.10	—	52
LONDON, Bunhill Row	5.90	+1.63	43
Regent's Park	6.27	—	45

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	55	45	48.9	+1.2

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Ross on Wye (10), Glasgow (17), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvred screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The Symbols ¶ placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of APRIL, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			Clear Sky.	Overcast.	Number of Observations adjusted to a total of 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, APRIL, 1921.

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MONTHLY WEATHER REPORT OF THE METEOROLOGICAL BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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VOL. 38, No. 5.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

Price 6d. Net, Post free, 7d.

MAY, 1921; FINE AND DRY.

THE weather was on the whole fine and dry over the greater part of the country, but unsettled in the extreme north-west. The features which have hitherto characterised the year 1921 were thus maintained. There was continuous fine weather in southern England from the 16th to the 25th.

At the beginning of the month there was a large anticyclone over Iceland and a depression over northern Scandinavia. The weather on the 1st was fine over the British Isles, and warm, except locally on the coast. Temperature was also high in Iceland. A cold northerly current then extended over the British Isles, reaching southern England late in the evening of the 2nd and continuing till the 4th. Cold showery weather was experienced, with snow in the north of Scotland and night frosts in places. Between the 5th and the 10th a deep depression skirted the north-west coast and caused unsettled but milder weather, with some rain, in all districts, though not in large amounts. This depression filled up near the Shetlands on the 10th, and another depression from the Atlantic filled up over England, after causing local thunderstorms on the 12th. The next depression appeared over Iceland and a well-marked secondary skirted the Hebrides on the 14th, causing unsettled weather generally. In southern England the weather was fine until the night of the 14th, when a small secondary brought rain. By the 16th a belt of high pressure was established from the Azores to the Baltic, which persisted till the 25th, causing a spell of brilliantly fine weather over southern England. On the 25th temperature exceeded 297 a at many stations. The northern and north-western districts were affected at times by depressions to the northward. On the 25th a secondary trough of low pressure developed over England and France, and thunderstorms were experienced in eastern England in a few places on the night of the 25th and more widely on the 26th. The secondary trough moved east and a cooler current extended over the country from the north-west. On the 25th and 26th there was a northerly gale and snow over Iceland, so that the cold current was drawn from far to the northward, resulting in low upper air temperatures and local hail and thunder over the British Isles. Between the 29th and 31st a deep depression moved north-eastward across the Hebrides, with strong south-west winds over the British Isles, gale force being reached at a few stations. There was heavy rain in the north-west, and smaller amounts elsewhere. On the 31st the depression moved away northward and filled up rapidly, the anticyclonic belt from the Azores to the Baltic becoming re-established on June 1st.

Sea-fog was experienced on the south-west coasts from the 11th to the 13th, and in the English Channel on the 13th and 14th. Otherwise visibility was good, a feature of the month being an unusually large number of observations of exceptional visibility.

In parts of the Continent there was more rain than in England. The cold current about the 3rd extended over a large area, accompanied by secondary depressions, and there was some rain in eastern France and Central Europe, as is usual when polar currents extend over those regions. Belfort had 54 mm. on the 2nd and 46 mm. on the 4th; while Posen had 60 mm. on the 5th. The total for the month at Belfort was 321 mm., most of the heavy falls probably being of thunderstorm type. Severe thunderstorms and destructive hail were experienced in southern France between the 18th and 25th, whilst the weather was fine over England. About the 25th temperature exceeded 300 a at many Continental stations, reaching 304 a on that date at Paris.

An exceptionally severe frost for so late in the season was experienced in many parts of Scotland, Eastern Ireland, and Northern England on the 5th, and even in the South some very wintry temperatures were registered. Ground frost was general in the London area, the grass minimum for this day being 269 a at Greenwich, 270 a at Kew Observatory and Kensington Palace, and 271 a at Croydon Aerodrome. In contrast with this cold interlude was the warm weather of the 25th, which very generally was the warmest day of the month. At Weymouth a temperature of 300 a was recorded and 299 a at Tumbidge Wells, but locally on the east coast, owing to a cold breeze from the north, the temperature was more than 11 a lower than this, and at Lowestoft, for instance, the maximum for this day was only 289 a although the sun shone continuously. Following this day of warmth a spell of cold weather set in towards the close of the month and under the influence of a wind current from beyond the Arctic Circle low temperatures became general and on the 27th in many northern localities the maximum barely exceeded 283 a, and at Eskdalemuir a minimum of 270 a was recorded, with 268 a on the ground. At Ilfracombe the maximum was only 285 a, and as far south as Ross-on-Wye there was frost on the ground at night.

In Scotland temperature was high on the 1st, but on the 2nd there was a sharp fall, with very cold weather for three or four days. At Nairn a maximum of 292 a on the 1st was followed by one of 280 a on the 2nd, and at Eskdalemuir and West Linton the shade minimum during the night 4th-5th was 267 a. A general recovery was fairly well maintained, with decidedly warm weather around the 25th, but colder thereafter. The distribution of rainfall in Scotland was irregular, but there was a well-defined excess towards the north-west, and a deficiency in most eastern coastal districts. Thus 154 mm. at Fort William (157 per cent. of the normal) compared with 33 mm. (56 per cent.) at Aberdeen. At Rothesay the fall on the 30th (34 mm.) was as much as the total at Aberdeen for the entire month. Wintry weather prevailed on the 3rd and 4th with snow, sleet, or hail somewhat widely,

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and at Balmoral on the morning of the 4th the snow lay to a depth of two inches.

The following notes by observers illustrate the general character of the month:—*Copdock (Ipswich)*.—Over the series of years covered by the observations at this station, May has proved to be the most dependable of the months in this locality, and has proved no exception this year. It has been a beautiful month in every sense of the word, the rainfall during the first few days and again at the end of the month redeeming what would otherwise have been a very serious drought. From the 9th to 25th inclusive a brilliant spell of weather yielded an abundant amount of sunshine, nearly 200 hours of the total occurring in that period. *Lenton Fields (Notts)*.—Owing to drought some leaves were falling off the trees at the end of the month, their tint was quite yellow as if it were autumn. *Tenbury (Worcester)*.—Night frosts on the 16th, 18th, 21st and 28th caused much damage to fruit and vegetables. *Southport (Lancs.)*.—An exceedingly fine month, very sunny, with sea-breezes almost every afternoon, and a marked deficiency of the northerly to easterly winds of Spring. A light rainfall, but well spread. Relative humidity decidedly below, and evaporation somewhat above, normal. Ground water level becoming low. *Sheepstor (Dartmoor)*.—From March 24th to May 5th this station escaped ground frost on three nights only. Potatoes severely cut down and red currants and gooseberries much damaged. The may and lilac had hardly any bloom except in sheltered places, the persistent frosts having destroyed the first shoots. *Dublin (Fitzwilliam Square)*.—In general terms the month may be described as favourable. It opened and closed with cold spells of some intensity. In the middle and second third of the month, on the other hand, quiet dry, bright, and warm weather prevailed, insolation being particularly powerful.

Air Pressure. As shown by the map on p. 59 the mean monthly trend of the isopleths was of a normal type, but the mean pressure was lower than usual and the gradient from the English Midlands northwards was steeper. At the telegraphic reporting stations the departures from the normal varied from -4.5 mb. at Wick to -0.5 mb. at Yarmouth and St. Ann's Head. The shape of the isobars indicates a tendency to high pressure round the coast and to lower pressure inland. The highest reading recorded during the month was 1032 mb. at Renfrew on the 1st and the lowest 983 mb. at the same station on the 30th.

Temperature. Except in Ireland North which was 0.2 a below the normal and in Ireland South which was normal, the mean temperature for the month was above the normal in all Districts. The excess ranged from 1.6 a in England North-east to 0.1 a in Scotland West.

Precipitation. Except in Scotland West which was normal and in Scotland North, where there was an excess of 12 mm., the total precipitation for the month was below the normal, the deficiency ranging from 19 mm. in England east to 6 mm. in Scotland East and in England South-west. (See Table I, p. 58). Less than 25 mm. fell during the month over part of the east coast and as much as 50 mm. fell only extremely locally in any part of the east. The fall over the rainy areas of Wales was nearly everywhere below 100 mm., but more than 150 mm. fell in the central Lake District and over much of the West Highlands. In Ireland the fall was more moderate, varying from rather more than 100 mm. to rather less than 50 mm. in the east. May was the fourth successive month with a general rainfall below the normal in England. The area which experienced a defective fall in each of the four months comprised a very broad belt of country extending from Devonshire and Sussex in the south, across England to Haddingtonshire. At Totland Bay (Isle of Wight) the total fall was lower than in any previous four spring months except during the great spring drought of 1893. The general rainfall (see map, p. 60) expressed as a percentage of the normal was:—England and Wales, 79; Scotland, 108; Ireland, 90; and the British Isles as a whole, 91.

Sunshine. In Ireland north the mean daily amount of sunshine was 0.59 hr. below the normal, and in Ireland south there was a deficiency of 0.93 hr. In all other Districts there was an excess which ranged from 1.57 hour per day in England north-east to 0.28 hr. in the English Channel. The daily mean in Scotland North was only 5.90 hr. compared with 8.06 hr. in the latter District. At Aberdeen, where the mean was 7.52 hr., it was the sunniest May since 1882.

The mean temperature for the Spring season (13 weeks from February 27th) was above the normal in all parts of the British Isles. In each of the three Eastern Districts of England 10 weeks out of the 13 have been classed as unusually warm for the time of year. Rainfall for the same period was decidedly less than the normal except in Scotland North and West. The sunshine was in excess of the normal in all Districts except Ireland South.

Aurora was seen on the 13th at numerous stations and as far south as Okehampton (Devon); on the 15th at Aberdeen and Durham; on the 17th at Eskdalemuir; on the 20th at Aberdeen; and on the 31st at Tenbury.

Halo observations were numerous during the month and a sun pillar was seen at Bexley Heath on the 3rd.

Note. The article by Captain C. K. M. Douglas in the Meteorological Magazine for June has been utilised in the preparation of these notes.

70
60
50
40
30
20
10
-290
-280
-270
-260

Temperature
Scales.

TABLE I.—DISTRICT VALUES—MAY, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL			
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est	Date.	Low- est	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	72	28	200+ 85.4	200+ 78.1	200+ 81.8	+0.2	83.8	-0.2	—	3.28	83	+ 12	21	5.90	+0.54	35	7.2	7.2	7.2	1031	1	984	31	
Eastern.																								
1. SCOTLAND, EAST ...	75	22	87.3	77.7	82.5	+0.5	83.8	+0.4	81.6	+0.3	2.02	51	— 6	19	6.98	+1.22	43	6.3	6.2	6.7	1031	1	986	31
2. ENGLAND, N.E. ...	78	25	89.3	79.3	84.3	+1.6	84.7	+0.9	82.8	+0.8	1.66	42	— 7	14	7.67	+1.57	48	5.0	6.3	6.2	1031	23	993	30
3. ENGLAND, EAST ...	78	29	89.8	80.1	84.9	+1.2	86.1	+0.7	84.2	+0.7	1.08	27	— 19	13	7.98	+1.33	51	5.6	5.4	5.2	1028	21	999	8
4. MIDLAND COUNTIES ...	79	26	90.1	78.9	84.5	+0.9	85.3	+1.1	83.1	+0.9	1.47	37	— 16	15	7.27	+1.40	46	5.5	6.5	5.1	1028	21	995	8
5. ENGLAND, S.E. ...	80	27	90.0	80.4	85.2	+1.0	86.2	+0.8	84.1	+0.9	1.27	32	— 13	13	7.59	+0.69	49	5.7	6.1	5.4	1028	21	996	8
Western.																								
6. SCOTLAND, WEST ...	73	22	86.9	78.8	82.9	+0.1	84.4	0.0	82.2	+0.2	2.91	74	0	19	—	—	—	7.2	7.9	6.5	1032	1	983	30
7. ENGLAND, N.W. ...	79	25	87.7	79.6	83.7	+0.4	84.9	+0.6	82.9	+0.7	1.90	48	— 10	16	7.57	+1.30	48	6.5	6.3	6.0	1029	1	992	30
8. ENGLAND, S.W. ...	83	29	88.8	80.2	84.5	+0.6	86.9	+0.9	84.7	+0.7	2.01	51	— 6	16	7.58	+1.00	49	5.4	5.3	4.9	1028	121	995	8
9. IRELAND, NORTH ...	73	25	86.6	79.2	82.9	-0.2	84.6	0.0	82.9	+0.4	2.22	56	— 7	21	5.29	-0.59	33	6.8	6.4	6.1	1031	1	986	8, 30
10. IRELAND, SOUTH ...	75	27	88.0	79.7	83.9	0.0	85.0	+0.3	83.7	+0.4	2.11	54	— 11	20	5.54	-0.93	35	6.8	7.7	6.5	1031	1	991	8
11. ENGLISH CHANNEL ...	74	38	88.5	82.3	85.4	+0.7	86.8	+0.7	85.4	+1.2	1.37	35	— 13	14	8.06	+0.28	53	5.7	5.2	4.4	1027	1	996	8
Mean: DISTRICTS 1-10..	83	22	88.5	79.4	83.9	+0.6	85.2	+0.6	83.2	+0.6	1.87	47	— 10	17	7.05	+0.78	45	6.1	6.4	5.9	1032	—	983	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—MAY, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.					
ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.	
0. SCOTLAND, N.																			
Deerness (Cup Anr.) ...	188	16	5	—	0	11	38	331	332	43	0	260	14	22	9	—	—	—	
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	0	0	9	373	194	168	220	8	31	3	19	31	3 35	
†Aberdeen (Cup Anr.) ...	120	72	12	—	0	0	0	81	554	109	0	220	9	14	13	—	—	—	
Balmakewan ...	140	25	18	—	0	1	1	144	376	223	0	10	11	2	15	16	30	23 40	
Rosyth ...	85	73	19	—	0	3	7	245	355	137	0	210	15	30	23	24	30	22 20	
Edinburgh ...	485	39	31	—	0	1	6	219	422	97	0	160	13	30	1	22	30	0 25	
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	0	3	15	235	277	217	0	200	14	31	2	23	30	21 10	
Paisley... ..	188	81	15	—	0	0	0	174	445	125	0	260	11	20	3	31	30	21 40	
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	0	0	0	22	377	345	0	360	8	2	16	15	29	23 35	
South Shields ...	72	61	12	—	0	0	0	115	392	237	0	250	10	31	9	19	31	0 35	
Spurn Head ...	66	40	†	—	Instrument	dismounted.	2	7	246	380	109	2	200	12	30	23	17	30	22 40
Cranwell ...	278	43	31	—	0	1	2	119	247	375	1	{ 210 } { 220 }	11	31	{ 9 } { 11 }	17	31	11 5	
Howden ...	59	40	30	—	0	1	2	119	247	375	1	{ 210 } { 220 }	11	31	{ 9 } { 11 }	17	31	11 5	
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	0	8	52	293	346	43	10	200	15	8	13	20	8	12 35	
Felixstowe ...	51	30	18	—	0	2	23	217	439	58	7	180	13	30	9	18	30	9 35	
Shoeburyness ...	103	90	†	—	0	2	9	148	341	246	0	200	12	30	22	17	8	11 25	
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	0	0	158	374	199	13	{ 200 } { 230 }	10	{ 6 } { 30 }	{ 12 } { 16 }	16	6	11 50	
5. ENGLAND, S.E.																			
Calshot ...	55	45	31	—	0	5	26	290	413	14	1	—	14	30	6	20	30	21 35	
Brighton ...	261	53	6	—	0	1	3	196	435	110	0	—	11	30	8	18	30	7 10	
Larkhill (S'y Plain) ...	513	43	†	—	0	2	15	304	397	21	7	210	13	30	21	17	30	20 50	
Richmond (Kew Obs.) ...	82	65	22	—	0	0	0	97	452	195	10	210	10	8	11	16	8	11 0	
Isle of Grain ...	46	45	30	—	0	4	15	229	314	185	1	60	13	23	12	16	3	4 35	
7. ENGLAND, N.W.																			
Fleetwood (Cup. Anr.) ...	109	44	—	—	0	7	25	228	412	56	23	210	15	31	2	—	—	—	
Southport ...	80	62	48	—	0	4	21	283	404	36	0	240	15	31	10	23	31	2 5	
Holyhead ...	60	40	†	—	0	5	29	391	271	53	0	210	15	31	1	23	30	18 45	
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	29, 30	6	14	121	391	156	11	59	—	20	30	18	27	30	18 10	
Plymouth ...	185	88	2	—	0	6	29	203	407	105	0	—	17	30	3	20	30	2 50	
Lyme Regis ..	556	61	†	—	0	0	0	102	467	175	0	—	10	30	3	15	30	2 35	
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	31	1	9	19	321	333	70	0	220	18	31	1	—	—	—	
Quilty ...	100	40	†	—	0	12	66	450	198	30	0	—	16	30	19	22	30	19 15	
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	5	16	348	306	74	0	180	12	29	13	20	10	11 20	
Weaver Pt. ...	160	30	†	—	0	8	35	306	385	18	0	—	15	30	15	24	30	20 20	
11. ENGLISH CHANNEL.																			
Scilly ...	150	32	†	—	0	4	6	193	410	132	3	140	12	10	23	18	10	21 45	

† Tube anemograph out of action since Feb. 5th, 1920.

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.B.]

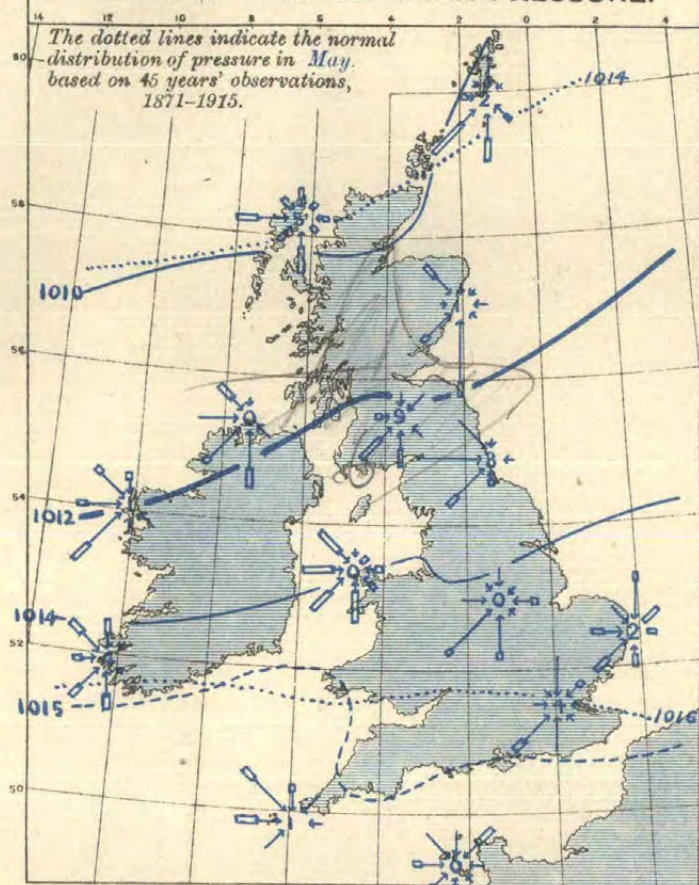
* Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

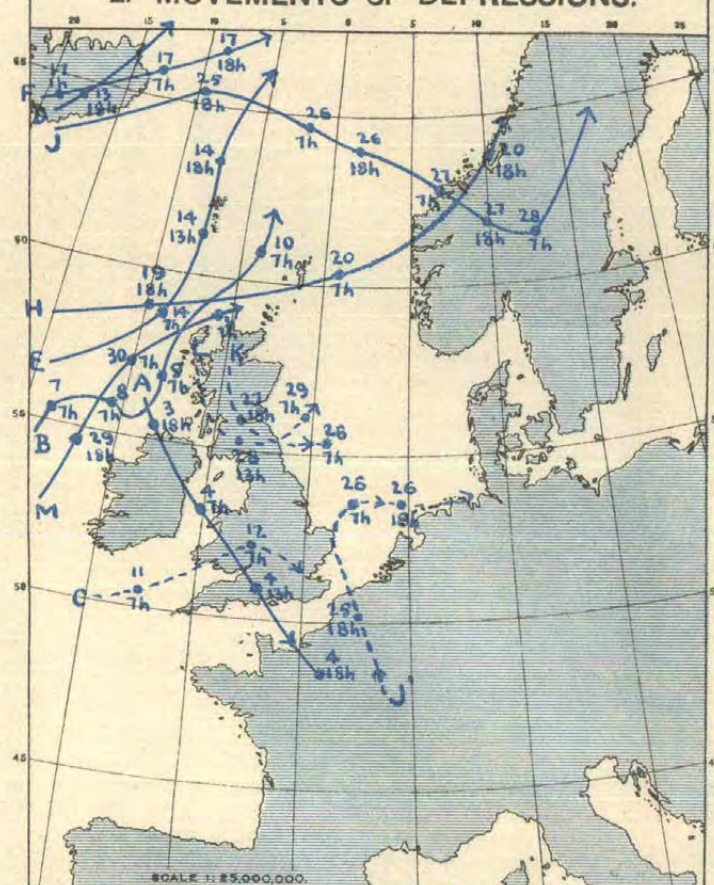
1. WIND AT 7 A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in May based on 45 years' observations, 1871-1915.



WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT MODERATE GALE TO STRONG GALE
 30 OBS. 1 inch

2. MOVEMENTS OF DEPRESSIONS.

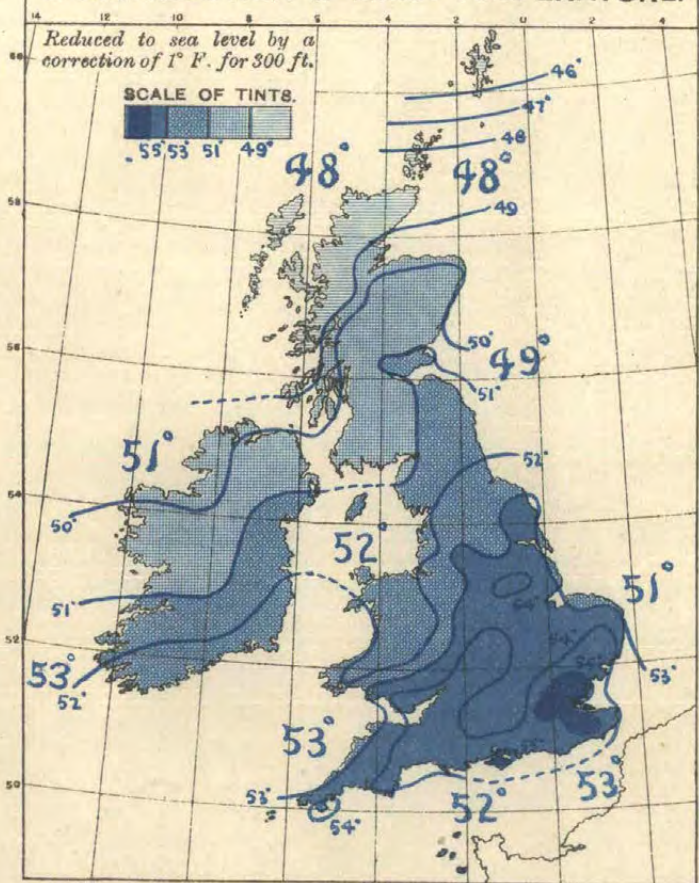


Broken lines show approximate tracks of secondary depressions

3. DISTRIBUTION OF MEAN TEMPERATURE.

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

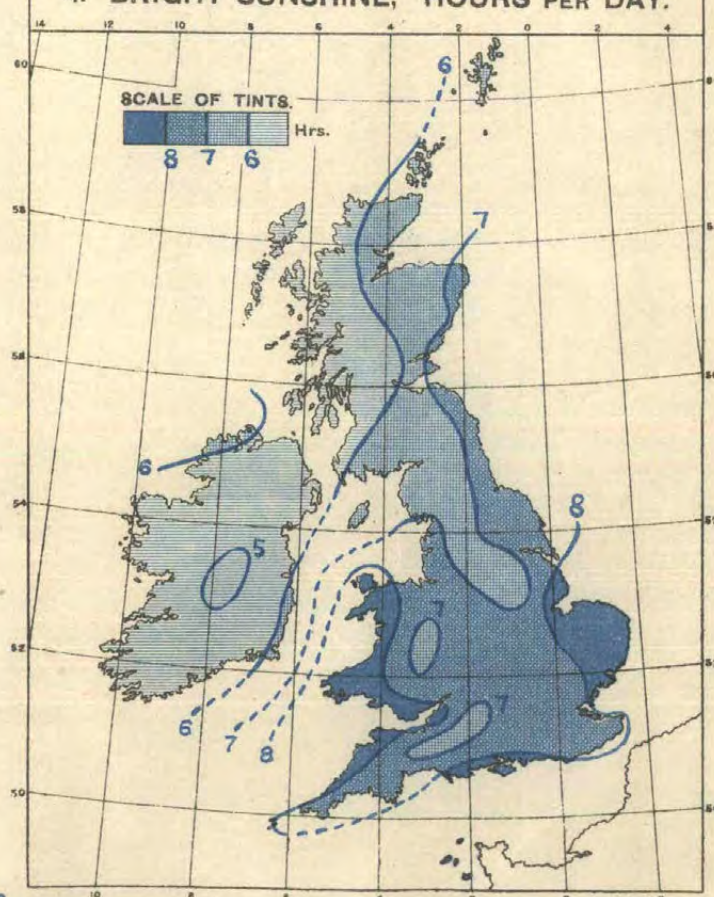
SCALE OF TINTS.



Sea temperatures are shown in large figures, thus: 49°

4. BRIGHT SUNSHINE, HOURS PER DAY.

SCALE OF TINTS.



MAY, 1921.
RAINFALL.

SCALE OF TINTS.

1 : 5,000,000.

Ps. 3672/358. Wt. 37. D. 617/P 147. 1350. 6/21.

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

TABLE III.—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
									Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
												Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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Shetlands.			Baltasound	...	9	9	9	31	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
								Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 min. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
											A	B	Mean of A and B.	Maximum.														Date.	Minimum.	Date.	1 ft.	4 ft.	Amount.	Date.	Precipitation.	Snow.	Thunder.	Fog.	Ground.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
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TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.			WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Deviation from Normal.			Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
					A	B		Maximum.	Date.	Minimum.					Date.	Amount.									Date.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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4. MIDLAND COUNTIES—cont.				ft.	°F.	°F.	°F.	°F.	°F.	°F.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 min. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
									Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.				
						Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	°F	°F			°F	°F	°F	°F	1 ft.	4 ft.	in.	mm.	mm.	mm.	14th	16	14	0	0	0	0
7. ENGLAND, N.W.																																
Cumberland.	Aspatria (Mealsgate)	21 21	9 487	56.5	41.7	49.1	—0.9	69	25th	27	5th	50.5	48.6	2.01	51	—12	7	14th	16	14	0	0	0	0	0	0	3	0	7.29	—	1.19	46
	Egremont	21 21	9 349	57.4	43.3	50.4	—	69	1, 25	30	3, 5	54.8	49.4	4.00	102	—	25	3rd	19	13	1	0	0	0	0	0	2	0	6.68	—	—	42
	Keswick	9 9	9 254	58.8	42.9	50.9	—	72	25th	28	5th	52.9	48.3	3.34	85	—	17	30th	21	18	1	0	0	0	0	0	5	0	—	—	—	—
	Newton Rigg	21 21	9 559	59.0	40.1	49.6	0.0	71	25th	25	5th	—	—	1.74	44	—17	8	31st	17	10	0	0	0	0	0	0	4	0	6.74	—	0.48	42
	Scaleby	9 9	9 111	61.1	41.2	51.2	+0.6	73	1, 25	26	5th	—	—	1.90	48	—13	12	6th	17	12	0	0	0	0	0	0	—	—	—	—	—	—
Lancashire.	Blackpool	17—9	9 66	58.1	44.7	51.4	+0.7	68	25th	31	5th	53.0	49.7	1.71	43	—12	6	5th	18	13	1	0	2	1	0	2	1	7.84	—	0.71	49	
	Blundellsands	9 9	9 34	58.9	45.7	52.3	—	73	25th	32	3, 5	53.9	51.1	2.46	62	—	15	26th	19	16	0	0	1	1	1	3	0	—	—	—	—	
	Bolton	9 9	9 341	60.8	43.2	52.0	—	75	25th	30	5th	52.7	48.9	2.84	72	—	10	29th	17	14	0	0	0	0	0	1	0	6.03	—	—	38	
	Burnley	9 9	9 458	59.2	41.1	50.2	—	74	25th	26	5th	52.2	48.0	2.55	65	—	8	28th	18	15	0	0	0	0	0	2	—	6.32	—	—	40	
	Darwen	21 21	9 722	59.3	42.0	50.7	—	74	25th	30	5th	53.6	48.3	3.69	94	—	16	28th	15	15	1	0	2	1	0	11	0	5.90	—	—	37	
	Hutton	9 9	9 82	59.5	42.0	50.8	—	72	25th	27	5th	53.3	49.4	1.85	47	—	7	27, 28	14	13	0	0	0	0	1	2	0	7.13	—	—	45	
	Lancaster	9 9	9 311	59.1	44.2	51.7	—	72	1st	31	3rd	53.2	52.3	3.43	87	—	19	8th	16	13	0	0	1	1	0	2	0	6.81	—	—	43	
	Leyland	9 9	9 124	59.0	42.0	50.5	—	72	25th	26	5th	—	—	2.20	56	—	9	28th	15	14	0	0	2	2	0	2	0	7.03	—	—	44	
	Morecambe	17—9	9 24	58.9	45.1	52.0	—	71	1st	32	5th	—	—	2.28	58	—	11	8th	14	11	0	0	0	0	0	—	—	8.29	—	—	52	
	Southport	17—9	9 37	58.1	44.6	51.4	+0.1	70	25th	31	5th	56.0	52.9	1.45	37	—16	8	14th	16	11	0	0	1	1	0	2	0	8.13	—	1.19	51	
	Stonyhurst	9 9	9 375	59.3	43.7	51.5	+1.0	72	25th	30	5th	—	—	3.11	79	+7	11	2nd	15	14	0	0	0	2	0	2	0	6.74	—	0.71	42	
Liverpool.	Bidston	21 21	9 188	57.9	45.1	51.5	—0.3	72	25th	35	3, 4	—	—	1.80	46	—2	9	26th	15	9	1	0	1	3	2	2	0	7.39	—	—	47	
	Whitworth Pk.	21 21	9 125	61.8	44.5	53.2	+0.6	79	25th	30	5th	—	—	1.92	49	—5	10	28th	17	14	0	0	0	3	0	—	—	5.87	—	0.87	37	
	Oldham Road	21 21	9 190	61.5	45.7	53.6	+0.3	78	25th	34	5th	54.3	51.3	2.52	64	+2	12	12th	18	14	0	0	0	2	0	0	0	5.97	—	0.84	38	
	Alex. Park	18—7	7 99	60.8	41.7	51.3	—	76	25th	28	5th	—	—	1.98	50	—	11	28th	17	14	0	0	0	0	1	2	5	0	—	—	—	—
Cheshire.	Hawarden B'ge	9 9	9 22	59.8	43.9	51.9	—0.5	74	25th	35	3, 5	—	—	1.41	36	—10	9	14th	14	10	—	—	—	—	—	—	—	—	—	—	—	—
	Hoylake	9 9	9 30	60.9	44.4	52.7	+0.5	75	25th	33	5th	—	—	1.98	50	+2	10	26th	13	12	—	—	—	—	—	—	—	7.84	—	1.49	50	
Macclesfield		8 8	8 500	60.2	41.3	50.8	+0.5	77	25th	28	5th	—	—	2.04	52	—8	7	6th	17	14	—	—	—	—	—	—	—	—	—	—	—	—
7a and 8b WALES.																																
Flint.	Rhyl	17—9	9 30	58.0	43.5	50.8	—0.4	67	24th	32	3rd	—	—	1.30	33	—9	8	26th	14	10	0	0	0	0	0	1	0	7.71	—	0.61	49	
	Holyhead	18—7	7 15	56.6	46.1	51.4	+0.6	68	25th	38	4th	—	—	2.11	54	+4	11	14th	22	9	0	0	0	1	4	2	1	8.35	—	—	53	
	Colwyn Bay	17—9	9 81	58.0	45.5	51.8	—	66	25th	38	3, 4, 5	—	—	1.75	44	—	12	28th	11	11	0	0	0	0	0	—	—	8.03	—	—	51	
Carnarvon.	Llandudno	17—9	9 22	57.5	45.2	51.4	—0.4	67	25th	36	1, 5	—	—	1.41	36	—12	9	28th	14	12	0	0	0	0	0	—	—	8.00	—	1.06	51	
Merioneth.	Aberdovey	9 9	9 60	59.0	47.4	53.2	+0.1	71	22nd	38	4th	—	—	1.91	49	—	9	14th	15	12	0	0	1	0	0	—	—	8.42	—	1.87	54	
	Welshpool	8 8	8 262	62.0	39.7	50.9	—	77	25th	29	5th	—	—	1.91	49	—	19	27th	11	11	0	0	1	0	0	—	—	—	—	—	—	—
Montgomery.																																
Cardigan.	Aberystwyth	17—8	8 16	56.7	45.7	51.2	—	70	23rd	38	4, 5	—	—	1.76	45	—	11	3rd	16	11	0	0	0	0	0	—	—	8.68	—	2.39	55	
	Haverfordwest	21 21	9 250	57.7	43.9	50.8	—	69	25th	35	5th	—	—	2.32	59	—4	17	29th	16	9	0	0	0	0	6	—	—	8.61	—	1.67	55	
	St. Ann's Hd.	18—7	7 149	56.2	46.9	51.6	+0.9	69	25th	40	5th	—	—	1.74	44	—5	10	29th	18	10	0	0	0	0	7	—	—	8.81	—	1.84	56	
Brecknock.	Tenby	9 9	9 64	60.2	44.8	52.5	—	73	25th	36	18th	—	—	1.91	49	—	13	29th	15	11	0	0	0	0	0	4	0	8.29	—	1.13	53	
	Gwernyfed Pk.	8 8	8 374	62.4	38.7	50.6	—0.7	78	25th	29	5th	—	—	0.71	18	—34	3	14th	16	9	0	0	1	2	0	—	—	—	—	—	—	—
	Rhayader	9 9	9 757	58.4	39.8	49.1	—	72	25th	31	19th	—	—	1.65	42	—	6	29th	18	14	2	0	0	0	0	17	0	6.84	—	—	44	
Glamorgan.	Cardiff	21 21	9 202	61.8	44.8	53.3	+1.0	78	25th	34	5th	56.4	51.8	2.02	51	—11	13	7th	13	11	0	0	0	0	0	9	0	8.35	—	—	54	
	Swansea	9 9	9 25	61.4	46.8	54.1	—	76	25th	38	5th	57.7	54.0	1.85	47	—	10	5th	19	13	0	0	1	0	0	2	0	8.16	—	—	53	
Monmouth.	Newport	8 8	8 32	64.2	46.2	55.2	—	79	25th	37	5th	55.4	51.2	2.03	52	—	10	7th	14	12	0	0	1	1	0	—	—	—	—	—	—	—
8b. ENGLAND, S.W.																																
Somerset.	Bath	17—9	9 66	63.6	44.5	54.1	+1.1	78	25th	31	5th	56.9	53.3	2.05	52	+4	11	7th	14	10	0	0	2	2	0</							

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS, MAY, 1921.

DISTRICT, COUNTY AND PLACE		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 min. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
									Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.				
						A	B	Mean of A and B.					1 ft.			4 ft.																
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Deviation from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Amount.	Date.	Precipitation. 1 min. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.						
9. IRELAND, N.																																
Sligo.	Markree Castle	21 21	9 122	57.1	40.5	48.8	-1.5	68	23rd	25	5th	53.3	50.1	3.12	79	+ 9	13	8th	20	17	0	0	5	0	3	10	0	5.48	-0.39	34		
Mayo.	Blacksod Pt.	18-7	7 10	54.4	45.4	49.9	-1.0	61	23rd	37	4th	—	—	2.39	61	-11	10	7th	25	17	0	0	0	0	0	—	0	—	—	—		
	Mallarany	9 9	9 120	56.4	44.7	50.6	—	68	1st	34	5th	—	—	3.85	98	—	14	30th	21	18	0	0	2	0	0	4	0	5.65	—	36		
Donegal.	Dunfanaghy	21 21	9 50	54.7	43.6	49.2	—	66	21st	32	5th	—	—	2.00	51	—	7	3rd	22	19	1	0	1	0	0	—	0	—	—	—		
	Malin Head	18-7	7 208	53.6	45.2	49.4	-0.2	64	21st	35	4th	—	—	1.76	45	-5	7	8th	25	14	0	0	1	0	0	—	0	6.42	—	40		
Antrim.	Lisburn	7 7	7 206	60.1	39.8	50.0	—	73	25th	27	5th	—	—	2.39	61	—	15	30th	21	14	0	0	0	0	0	—	0	—	—	—		
Down.	Donaghadee	18-7	7 35	57.4	43.7	50.6	+0.5	71	25th	35	5th	—	—	1.90	48	-10	13	30th	21	14	0	0	0	0	0	—	0	—	—	—		
Armagh.	Armagh	21 21	9 204	58.5	42.0	50.3	-0.4	71	24th	29	5th	52.9	50.0	2.06	52	-9	11	8,30	21	14	0	0	2	0	1	4	0	5.10	-0.74	32		
Longford.	Newtownforbes	21 21	9 161	58.2	41.1	49.7	—	69	1,23,24	26	5th	52.3	49.7	2.15	55	—	17	25th	18	14	0	0	0	0	1	—	0	—	—	—		
10. IRELAND, S.																																
Dublin.	Baldonnell	18-7	7 282	59.4	42.1	50.8	—	72	24,25	27	5th	—	—	2.83	72	—	12	10th	22	16	0	0	2	0	2	5	0	5.45	—	34		
	City	21 21	9 54	59.2	45.8	52.5	-0.1	69	25th	35	5th	—	—	1.53	39	-13	6	8th	22	14	0	0	3	0	0	1	2	—	—	—		
	Glasnevin	21 21	9 55	59.8	42.9	51.4	+0.8	72	25th	31	5th	—	—	1.88	48	-5	7	5,8	23	14	0	0	2	0	0	2	0	—	—	—		
	Phoenix Pk.	21 21	9 155	59.4	40.9	50.2	+0.3	71	25th	28	5th	—	—	3.24	82	+29	29	10th	22	17	0	0	0	0	0	5	1	6.19	-0.42	39		
	Trin. Coll.	21 21	9 12	58.8	45.0	51.9	+0.1	66	21,25	35	5th	54.2	51.6	1.56	40	-9	8	8th	19	11	0	0	0	0	0	0	0	5.35	-0.88	34		
	Ranelagh	21 21	9 61	59.7	43.9	51.8	—	70	21,25	32	5th	—	—	1.34	34	—	7	25th	20	13	0	0	2	0	0	3	1	—	—	—		
Wicklow.	Newcastle	21 21	9 256	59.1	43.6	51.4	—	72	25th	34	5th	—	—	2.76	70	—	14	29th	16	13	—	—	—	—	—	—	—	—	—	—		
King's Co.	Birr Castle	18-7	7 175	58.1	42.1	50.1	-1.2	70	23,24	28	5th	53.0	50.7	2.01	51	-6	16	30th	19	13	0	0	0	0	1	8	0	4.87	-1.00	31		
Queen's Co.	Mountmellick	9 9	9 252	59.5	42.5	51.0	—	74	24th	29	5th	—	—	2.34	59	—	11	30th	18	14	—	—	—	—	—	—	—	—	—	—		
Kilkenny.	Kilkenny	9 9	9 195	60.5	42.1	51.3	-0.4	75	24th	30	5th	—	—	1.93	49	-7	11	7th	18	12	0	0	0	0	0	—	0	—	—	—		
Waterford.	Waterford	9 9	9 137	59.7	43.5	51.6	-0.8	72	24th	34	5th	—	—	1.92	49	-9	17	10th	15	11	—	—	—	—	—	—	—	—	—	—		
	Gortmore	21 21	9 16	60.1	43.6	51.9	—	73	24th	35	29th	—	—	2.27	58	—	13	10th	16	15	—	—	—	—	—	—	—	—	—	—		
	Training Col.	21 21	9 542	59.4	42.5	51.0	—	75	24th	33	5th	—	—	2.19	56	—	18	10th	19	12	0	0	1	0	1	6	0	5.81	—	37		
	Seskin, Carrick-on-Suir.	21 21	9 542	59.4	42.5	51.0	—	75	24th	33	5th	—	—	2.19	56	—	18	10th	19	12	0	0	1	0	1	6	0	5.81	—	37		
Tipperary.	Cahir	9 9	9 199	59.8	41.6	50.7	-0.9	73	24th	34	18th	—	—	2.33	59	—	8	5th	20	15	—	—	—	—	—	—	—	—	—	—		
Limerick.	Foynes	9 9	9 50	58.9	44.5	51.7	-0.7	70	23rd	34	5th	—	—	2.05	52	-7	19	30th	20	11	—	—	—	—	—	—	—	—	—	—		
	Mungret	9 9	9 55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	College	9 9	9 174	60.4	44.3	52.4	+0.1	74	1,24	33	5th	—	—	2.27	58	-20	12	30th	20	14	—	—	—	—	—	—	—	—	—	—		
Kerry.	Killarney	24 24	24 30	56.1	46.8	51.5	-0.7	64	23rd	37	5th	—	—	3.07	78	-3	13	29th	23	19	0	0	0	0	1	0	0	5.29	-1.26	34		
	Cahiriveen (Val. Obs.)	9 9	9 24	59.2	42.3	50.8	-1.4	70	1,24	30	5th	—	—	1.64	42	-18	14	10th	16	10	0	0	2	0	0	—	2	5.81	-0.87	37		
Cork.	Ballinacurra	18-7	7 32	58.2	46.1	52.2	+0.2	71	1st	37	5th	—	—	1.91	49	-13	12	10th	21	12	0	0	2	0	3	—	0	—	—	—		
	Roche's Pt.	9 9	9 195	60.5	42.5	51.0	—	74	24th	29	5th	—	—	2.34	59	—	11	30th	18	14	—	—	—	—	—	—	—	—	—	—		
11. ENGLISH CHANNEL.																																
Guernsey.	Brooklyn	21 21	9 295	59.4	47.6	53.5	+0.2	68	25th	40	4th	56.8	54.4	1.68	43	-4	19	7th	18	10	0	0	0	1	4	1	0	8.26	+0.16	54		
	Villa Carey	8 8	8 180	60.5	48.6	54.6	+0.4	69	25th	40	4th	—	—	1.82	46	+2	21	7th	17	10	0	0	0	0	1	—	0	8.16	+0.16	53		
Jersey.	St. Aubins	18-7	7 25	60.8	49.0	54.9	+0.7	74	25th	32	4th	—	—	0.83	21	-25	6	7th	11	6	0	0	0	1	0	—	0	8.16	+0.35	54		
Scilly.	St. Mary's	18-7	7 131	58.3	48.4	53.4	+0.9	64	24th	44	28th	—	—	1.45	37	-5	11	14th	15	8	0	0	0	0	5	—	0	7.87	+0.42	51		
Gibraltar	...	7 7	7 44	71.6	57.8	64.7	—	78	31st	54	18th	—	—	1.39	35	—	11	20th	5	5	0	0	0	3	0	0	—	—	—	—		
Malta	...	8 8	8 195	70.3	60.5	65.4	—	77	16th	51	6,10	—	—	0.56	14	—	7	23rd	5	—	—	—	—	—	—	—	—	—	—	—		

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
MAY, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	8.52	+1.07	55
Hove ..	7.94	—	52
Watergate ..	7.42	—	48
LONDON, Bunhill Row	7.03	+1.29	45
Regent's Park	7.35	—	47

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	62	50	56.3	+3.5

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked *g*, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The Symbols ¶ § placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MAY, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of Clear Sky.	No. of days of Overcast.	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).			Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
0. SCOTLAND, N.				ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				</

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MAY, 1921.

[illegible]

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of MAY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.		No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 95 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.							Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.					I.	II.	III.	8 or more.	1-7.	Cal.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
							ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.

TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, MAY, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.							
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%				
O. SCOTLAND, N.								2. ENGLAND, N.E.—cont.								8a. SOUTH WALES.														
Caith.	Thurso (Buckies)	...	240	2'92	74	—	Yk.	Holme-upon-Spalding-Moor	...	35	1'70	43	—	Rad.	B'm'gham W.W. (Tyrmynydd)	...	832	2'73	69	80	Card.	Aberystwyth (Gogerddan)	...	83	2'21	56	80			
Suth.	Dornoch (St. Gilbert's)	...	35	3'17	81	—	E.R.	Lowthorpe (The Elms)	...	63	1'99	51	102		Devil's Bridge	...	825	3'24	82			Lampeter (Falcondale)	...	498	2'09	53				
	Loch More (Achfary)	...	167	4'77	121	108	Linc.	Boston (Black Sluice)	...	11	1'13	29	64		Tregaron (Maes-y-bettws)	...	910	3'20	81		Pem.	Fishguard (Goodwick Station)	...	57	1'83	47				
	Melvich Schoolhouse	...	—	2'29	58	112		Grantham (Saltersford)	...	188	1'61	41	—		Carmarthen (The Friary)	...	62	2'34	59		Carm.	Llanddeusant (Pontorynfe)	...	323	2'03	52				
	Tongue Manse	...	180	3'29	84	138		Horncastle	...	110	1'78	45	—		Cardiff, W.W. (Beacons Res.)	...	1340	3'94	100		Brec.	Crickhowell (Tal-y-maes)	...	1250	1'80	46				
R. & C.	Alness (Ardross Castle)	...	450	3'26	83	125		Louth (Westgate)	...	120	1'64	42	81		Port Talbot (Twyn-yr-hydd)	...	180	2'10	53		Glam.	Treherbert (Tyn-y-waun)	...	801	3'95	100				
	Loch Carron (Plockton)	...	4	4'20	107	—	3. ENGLAND, E.								8p. ENGLAND, S.W.															
	Loch Torridon (Bendamph)	...	20	4'94	125	108	Norfol.	Aylsham (Rippon Hall)	...	90	1'82	46	—	Mon.	Llanfrehfa Grange	...	326	1'99	51	73		Newport W.W. (Newchurch)	...	550	2'51	64				
Inv.	Arisaig (Faire-na-Sguir)	...	130	4'72	120	—		Swaffham	...	250	1'12	28	64		Brushford Rectory	...	450	2'28	58		Som.	Crewkerne (Merefield House)	...	231	2'43	62				
	Cluny Castle	...	900	3'19	81	—	Suff.	Thetford (Waterworks)	...	170	1'00	25	—		Cutecombe (Wheddon Cross)	...	945	2'69	68			North Cadbury Rectory	...	256	1'94	49				
	Drumnadrochit	...	138	—	—	—		Halesworth Rectory	...	50	0'96	24	—		Launceston (Polapit Tamar)	...	315	2'34	59	116		Devon.	Hartland Abbey	...	222	1'72	44			
	Loch Arkaig (Achnacarry)	...	120	6'09	155	—		Hawkedon Rectory	...	305	1'11	28	60		Penzance (Trenegwainton Ho.)	...	400	2'54	65		Corn.	St. Austell (Trevarna)	...	300	2'65	67	109			
	Loch Quoich (Glenquoich)	...	569	6'83	173	125	Camb.	Chatteris (The Priory)	...	45	0'70	18	—																	
	Loch Quoich (Loan)	...	650	11'60	295	—		Ashwell (Odsey)	...	256	1'00	25	—																	
	N. Ballachulish (Alltshellach)	...	80	6'82	173	—	Essex.	Parson Drove (Clows Cross)	...	13	1'43	36	—																	
	Skye (Dunvegan)	...	47	4'76	121	—		Elsenham (Gaunts End)	...	363	1'01	26	—																	
	„ (Portree)	...	65	5'27	134	—		Lexden (Hill House)	...	90	1'03	26	—																	
1. SCOTLAND, E.								4. MIDLAND COUNTIES.								9. IRELAND, N.														
Moray.	Grantown-on-Spey	...	700	2'12	54	91	Yk.	Wath-upon-Deane (Chapel St.)	...	188	—	—	—	Mayo.	Aasleagh House	...	30	5'26	134	—										
	Lhanbryde (Blackhills House)	...	300	2'24	57	—	W.R.	Wetherby (Ribston Hall)	...	130	1'69	43	82		Crossmolina (Ennisceoe)	...	74	2'58	65	79										
Aber.	Aberdeen (Cranford House)	...	120	1'18	30	48	Derby.	Mickleover Manor	...	280	1'78	45	90		Delphi Lodge	...	110	5'36	136	—										
	Fyvie Castle	...	200	1'56	40	—		Uppingham (Ridlington)	...	527	2'13	54	—		Westport House	...	35	1'48	38	—										
	Logie Coldstone (Loanhead)	...	743	3'00	76	117	Notts.	Mansfield (West Bank)	...	405	1'70	43	—	Galw'y.	Ballynahinch Castle	...	41	3'66	93	—										
Kinc.	Peterhead (Forehill Works)	...	133	1'83	47	—	Rutl.	Pittsford (Sedgebrook)	...	311	1'47	37	77		Galway (Grammar School) *	...	60	2'08	53	—										
Forf.	Brechin (Trinity)	...	295	2'64	67	—	Nort'n.	Wellingborough (Swanspool)	...	155	1'15	29	59		Woodlawn	...	300	2'09	53	77										
	Glen Prosen (Pearsie House)	...	600	3'30	84	—	War.	Farnborough	...	515	2'46	63	110		Don.	Killybegs (Rockmount)	...	65	2'70	71	77									
	Montrose (Sunnyside Asylum)	...	200	1'66	42	81	Oxford.	Oxford (Magdalen College)	...	186	1'13	29	63			Letterkenny (District Asylum)	...	183	2'47	63	88									
Perth	Aberfeldy (Dall Avon)	...	320	2'05	52	—	Bucks.	Oving House	...	515	1'67	42	—		Milford (The Manse)	...	150	2'20	56	88										
	Balquhider (Stronvar)	...	422	—	—	—	Staff.	Lichfield (St. John Street)	...	269	1'25	32	—		Narin (Kiltoorish)	...	—	2'58	65	—										
	Blair Atholl	...	—	2'09	53	104	Salop.	Church Stretton (Wolstaston)	...	800	2'04	52	79		Derry.	Londonderry (Creggan Res.)	...	320	2'45	62	94									
	Coupar Angus	...	183	1'82	46	75		Shifnal (Hatton Grange)	...	262	1'14	29	55		Ant.	Ballymena (Harryville)	...	150	3'52	89	123									
	Glendevon (Glenquey Res.)	...	945	4'40	112	—	Wor.	Barnt Green (Upwood)	...	650	1'57	40	—			Belfast (Cave Hill Road)	...	200	2'20	56	—									
	Killin (The Manse)	...	400	4'29	109	—	Here.	Blockley (Upton Wold)	...	800	1'67	42	78			Glenarm Castle	...	70	2'45	62	—									
	Kirkmichael (Ballintuin Ho.)	...	700	2'94	75	—	Glous.	Bromyard (Rowden Abbey)	...	450	1'22	31	—		Tyrone.	Omagh (Edenfel)	...	280	2'22	56	86									
	Loch Dhu	...	325	5'35	136	119		Ledbury (Underdown)	...	307	1'24	31	—		Down.	Banbridge (Milltown)	...	200	2'39	61	106									
	Loch Rannoch (Dall)	...	772	2'68	68	—		Cirencester (Dollarwood Ho.)	...	366	1'97	50	97			Mourne Mts. (Fofanny Res.)	...	938	5'45	138	—									
	Loch Venacher	...	275	4'55	116	139		Clifton (Stoke Bishop)	...	243	1'84	47	—			Seaford	...	180	2'67	68	102									
Midl.	Balerno (Cockburn Hill)	...	767	1'86	47	—	5. ENGLAND, S.E.																							
Had.	North Berwick Reservoir	...	150	1'71	43	59	Mid.	Harrow Weald (Hill House)	...	284	1'29	33	—		Fer.	Warrenpoint (Clonallon)	...	15	3'37	86	—									
Selk.	Ettrick Manse	...	796	3'03	77	—	Kent.	Sevenoaks (Speldhurst Close)	...	470	1'36	35	—		Long.	Enniskillen (Portora)	...	251	1'90	48	—									
	Selkirk (The Hangingshaw)	...	670	2'80	71	113		Tenterden (View Tower)	...	190	1'78	45	113		W.M.	Ballymahon (New Castle)	...	250	1'72	44	—									
Rox.	Hawick (Bransholme)	...	457	2'04	52	91	Surrey.	Reigate (Hartwood)	...	174	1'64	42	—		Meath.	Mullingar (Belvedere)	...	367	2'26	57	92									
	Jedburgh (Jedneuk)	...	270	1'51	38	77	Sussex.	Hailsham Vicarage	...	105	1'31	33	76				Drogheda (Mornington)	...	100	2'20	56	—								
6. SCOTLAND, W.								7a. ENGLAND, N.W.								10. IRELAND, S.														
Arg.	Dalmally (Manse of Glenorchy)	...	150	6'42	163	—		Borrowdale (Seathwaite)	...	423	5'35	136	73		Dublin.	Balbriggan (Ardgillan)	...	211	2'36	60	113									
	Eriska (Ledaig)	...	30	4'61	117	—		Orton	...	770	4'22	107	—			Rathmines (Harold's Cross)	...	155	1'48	38	—									
	Inveraray Castle Gardens	...	40	5'86	149	149		Garstang (Holme H., Bleasdale)	...	650	3'54	90	—		Wick.	Rathnew (Clonmannon)	...	27	2'46	63	—									
	Islay (Ballabus)	...	68	2'72	69	103	Berks.	Grange-over-Sands (Holmcroft)	...	330	3'25	83	—		Q. Co.	Abbey Leix (Blandsfort)	...	532	2'25	57	93									
	Mull (Quinish)	...	35	4'00	102	131	Hants.	Lancaster (Strathspey)	...	87	3'59	91	—		Car.	Hacketstown Rectory	...	600	2'01	51	—									
	Poltalloch	...	132	3'85	98	133	Wilts.	Nantwich (Dorfold Hall)	...	190	1'36	35	—		Wex.	Gorey (Courtown House)	...	60	1'83	47	82									
Bute.	Dougarie Lodge	...	10	3'48	88	—	7b. NORTH WALES.																							
Dumb.	Arrochar (Glen Loin)	...	50	5'52	140	—	Angl.	Lligwy	...	170	2'44	62	—			Wat.	Tramore (Midvale)	...	115	1'89	48	—								
Lank.	Biggar	...	691	1'57	40	—	Carn.	Bethesda (Penrhyn Quarries)	...	528	3'42	87	—		Tip.	Waterford (Brook Lodge)	...	104	2'27	58	98									
Glas'w.	Queen's Park	...	114	2'27	58	93		Carnarvon (Llanbeblig)	...	125	2'25	57	—			Cashel (Ballinamona)	...	257	1'67	42	—									
Ayr.	Girvan (Pinmore)	...	207	2'55	65	86		Snowden (L. Llydaw), No. 9	...	1480	7'81	198	—			Clonmel (Bruce Villa)	...	110	2'60	66	—									
	Maybole (Knockdon Farm)	...	352	2'25	57	—	Denb.	Llangynhafal (Plas Draw)	...	419	1'43	36	—			Nenagh (Castle Lough)	...	120	2'09	53	85									
	New Cumnock (Ayr Sanat'm)	...	850	3'82	97	—	Mer.	Blaenau Festiniog (Oakley Quarries)	...	100	5'28	134	102				Traverston	...	330	2'92	74	—								
Dumf.	Durrisdeer (Drumlanrig)	...	191	2'82	72	—		Dolgelly (Bryntirion)	...	50	3'26	83	98				Roscrea (Timoney Park)	...	475	1'36	35	—								
	Hoddam Castle	...	150	—	—	—		Lake Vyrnwy	...	770	3'14	80	—		Clare.	Broadford (Hurdlestown)	...	167	3'19	81	—									
	Langholm (Drove Road)	...	270	2'71	69	—	Mont.	Llandysilio Rectory	...	225	1'26	32	—			Ennistymon House	...	37	2'78	71	99									
	Moniaive (Maxwelton House)	...	400	2'75	70	—										Inagh (Mount Callan)	...	479	4'11	104	—									
Kirk.	Carsphairn (Shiel)	...	850	4'05	103	—										Newmarket-on-Fergus (Carri-	...	86	2'34	59	—									
Wigt.	Stoneykirk (Ardwell House)	...	65	1'93	49	77																								
2. ENGLAND, N.E.																														
Nor'd.	Ilderton (Lilburn)	...	340	1'54	39	72																								
	Newcastle (Town Moor)	...	201	1'57	40	77																								
Yk.	Mickleton (Lime Kiln Pasture)	...	1175	1'80	46	83																								
N.R.	Pickering (Hungate Hall)	...	90	1'80	46	—																								

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE
BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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JUNE, 1921; ABNORMALLY DRY.

THE persistently dry weather which characterised the spring, and must be attributed to the predominating effect of the Atlantic anticyclone, was maintained throughout June. The scarcity of rainfall was common to all districts. As will be seen from the map on page 74, the areas with more than 50mm. of rain were very limited, and in some places round the South Coast the drought was absolute.

Early in the month the anticyclone extended from the region of the Azores across the British Isles to Scandinavia: only the extreme north-west of these islands was under the influence of cyclonic conditions. A shallow depression over France on the 3rd and 4th caused rain in south-east England. On the 8th and for some days subsequently, depressions in the Icelandic region affected the north-western districts, but in the south dry and warm conditions prevailed and under the influence of the anticyclone temperature steadily rose, exceeding 300a at several stations in the South of England on the 17th. On this date, however, a depression near Spitzbergen extended southwards over the Baltic, and under its influence a cold northerly current spread over the British Isles and produced a marked fall of temperature, exceeding 11a at several stations. On the 17th a temperature of 304a was recorded at Ross-on-Wye, but the maximum on the 18th was only 291a. Local thunderstorms occurred at Gorleston and at Croydon on the night of the 17th-18th. The following night minima below 277a were recorded at several stations, 274a at Benson and 275a at South Farnborough. Ground frosts occurred at Benson, Howden, Kew Observatory and Greenwich, the minimum falling as low as 267a at the last station. Although the Baltic depression remained practically stationary for some days, its effect became less marked over the British Isles, and by the 23rd and 24th the anticyclone was re-established over the southern districts. Temperature rose considerably, and on the 25th it reached 304a at Nottingham, 303a at Ross, 301a at Kew, and 300a at Aberdeen. Subsequently the anticyclone travelled slowly eastwards and was succeeded by a trough of low pressure which produced thunderstorms in the southern and midland districts of England. These were accompanied by brilliant lightning displays, but generally the rainfall was small, although Jersey recorded 15mm. and Bournemouth 11mm. On the 26th an anticyclone extending from the north became established to the west of these islands and the weather became fine and settled. Remarkably clear atmospheric conditions prevailed, especially during the latter part of the month. An observer at Deal reported "a degree of visibility hardly ever remembered here by the present generation." At Folkestone on the 19th, the fields and trees on the French coast could be distinguished with the naked eye.

The arid conditions were not confined to this side of the Channel. Following an unusually dry winter the absence of rain caused considerable anxiety to French agriculturists. In Switzerland the rivers were six feet below their normal level. The Atlantic Ice Patrol reported the presence of icebergs over a wide area, and numbers far in excess of the average. The depression which lay over the Baltic on the 18th and following days was associated with heavy rainfall in parts of Sweden. On the 18th, 19th and 20th, Stockholm reported 23mm., 19mm. and 10mm. of rain respectively. On the latter day 26mm. were reported at Berlin and 22mm. at Kronstadt, while a depression over Italy produced a fall of 53mm. at Rome on the same day.

In Scotland the mean pressure for the month was abnormally high: it has been exceeded in June only once in the last 50 years. Temperature varied considerably and was generally lowest on the 6th. About the middle of the month a warm spell prevailed but was of short duration. This was followed by a cold period. On the evening of the 20th a few flakes of sleet were observed at Aberdeen, and at this station the thermometer failed to exceed 283a on the following day. A warm period followed which reached its maximum on the 25th. On this day Wolfelee reported 304a, the highest temperature recorded in Scotland since June, 1914. On the 26th temperature had fallen very considerably, and at many stations the maxima were more than 11a below those of the previous day. As a result of these many fluctuations the mean temperature of the month was about normal. As in England, the month was abnormally dry, and large areas received less than a quarter of the usual rainfall. Moderate falls occurred about the 8th. In the extreme north under the influence of Icelandic depressions the fall was greater, and at Orkney it even exceeded the normal. Elsewhere the dry conditions recalled the June of 1887. The total for the month at Kirkcaldy

was 6mm., at Edinburgh 9mm., and at Dumfries 9mm. On the night of the 9th-10th strong gales from the north-west caused damage to crops and shipping at Rothesay. Thunder was reported at West Linton on the 10th and at Eskdalemuir on the 17th and 21st.

The following notes by observers illustrate the general character of the month. TOTLAND BAY (*Isle of Wight*).—The June rainfall here was only 4mm., the driest June on record. June is the fifth month in succession below average. TAVISTOCK (*Devonshire*).—The driest month since July, 1913, when 6mm. fell. Many plants and shrubs are showing the effect of the drought. VALENCIA OBSERVATORY.—The total rainfall recorded at Valencia Observatory was only 2.6mm. being the lowest fall in any calendar month since the record was started in 1869. The nearest approach to it occurred in May, 1896, when 5.9mm. was recorded. COPDOCK (*Ipswich*).—The driest month in my 20 years' records. HUDDERSFIELD (*Yorkshire*).—3.8mm. Smallest total monthly rainfall on record here for 50 years. BELPER (*Derby*).—The driest June in the writer's record from 1877. TENBURY (*Worcester*).—Driest June on record. Hay crops very light. Pasture burnt and brown. Keep for cattle scarce. ARDINGLY (*Sussex*).—Lowest rainfall recorded here. BLUNDELLSANDS (*Lancashire*).—The driest June in this district since records were started in 1876. SOUTHPORT (*Lancashire*).—This was the driest June in the 50 years over which our record now extends. DUBLIN.—Scanty rainfall—the lowest for June since 1887. ISLEWORTH (*Middlesex*).—Raspberry and strawberry crops utterly ruined by drought. Driest June for 35 years. BARNSTAPLE (*Devonshire*).—A very dry month. The lowest rainfall for many years. MELTHAM (*Yorkshire*).—The driest month since the commencement of the record in December, 1880. The effect of the dry weather is scarcely noticeable except on the lawns and grass fields; all other vegetation has as yet suffered much less than in several other years.

Air Pressure. The distribution of pressure was of a very unusual type and was everywhere much above the normal. The British Isles lay in the right hand section of a semicircle of high pressure, the centre of which was to the west of Ireland. With the exception of a depression which travelled from the Mediterranean to Scandinavia in the early part of the month, and of a few secondaries, the tracks of all cyclones lay to the north or north-east and had little influence over the weather of these islands. At the telegraphic stations the departure of the monthly means from the normal varied from +4.5mb. at Jersey to +8.8mb. at Valencia Observatory.

Temperature. The mean temperature of the month was above the normal in all districts with the exception of Scotland East where there was a slight deficiency (0.1a). The excess ranged from 0.3a in Scotland North, England East, Scotland West and England North-West to 1.4a in England South-West, Ireland South and the English Channel.

Precipitation. In all Districts there was a great deficiency of rainfall which was most marked in the Southern parts of the Kingdom. Every District received less than half the normal amount and in England South-east only about 6 per cent. In parts of Sussex no rainfall was recorded during the month, and a large area received less than 6mm. More than 25mm. fell in Central Wales, in the Lake District, and the north and north-west of Scotland. Following on exceptional dryness of the preceding months, the deficiency reached serious proportions. The general rainfall expressed as a percentage of the normal was:—England and Wales 17; Scotland 40; Ireland 24; and the British Isles as a whole 26.

Sunshine. There was an excess of insolation in all Districts with the exception of Scotland North, where the mean daily amount of sunshine was 0.55 hr. below normal, and in England East, where the average amount was recorded. The excess ranged from 0.63 h. per day in England South-east to 2.55 hr. per day in Ireland South.

Optical Phenomena. Solar and lunar halos were frequently observed in different parts of the Kingdom. Remarkable sunsets and afterglows were seen on many occasions.

Note. The article by Mr. W. C. Kaye in the Meteorological Magazine for June has been utilized in the preparation of this summary.

70
60
50
40
30
20
10
290
280
270
260
Temperature Scales.

TABLE I.—DISTRICT VALUES—JUNE, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL			
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est	Date.	Low- est	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	78	37	200+	200+	200+	+0.3	200+	—	200+	—	1.26	32	— 37	13	4.62	—0.55	25	7.1	7.4	7.5	1040	2	996	9
Eastern.																								
1. SCOTLAND, EAST ...	88	29	90.0	80.0	85.1	—0.1	86.9	—0.2	84.1	+0.2	0.89	22	— 32	12	7.32	+1.29	42	6.4	5.4	6.5	1033	3	997	9
2. ENGLAND, N.E. ...	87	34	91.3	81.9	86.6	+0.7	87.7	+0.6	85.3	+0.7	0.57	14	— 37	7	7.07	+0.87	42	6.6	6.8	6.1	1032	2, 16	1003	10
3. ENGLAND, EAST ...	85	31	92.0	82.3	87.2	+0.3	88.8	+0.1	86.4	+0.1	0.38	10	— 41	5	6.86	0.00	41	6.7	6.6	5.3	1032	16	1008	8
4. MIDLAND COUNTIES ...	88	29	93.4	81.9	87.7	+0.9	88.4	+1.1	85.5	+0.8	0.39	10	— 46	6	8.02	+1.82	48	6.2	6.2	4.8	1031	2	1009	8
5. ENGLAND, S.E. ...	87	30	93.2	82.9	88.1	+0.8	89.1	+0.7	86.6	+1.0	0.11	3	— 45	3	7.83	+0.63	48	5.9	5.9	5.1	1031	16	1009	8
Western.																								
6. SCOTLAND, WEST ...	81	31	90.3	81.7	86.1	+0.3	87.9	—0.4	84.5	—0.2	0.86	22	— 51	10	—	—	—	6.4	6.7	6.4	1032	2, 3	1003	9
7. ENGLAND, N.W. ...	89	32	91.2	82.5	86.9	+0.6	88.0	+0.7	85.4	+0.3	0.35	9	— 52	7	7.63	+1.12	45	6.5	5.7	5.9	1031	2	1012	8, 9
8. ENGLAND, S.W. ...	86	32	92.9	83.2	88.1	+1.4	90.2	+1.2	87.2	+0.5	0.32	8	— 52	3	8.59	+1.80	52	5.0	4.5	4.1	1031	2	1012	8
9. IRELAND, NORTH ...	84	31	90.4	82.5	86.4	+0.6	88.2	+0.6	85.2	+0.2	0.49	12	— 57	9	6.97	+1.43	41	6.9	6.5	6.3	1032	2	1010	9
10. IRELAND, SOUTH ...	85	35	93.0	83.2	88.1	+1.4	88.3	+0.9	85.9	+0.4	0.26	7	— 60	4	8.54	+2.55	51	5.8	5.7	5.3	1033	1	1015	10
11. ENGLISH CHANNEL ...	80	45	92.0	85.3	88.7	+1.4	90.6	+1.7	88.4	+1.4	0.64	16	— 29	3	8.98	+1.06	56	5.1	4.6	4.4	1030	15	1014	25
Mean: DISTRICTS 1-10..	89	29	91.8	82.2	87.0	+0.7	88.4	+0.5	85.6	+0.4	0.46	12	— 47	7	7.65	+1.28	45	6.2	6.0	5.6	1033	—	997	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—JUNE, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.				Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.					
ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.	
0. SCOTLAND, N. Deerness (Cup Anr.) ...	188	16	5	—	0	7	59	321	294	46	0	320	14	17	12	—	—	—	
1. SCOTLAND, E. Dyce ... Aberdeen (Cup Anr.) ... Balmakewan ... Rosyth ... Edinburgh ...	305 120 140 85 485	75 72 25 73 39	15* 12 18 19 31	— — — — —	0 0 0 0 0	— 1 1 4 1	0 7 1 10 4	6 79 110 291 190	397 517 352 302 354	317 117 257 117 172	0 0 0 0 0	330 300 10 240 260	8 13 11 13 13	10 10 17 9 9	5 6 18 18 19	21 — 21 23 22	10 — 10 11 9	6 — 5 18 18	25 — 35 45 0
6. SCOTLAND, W. Eskdalemuir ... Paisley...	825 188	50 81	22 15	9, 10 —	4 0	4 2	15 8	145 139	369 451	187 122	0 0	300 310	20 14	9 10	23 3	28 26	9 9	22 23	40 30
2. ENGLAND, N.E. Alnwick Castle South Shields Spurn Head Cranwell Howden	340 72 66 278 59	70 61 40 43 40	17 12 † 31 30	— — — — —	0 0 — — 0	— 3 — — 3	0 5 — — 8	27 138 — — 223	369 398 — — 310	313 179 — — 179	11 0 — — —	310 290 — — 270	10 13 — — 13	10 9 — — 10	5 23 — — 1	20 22 — — 18	10 9 — — { 9 10	3 22 — — 22 45 0 15	45 20 — — }
3. ENGLAND, E. Gorleston ... Felixstowe ... Shoeburyness ...	52 58 103	42 40 90	† 25 †	— — —	0 0 0	5 2 —	40 4 0	308 250 63	325 433 288	47 33 369	0 0 0	360 330 50	15 12 10	10 10 6	11 8 17	24 19 15	10 10 10	10 6 7	40 25 25
4. MIDLAND COUNTIES. Benson	270	84	†	—	0	—	0	117	472	131	0	340	10	10	8	18	10	8	15
5. ENGLAND, S.E. Calshot Brighton Larkhill (S'y Plain) Richmond (Kew Obs.) Isle of Grain	45 261 513 82 65	40 53 63 65 45	31 6 43 22 30	— — — — —	0 0 0 0 —	3 — 3 — —	10 0 10 0 —	373 231 374 78 —	328 393 293 507 —	6 96 7 135 —	3 0 36 0 —	50 — 10 70 —	15 11 13 10 —	6 6 6 6 —	18 4 10 14 —	20 18 15 17 —	6 6 { 6 10 8 0	17 4 5 0 —	40 15 — — —
7. ENGLAND, N.W. Fleetwood (Cup. Anr.) Southport Holyhead	109 80 60	44 62 40	— 48 †	9, 10, 20 9, 10 —	15 5 0	10 10 8	99 88 30	240 284 335	327 292 301	39 51 44	0 0 10	310 300 270	23 19 13	10 10 9	7 6 22	— 24 20	— 10 9	— 3 40 19 30	—
8. ENGLAND, S.W. Pendennis Castle§ Plymouth Lyme Regis	256 185 556	65 88 61	24 2 †	28 — —	2 0 0	7 1 1	45 1 1	219 106 111	160 434 462	29 179 146	265† 0 0	80 — —	19 11 11	28 28 6	8 11 4	23 20 16	28 28 6	8 11 8	30 35 0
10. IRELAND, S. Kingstown (Cup Anr.) Quilty Cahiriveen (Val. Obs.) Weaver Pt.	49 100 98 160	27 40 41 30	— † † †	— — — —	0 0 0 0	8 3 0 3	38 22 0 10	238 227 166 252	348 361 312 423	96 61 216 31	0 49 26 4	270 } 230 }	14	{ 9 21 } { 12 12 }	—	—	—	—	—
11. ENGLISH CHANNEL. Scilly	150	32	†	—	0	—	0	77	373	270	0	100	10	28	7	17	28	9	15

*† Out of action from 5th to 14th

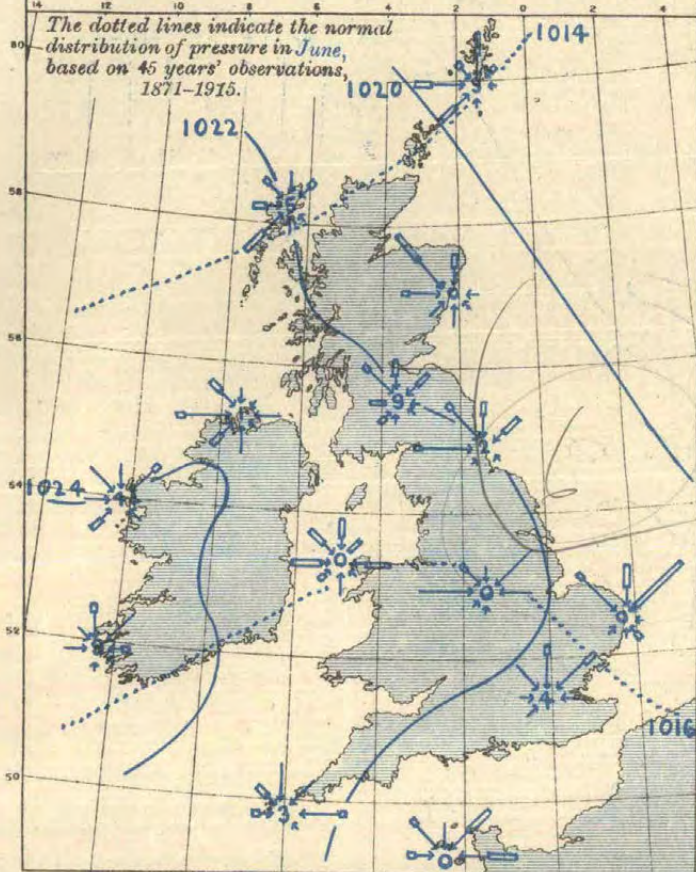
†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]

Above tops of trees.

† Standard mounting.

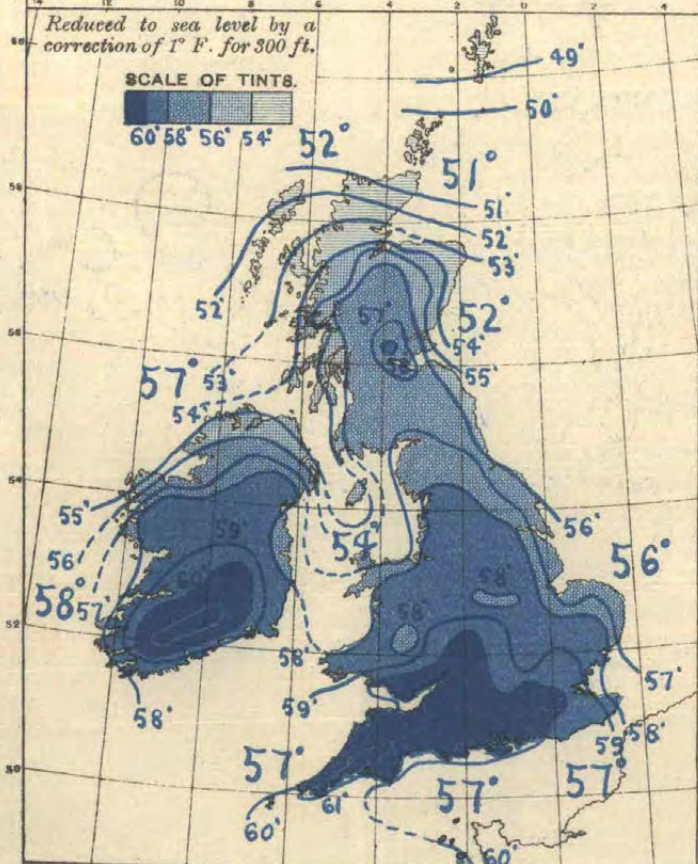
§ Direction from the Robinson Anemometer at Falmouth Observatory.

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



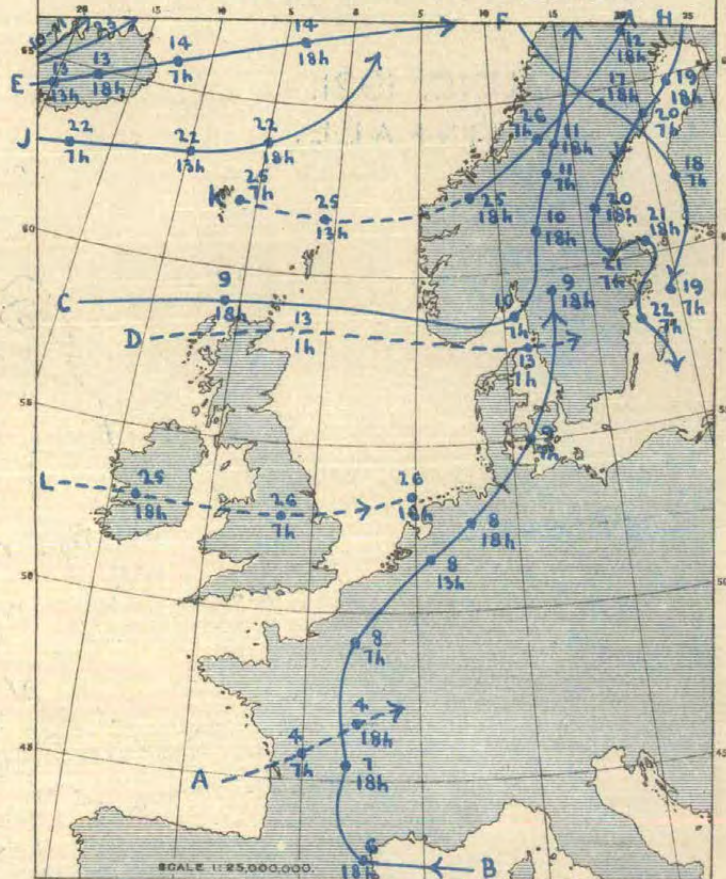
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 OBS. = 1 inch

3. DISTRIBUTION OF MEAN TEMPERATURE.



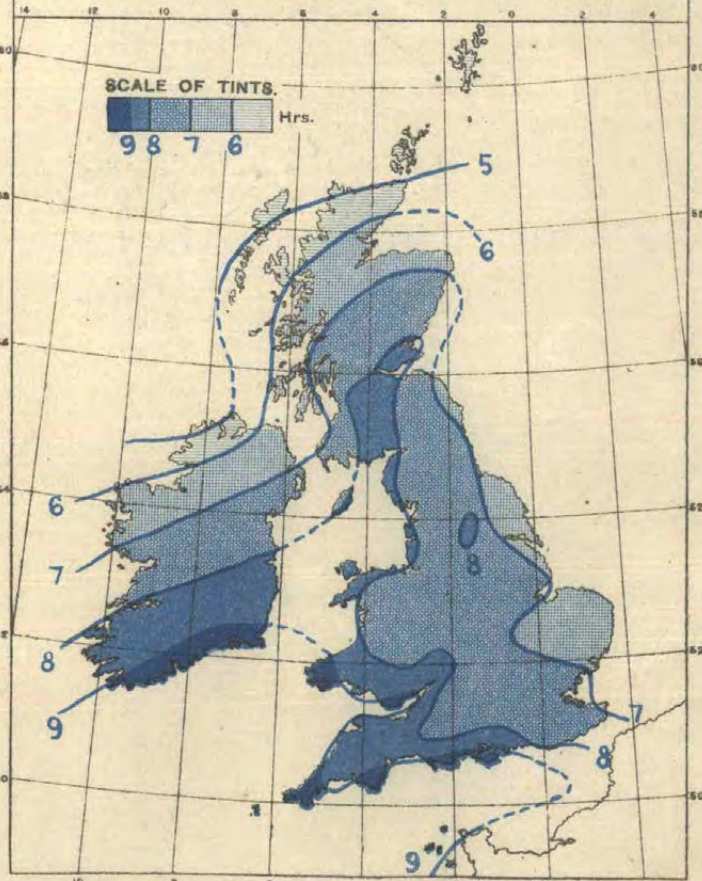
Sea temperatures are shown in large figures, thus: 52°

2. MOVEMENTS OF DEPRESSIONS.



Broken lines show tracks of secondary depressions

4. BRIGHT SUNSHINE HOURS PER DAY.



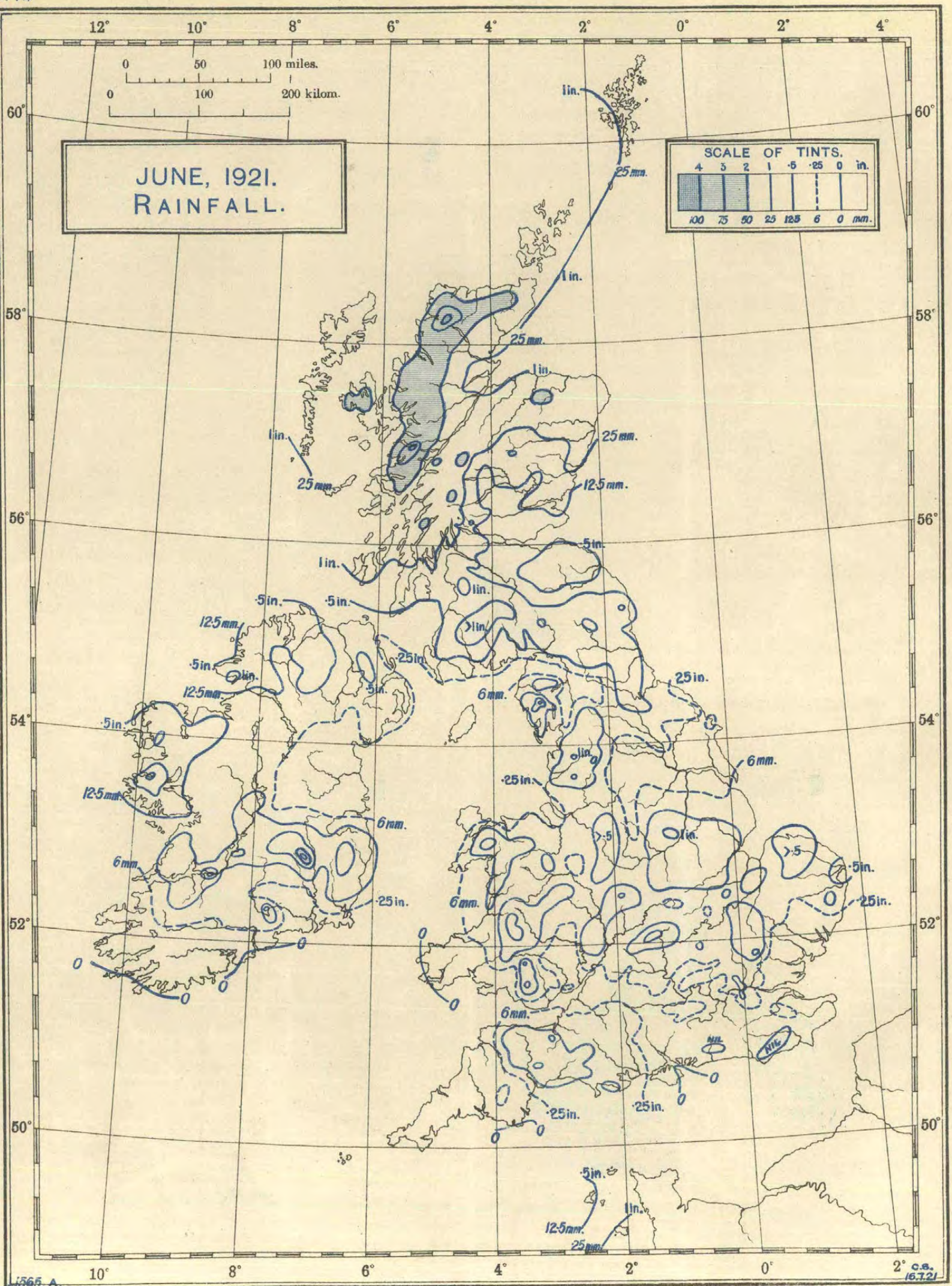


TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1921.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Rain.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 inch. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Calc.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
				A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Shetlands.	Baltasound	...	9 9	31	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.			WEATHER. Number of days.								BRIGHT SUNSHINE.							
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 inch. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
				A	B		Maximum.	Date.	Minimum.	Date.		Amount.	Date.		Daily Mean.	Deviation from Normal.								Per Cent.								
				Max.	Min.		Max.	Min.	Mean of A and B.	Maximum.		Date.	Minimum.		Date.	1 ft.								4 ft.	Amount.	Date.	Precipitation.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
2. ENGLAND, N.E.																																
Northumberland	Alnwick	9 9 9	181	64.4	45.8	55.1	+0.6	83	25th	35	21st	—	—	1.03	26	—29	11	22nd	9	4	0	0	0	0	—	—	—	—	—			
	Bellingham	9 9 9	848	64.2	42.8	53.5	—	81	25th	34	28th	—	—	0.86	22	—	13	8th	9	4	0	0	0	0	—	—	—	—	—			
	Cockle Park	21 21 9	324	64.2	44.4	54.3	+1.3	84	25th	37	2nd	57.4	53.3	0.33	8	—49	4	8th	5	3	0	0	0	0	4	0	7.10	+1.21	41			
	Tynemouth	18—7 7	118	61.1	49.2	55.2	+0.9	80	25th	42	28th	—	—	0.64	16	—34	7	26th	7	4	0	0	0	0	1	0	6.93	—	40			
Durham.	Chopwellwood	9 9 9	445	64.2	42.6	53.4	—	84	25th	34	28th	—	—	0.57	14	—	4	21st	9	6	0	0	0	0	2	0	7.03	—	41			
	Durham	21 21 9	336	66.2	45.1	55.7	+0.4	83	25th	35	28th	—	—	0.77	20	—28	5	26th	8	6	0	0	0	1	0	8	0	7.17	+1.47	42		
	Ushaw College	9 9 9	594	64.8	45.9	55.4	—	84	25th	38	1st	—	—	1.05	27	—	11	25th	8	7	0	0	0	2	0	—	—	—	—	—		
York, N. Riding.	Ampleforth	9 9 9	348	65.2	47.5	56.4	+0.7	83	25th	39	28th	—	—	0.26	7	—45	3	22nd	7	3	0	0	0	1	0	0	—	—	—	—	—	
	Bridlington	21 21 9	57	62.6	46.8	54.7	—	78	17th	38	28th	—	—	0.24	6	—	4	22nd	4	2	0	0	0	0	0	0	6.33	—	37	—	—	
	Rounton	20 20 8	249	65.6	45.9	55.8	+0.9	84	25th	36	28th	57.5	—	0.56	14	—47	6	22nd	10	4	0	0	0	1	0	6	0	—	—	—	—	
	Scarborough*	17—9 9	118	62.4	50.3	56.4	+0.8	81	17th	43	12th	—	—	56.8	0.23	6	—41	3	22nd	4	2	0	0	0	0	0	0	6.43	+0.66	38	—	—
	West Witterton	9 9 9	605	66.3	46.5	56.4	—	86	25th	37	28th	57.1	51.3	0.36	9	—	4	25th	6	2	0	0	0	1	0	0	—	—	—	—	—	
	Whitby	21 21 9	124	63.8	47.6	55.7	+0.3	84	25th	37	28th	—	—	0.22	6	—42	3	22nd	7	2	0	0	0	0	0	0	5.94	+0.07	35	—	—	
York	21 21 9	56	67.6	48.5	58.1	+0.5	86	25th	39	28th	58.3	54.3	0.30	8	—45	3	4th	8	4	0	0	0	0	0	—	0	6.93	+1.10	41	—	—	
York, E. Riding.	Howden	18—7 7	21	67.2	45.5	56.4	—	85	25th	34	28th	58.7	53.5	0.25	6	—	2	4th	5	3	0	0	0	1	6	9	0	7.47	—	44	—	—
	Hull	21 21 9	18	65.8	47.4	56.6	+0.1	82	17th	40	28, 29	59.0	53.1	0.26	7	—45	3	4th	6	3	0	0	0	1	0	0	0	6.00	—	36	—	—
	Spurn Head	18—7 7	26	61.7	50.9	56.3	+0.5	76	17th	46	19th	—	—	0.28	7	—32	3	25th	3	3	0	0	0	1	1	—	—	—	—	—	—	
Lincoln.	Cranwell	18—7 7	237	67.1	47.5	57.3	—	86	25th	38	19th	60.5	55.7	0.83	21	—	5	25th	9	6	0	0	0	1	0	1	0	7.77	—	46	—	—
	Fulbeck	9 9 9	180	68.2	47.2	57.7	—	84	17, 25	37	19, 28	—	—	0.79	20	—29	5	4th	9	6	—	—	—	—	—	—	7.60	+1.10	45	—	—	
	Lincoln	9 9 9	58	68.3	49.2	58.8	+0.5	87	25th	40	19, 28	58.9	54.8	0.53	13	—39	6	26th	8	5	0	0	0	2	0	0	—	—	—	—	—	
	Skegness	17—9 9	12	62.8	49.3	56.1	+0.5	78	17th	38	12, 19	—	—	0.37	9	—38	4	25th	6	3	0	0	0	3	0	—	0	7.17	+0.17	43	—	—
3. ENGLAND, E.																																
Norfolk.	Cromer	9 9 9	196	63.5	47.8	55.7	+0.5	80	25th	43	3, 12, 19	—	—	0.35	9	—37	3	26th	7	4	0	0	0	2	0	—	1	6.13	+0.34	36	—	—
	Geldeston	9 9 9	37	65.8	47.0	56.4	+0.8	80	17th	36	19th	—	—	0.22	6	—40	3	2nd	3	3	0	0	0	2	0	—	0	6.30	+0.60	38	—	—
	L. Massingham	9 9 9	277	64.8	46.4	55.6	+0.1	84	25th	37	12, 19	—	—	0.30	8	—50	3	20th	7	3	0	0	0	2	0	—	0	6.63	+0.16	40	—	—
	Norwich	9 9 9	93	66.5	49.1	57.8	+0.1	82	17th	39	19th	61.9	—	0.55	14	—35	10	17th	7	3	0	0	0	2	0	0	1	6.10	—	37	—	—
Suffolk.	Yarmouth	18—7 7	13	62.3	50.9	56.6	0.0	72	26th	41	12, 19	59.7	56.2	0.57	15	—30	7	17th	7	4	0	0	0	2	0	0	0	6.87	—	41	—	—
	Bungay (Flixton)	8 8 8	79	68.7	47.8	58.3	—	82	17th	40	19, 29	—	—	0.41	10	—	4	26th	5	3	0	0	0	2	0	0	—	—	—	—	—	
	Felixstowe Aero	18—7 7	15	65.0	50.1	57.6	—	75	26th	41	19, 28	—	—	0.14	4	—	4	3rd	1	1	0	0	0	1	0	—	0	7.30	—	44	—	—
	Beach	17—9 9	15	64.3	50.4	57.4	+0.4	74	26th	39	19th	—	—	0.16	4	—48	4	3rd	2	1	0	0	0	1	0	—	0	7.27	+0.43	46	—	—
Cambridge, Bedford.	Copdock	9 9 9	164	67.6	47.9	57.8	—	79	17th	37	19th	59.9	56.5	0.15	4	—	4	3rd	2	1	0	0	0	2	0	—	0	6.93	—	43	—	—
	Lowestoft	17—9 9	83	61.2	51.0	56.1	+0.1	76	26th	41	12, 19	60.9	56.5	0.57	15	—31	9	17th	4	3	0	0	0	2	0	0	0	6.47	+0.76	39	—	—
	Cambridge	20 20 8	41	69.3	47.2	58.3	+0.2	85	25th	33	19th	60.9	56.4	0.59	15	—39	6	25th	6	4	0	0	0	1	0	2	0	7.04	+0.34	42	—	—
	Luton	8 8 8	390	67.8	45.3	56.6	—	85	24th	31	19th	61.4	55.9	0.17	4	—	2	3rd	3	2	0	0	0	1	0	2	0	7.07	—	43	—	—
Hertford.	Woburn	9 9 9	291	68.7	45.3	57.0	+0.1	83	24, 25	32	19th	57.8	54.7	0.49	13	—38	4	5th	8	6	0	0	0	1	0	—	0	7.13	—	43	—	—
	Bennington	21 21 9	406	68.4	47.9	58.2	+0.6	85	25th	37	19th	60.1	57.3	0.81	21	—31	9	25th	5	5	0	0	0	1	0	1	0	7.63	—	46	—	—
	Berkhamsted	9 9 9	450	69.9	48.1	59.0	+1.2	84	17, 24, 25	35	19th	—	—	0.24	6	—52	3	19th	4	3	0	0	0	1	0	2	0	—	—	—	—	—
	Hemel Hempstead	21 21 9	535	67.8	46.7	57.3	—	84	25th	35	19th	—	—	0.32	8	—	3	19th	5	3	0	0	0	1	0	2	0	7.80	—	47	—	—
Essex.	Hitchin	8 8 8	297	70.1	47.6	58.9	—	84	25th	35	19th	61.2	56.5	0.27	7	—	2	3rd	4	4	0	0	0	1	0	0	0	7.57	—	46	—	—
	Rothamsted	9 9 9	420	67.5	47.6	57.6	+0.2	83	25th	35	19th	59.1	—	0.17	4	—52	2	3rd	3	2	0	0	0	1	0	2	0	7.20	+0.60	44	—	—
	Clacton-on-S.	18—7 7	54	64.7	51.0	57.9	+0.7	75	26th	40	19th	59.6	56.4	0.17	4	—36	3	3rd	2	2	0	0	0	1	0	0	0	7.17	+0.16	43	—	—
	Chelmsford	9 9 9	134	68.9	47.2	58.1	—	84	17th	36	19th	—	—	0.13	3	—	2.6	3rd	3	1	0	0	0	1	0	—	—	—	—	—	—	
Southend	Halstead	9 9 9	139	70.8	47.8	59																										

TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1921.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
			A	B			Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
			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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.	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.

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JUNE, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.		Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
						A	B		Maximum.	Date.	Minimum.	Date.		Amount.	Date.		Daily Mean.	Deviation from Normal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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7. ENGLAND, N.W.				ft.	°F	°F	°F	°F	°F	°F	°F	°F	°F	in.	mm.	mm.	mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									</

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, AND OF WEATHER OBSERVATIONS, JUNE, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.					
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
								Amount.	Date.	Daily Mean.	Deviation from Normal.					Per Cent.																		
					Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.			Minimum.	Date.	1 ft.	4 ft.																
9. IRELAND, N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%							
Sligo.	Markree Castle	21 21	9	122	65.5	47.7	56.6	+1.3	80	25th	37	3rd	59.6	53.5	0.49	12	—63	3	11th	8	7	0	0	0	1	2	3	0	6.70	+1.17	39			
Mayo.	Blacksod Pt.	18—7	7	10	60.7	49.7	55.2	—0.5	71	16th	31	10th	—	—	0.52	13	—58	6	11th	8	4	0	0	0	0	5	—	0	—	—	—			
Donegal.	Mallarany	9 9	9	120	66.0	50.1	58.1	—	76	16th	40	2nd	—	—	0.77	20	—	10	11th	7	5	0	0	0	0	0	0	0	6.67	—	39			
	Dunfanaghy	21 21	9	50	60.4	49.4	54.9	—	71	7, 16	42	3rd	—	—	0.83	21	—	5	22nd	12	7	0	0	0	0	0	1	—	0	—	—			
	Malin Head	18—7	7	208	56.9	50.1	53.5	—0.7	68	24th	46	1, 12	—	—	0.60	15	—39	4	11th	14	5	0	0	0	0	0	11	—	0	4.93	—	28		
Antrim.	Lisburn	9 9	9	206	68.9	47.0	58.0	—	84	25th	39	1, 4	—	—	0.41	10	—	5	11th	7	2	0	0	0	0	0	—	0	—	—	—			
Down.	Donaghadee	18—7	7	35	61.3	49.5	55.4	+0.4	70	23rd	41	1, 9	—	—	0.30	8	—51	2	8th	8	3	0	0	0	0	0	6	—	0	—	—			
Armagh.	Armagh	21 21	9	204	66.9	48.4	57.7	+1.7	82	25th	39	1st	58.5	54.0	0.28	7	—57	3	7th	7	2	0	0	0	0	0	1	2	0	7.23	+1.63	43		
Longford.	Newtownforbes	21 21	9	161	67.6	48.0	57.8	—	82	25th	37	1st	60.0	54.1	0.31	8	—	3	11th	5	3	0	0	0	0	0	—	0	—	—	—			
10. IRELAND, S.																																		
Dublin.	Baldonnell City	18—7	7	282	66.1	47.1	56.6	—	79	24th	39	3, 29, 30	—	—	0.16	4	—	2	26th	5	1	0	0	0	0	0	0	0	0	7.70	—	46		
	Glasnevin	21 21	9	54	65.6	52.2	58.9	+1.0	75	24th	43	1st	—	—	0.19	5	—45	2	26th	7	3	0	0	0	0	0	1	0	0	—	—	—		
	Phoenix Pk.	21 21	9	155	66.0	46.2	56.1	+0.7	75	25th	36	1, 3	—	—	0.26	7	—43	2	26th	8	4	0	0	0	0	0	0	10	—	8.17	+1.87	49		
	Trin. Coll.	21 21	9	12	65.5	50.5	58.0	+0.9	76	17th	42	1st	60.2	55.6	0.16	4	—43	1	7, 26	6	2	0	0	0	0	0	0	0	0	—	—	—		
	Ranelagh	21 21	9	61	66.3	49.1	57.7	—	76	17, 25	41	1, 3	—	—	0.19	5	—	2	8th	4	2	0	0	0	0	0	0	1	0	—	—	—		
Wicklow.	Newcastle	21 21	9	256	65.2	49.2	57.2	—	75	17, 25	42	2nd	—	—	0.64	16	—	10	26th	3	3	0	0	0	0	0	0	—	0	—	—	—		
King's Co.	Birr Castle	18—7	7	175	68.5	48.9	58.7	+2.0	84	25th	36	1st	58.7	55.0	0.76	19	—40	12	26th	6	5	0	0	0	0	0	0	1	3	1	0	7.57	+2.10	45
Queen's Co.	Mountmellick	9 9	9	252	69.8	48.6	59.2	—	85	25th	38	3rd	—	—	1.01	26	—	19	26th	6	5	—	—	—	—	—	—	—	—	—	—	—		
Kilkenny.	Kilkenny	9 9	9	195	70.4	48.6	59.5	+2.6	84	25th	35	1st	—	—	0.26	7	—55	3	26th	8	3	0	0	0	0	0	0	—	—	—	—	—		
Waterford.	Waterford	9 9	9	137	69.3	49.9	59.6	+2.0	78	17th	39	1st	—	—	0.09	2	—65	2	27th	1	1	—	—	—	—	—	—	—	—	—	—	—		
	Gortmore	21 21	9	16	70.4	49.8	60.1	—	80	17th	41	11th	—	—	0.09	2	—	2	27th	1	1	—	—	—	—	—	—	—	—	—	—	—		
	Training Col.	21 21	9	542	70.2	48.3	59.3	—	80	25th	38	1st	—	—	0.07	2	—	1.5	8th	2	1	0	0	0	0	0	2	3	1	0	9.53	—	57	
	Seskin, Carrick-on-Suir.	21 21	9	542	70.2	48.3	59.3	—	80	25th	38	1st	—	—	0.07	2	—	1.5	8th	2	1	0	0	0	0	0	2	3	1	0	9.53	—	57	
Tipperary.	Cahir	9 9	9	199	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Limerick.	Foynes	9 9	9	50	68.1	50.2	59.2	+2.0	80	25th	39	1st	—	—	0.60	15	—51	11	26th	4	2	—	—	—	—	—	—	—	—	—	—	—		
	Mungret	9 9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	College	9 9	9	174	71.8	50.1	61.0	+3.8	85	25th	37	1st	—	—	0.06	2	—72	2	27th	1	1	—	—	—	—	—	—	—	—	—	—	—		
Kerry.	Killarney	24 24	24	30	64.4	50.5	57.5	+0.8	73	25th	43	1st	—	—	0.11	3	—78	0.8	8th	5	0	0	0	0	0	0	0	0	0	8.65	+2.38	52		
	Cahirciveen (Val. Obs.)	18—7	7	131	65.3	54.1	59.7	+2.5	80	24, 25	45	1st	—	—	1.26	32	—22	17	29th	2	2	0	0	0	0	0	2	1	—	0	8.43	+0.53	53	
	Ballinacurra	9 9	9	24	68.0	48.9	58.5	+1.3	78	17th	36	1st	—	—	0.00	0	—66	—	—	0	0	0	0	0	0	0	0	—	3	9.80	+3.43	59		
Cork.	Roche's Pt.	18—7	7	32	66.2	52.7	59.5	+2.6	76	17th	42	1st	—	—	0.04	1	—67	0.3	26th	2	0	0	0	0	0	0	2	0	0	—	—	—	—	
11. ENGLISH CHANNEL.																																		
Guernsey.	Brooklyn	21 21	9	295	64.7	52.7	58.7	+0.9	77	25th	47	1st	63.7	59.7	0.36	9	—44	7	25th	5	2	0	0	0	0	0	0	0	0	9.13	+1.00	57		
	Villa Carey	18—7	7	180	66.1	53.8	60.0	+1.4	77	25th	49	1st	—	—	0.36	9	—38	7	25th	5	2	0	0	0	0	0	0	0	0	9.07	+1.00	56		
Jersey.	St. Aubins	18—7	7	25	67.3	54.5	60.9	+2.0	80	24, 25	45	1st	—	—	1.26	32	—22	17	29th	2	2	0	0	0	0	0	2	1	—	0	8.43	+0.53	53	
Scilly.	St. Mary's	18—7	7	131	65.3	54.1	59.7	+2.5	80	24, 25	45	1st	—	—	1.26	32	—22	17	29th	2	2	0	0	0	0	0	0	2	1	—	0	8.43	+0.53	53
Gibraltar	...	7 7	7	44	77.5	62.4	70.0	—0.5	85	29th	56	5th	—	—	0.20	5	—8	4	5th	3	2	0	0	0	0	0	0	0	0	9.43	+1.86	58		
Malta	...	7 7	7	195	75.2	65.0	70.1	—	80	4, 29	62	25th	—	—	0.00	0	—	—	—	0	—	—	—	—	—	—	—	—	—	—	—	—		

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
JUNE, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	7.47	+0.14	45
Hove ..	8.50	—	52
Watergate ..	8.63	—	53
LONDON, Bunhill Row	7.03	+1.03	43
Regent's Park	7.43	—	45

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	64	57	60.1	+1.7

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The Symbols ¶§ placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JUNE, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10).			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JUNE, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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F. J. W. WHIPPLE, M.A., Superintendent, Climatology Division,
South Kensington, S.W. 7, July, 1921.

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL

BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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Vol. 38, No. 7.

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Price 6d. Net, Post free, 7d.

JULY, 1921; FINE AND WARM.

Except in the extreme north-west of the British Isles, July was remarkable for the heat and drought which prevailed during the greater part of the month. In every district in England and Wales it was the seventh month in succession during which the temperature was above the normal, and the fourth month during which precipitation was deficient.

During the first three weeks anti-cyclonic conditions predominated, but towards the close of the month depressions in the Icelandic region caused unsettled weather and appreciable rainfall in the north-west. No real break in the drought occurred in the south.

At the beginning of the month the weather over the whole of the British Isles was under the influence of an anticyclone situated between Scotland and Iceland. The weather inland was warm during the daytime, but north-easterly breezes produced cooler conditions along the east coast. The nights were cool, with ground frost locally inland. The anticyclone moved southwards on the 4th and on the following day completely covered these islands. Its position changed little until the 12th, and with clear skies and light breezes temperature rose steadily. On the 10th and 11th it reached 305a or above in parts of England. 302a was reached as far north as Aberdeen on the 10th and as far west as Cahirciveen on the 12th. After the latter date the anticyclone moved away towards Scandinavia, and a depression lay to the west of Ireland. With cloudier conditions the heat became less intense, but the weather remained dry generally except in the north-western districts. Even in the latter, precipitation was for the most part slight, although 16mm. of rainfall were recorded in 18 minutes at Holyhead during a thunderstorm on the 15th. Local thunderstorms also occurred about this time at a few isolated stations in the east and south-east of England. On the 17th, the Scandinavian anticyclone again moved in a south-westerly direction, and on the following day amalgamated with the Atlantic anticyclone. The depression which had remained practically stationary off the west of Ireland for some days moved away towards Iceland. The weather again became very fine and warm over England, and temperatures of 305a were recorded in parts of England on the 19th. The following night was unusually hot, the thermometer not falling below 294a at Kensington Palace, and 292a at Portland Bill. After the 21st, the anticyclone moved still further towards the south-west, and the greater part of the British Isles came largely under the influence of depressions between Scotland and Iceland. Rain and strong winds were experienced in the west and north, but in the south of England the weather remained dry and warm. A deep depression which appeared off southern Ireland on the 27th and travelled across southern England (track K on map) produced little rain in the south-east, but in the west and north there were considerable falls over a wide area. 47mm. were registered at Holyhead during the night of the 28th, and 63mm. at Baldonnel (Dublin) during the 36 hours ending 7h. on the 29th. A depression which passed outside the Hebrides on the 30th and 31st caused further falls of rain in the north-west.

In London the month was remarkable for brilliant sunshine, excessive warmth and deficient rainfall. The mean temperature at Camden Square was 3.3a above the average, and the highest for any month in the 64 years' record. The rainfall of 3mm. was the least in any July for the same period, the nearest approach being 11.4mm. in July, 1868.

Fog was fairly frequently reported on the western coasts, but over the greater part of our area visibility was good.

The weather over the greater part of Scotland reflected in a minor degree the warm and dry conditions which prevailed over England. Temperature was rather low on the 1st and 2nd, but subsequently became high, the warmest days being the 10th and 18th. At Aberdeen 302a was recorded on the former day; this is the highest temperature at that station since July 1876. Exceptionally warm nights occurred from the 8th to 11th. At Stirling the temperature did not fall below 289a during this time, and on the night of the 8th-9th it did not fall below 292a. The maximum reading during the month in Scotland was 303a at Perth on the 18th. The mean temperature of the month in Scotland was about the same as that for July 1911. On the 28th under the influence of the deep depression which formed off southern Ireland and caused strong north-easterly breezes, a sudden fall of temperature occurred, and readings at Braemar and West Linton on the night of the 29th-30th were as low as 273a. The dry weather continued locally until the 18th or 19th, but light to moderate rain occurred in many places about the 6th and 15th. From the 21st to the end of the month rainfall was general. 58mm. fell at Cargen near Dumfries during this period, and at Colmonell 25mm. or more fell on the 22nd, 28th and 30th. The total amount in Scotland was above the normal in the west and south, but was below normal in the east and north-east.

The warm and dry conditions which prevailed over England were experienced on the continent to an even greater extent. During the hot spell

about the 12th, Dijon and Strasbourg recorded 310a. Towards the end of the month temperatures exceeding 310a were reported, reaching 311a at Paris, 312a at Breslau, and 313a at Strasbourg on the 28th. In the south of France the temperature remained above 294a for several successive nights. Local thunderstorms accompanied by heavy rain occurred in central and southern France during the earlier part of the month. Extensive forest fires occurred in various parts of France, Germany, Norway and Denmark. Further afield the drought in Russia has very adversely affected the harvests and the country is threatened with a famine of unparalleled severity.

The following notes by observers illustrate the general character of the month. MELTHAM (Yorkshire).—Very warm month, only exceeded slightly in August, 1911. Mean maximum the highest in the record. HODSOCK PRIORY (Nottingham).—The mean temperature is higher than in any previous month in the last 42 years, this excess being much the largest in the day reading. EDGBASTON (Warwick).—Record maximum temperature for month of July. TENBURY (Worcester).—Driest July since 1906. Notwithstanding the drought the winter wheat is an excellent crop, but the spring wheat is very poor. Roots are a complete failure. LEXLAND (Lancashire).—Rain less than half the average, nearly all fell after the 20th. Hottest July on record, just exceeding July, 1911. SOUTHPORT (Lancashire).—This was the warmest July in the 51 years for which local records are available. An absolute drought of 16 days' duration terminated with the 12th. SHEEPSTOR (Devon).—The severest drought since 1911 was broken up on St. Swithin's day. The maximum temperatures 303a on the 11th and 19th, are the highest readings recorded at Sheepstor during the last 14 years. TEIGNMOUTH (Devon).—Highest maximum reached during the 40 years' record. TORQUAY (Devon).—The total sunshine is the highest for 10 years. REDRUTH (Cornwall).—Warmest month for at least 20 years. DUBLIN.—A very warm month. The maximum shade temperature 305a recorded on the 9th was the highest reading in Dublin since July, 1905.

Air Pressure.—The general trend of the isobars was in accordance with the normal, but pressure was everywhere high, the excess being about 2mb. in the south and 3mb. in the north. The only depression which passed directly over the Kingdom was one which appeared off the south of Ireland towards the end of the month and subsequently travelled away to southern Scandinavia (see Map Track K). At the telegraphic reporting stations the departure of the monthly means from the normal varied from +0.9mb. at Blacksod Point to +3.7mb. at Spurn Head. The highest reading recorded during the month was 1032mb. at Valencia on the 20th, and the lowest 990mb. at St. Ann's Head on the 29th.

Temperature.—The mean temperature of the month was above the normal in all districts. The excess ranged from 0.9a in Scotland North to 3.2a in Ireland South and 3.3a in the Midland Counties.

Precipitation.—There was a great deficiency of rainfall over England and Wales generally, and extensive areas in the midland and southern counties received less than 20 per cent. of the average fall. The total amount was less than 25mm. to the south-east of a line from Plymouth to Hull, and less than 6mm. over a large area in the Thames Valley and Thames Estuary. To the north-west of this line the amounts increased considerably reaching 175mm. in the mountainous districts of England and Wales, and 200mm. at mountain stations in Perthshire and Inverness-shire. In Scotland the departure from the normal varied considerably in different parts of the country, a deficiency in the east being more than counterbalanced by an excess in the Highlands and some southern counties. In Ireland the amounts were in general above the average. The general rainfall for July, expressed as a percentage of the normal was:—England and Wales 40; Scotland 105; Ireland 130; British Isles 86.

Sunshine.—Insolation was above the normal in all districts. The excess was slight in Scotland North, being only 0.14h. per day, but was as much as 1.86 h. per day in England south-east and 1.88 h. per day in England East. The mean daily duration of bright sunshine ranged from 4.32 h. in Scotland North to 9.40 h. in the English Channel.

Optical Phenomena.—Solar and lunar halos were frequently observed in different parts of the Kingdom. An exceptional mirage was observed at Skegness on the 10th between 16.30 h. and 18 h.

Note.—The article by Capt. C. K. M. Douglas in the Meteorological Magazine for August has been utilized in the preparation of this summary.

Temperature
Scales.

70
60
50
40
30
20
10
290
280
270
260

TABLE I.—DISTRICT VALUES—JULY, 1921. [1908.]

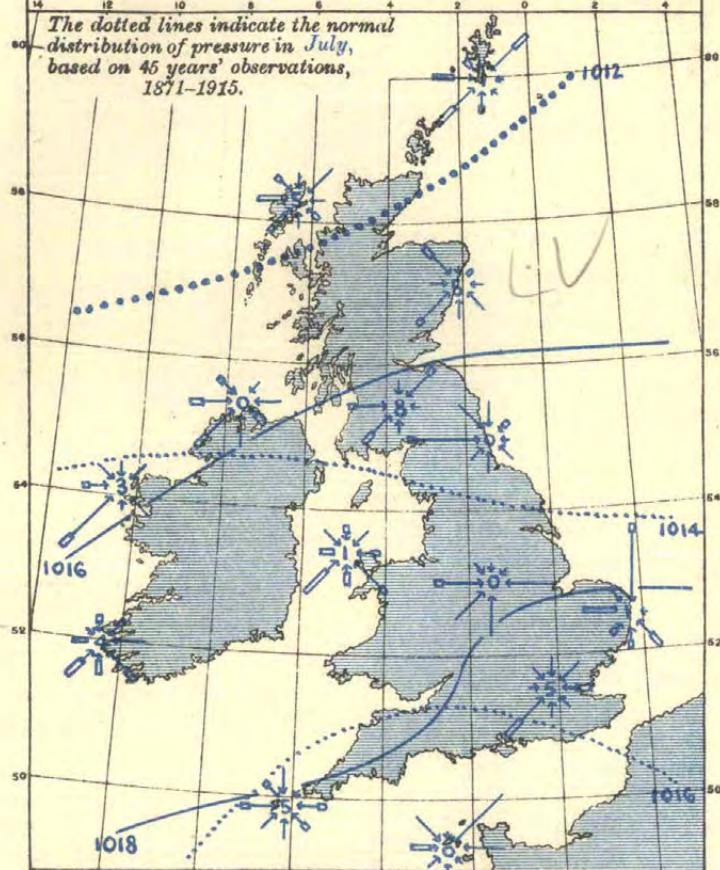
DISTRICTS.	AIR TEMPERATURE.					EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.		CLOUD Mean Amount. (0 to 10).			PRESSURE AT MEAN SEA LEVEL.									
	Highest.	Lowest.	Means of			At 1 ft.	Deviation from Average.	At 4 ft.	Deviation from Average.	Total.	Deviation from Normal.	Number of Days.	Daily Mean.	Deviation from Normal.	Per cent.	I.	II.	III.	High-est	Date.	Low-est	Date.					
			Daily Max.	Daily Min.	Daily Mean.																						
°F.																											
0. SCOTLAND, NORTH ...	81	39	200+	89.9	200+	83.0	200+	86.5	87.9	—	—	—	3.19	81	—	4	17	4.32	+0.14	25	8.3	7.9	8.2	1028	3	988	22
Eastern.																											
1. SCOTLAND, EAST ...	86	32	92.1	83.4	87.8	+1.2	88.6	—	86.0	+0.1	2.38	61	5.47	+0.38	32	7.2	6.0	6.9	1027	3.4	23	994	26				
2. ENGLAND, N.E. ...	92	33	94.7	85.1	89.9	+2.1	90.2	+1.6	87.4	+1.0	1.14	29	6.72	+0.85	41	6.3	6.8	6.5	1027	21	993	28					
3. ENGLAND, EAST ...	94	35	96.8	85.8	91.3	+2.5	92.3	+2.2	88.8	+1.1	0.39	10	8.46	+1.88	52	5.6	5.0	4.9	1027	9	994	29					
4. MIDLAND COUNTIES ...	93	29	98.1	85.3	91.7	+3.3	91.9	+2.9	88.3	+1.4	0.77	20	7.49	+1.63	46	5.2	6.0	5.5	1027	21	993	29					
5. ENGLAND, S.E. ...	94	35	97.4	86.2	91.8	+2.6	92.6	+2.8	89.2	+1.8	0.35	9	8.82	+1.86	55	4.8	5.2	5.1	1028	21	992	29					
Western.																											
6. SCOTLAND, WEST ...	84	37	92.9	84.5	88.7	+1.8	89.8	—	86.5	+0.2	4.73	120	—	—	—	7.4	7.6	7.3	1027	4.5	998	29					
7. ENGLAND, N.W. ...	90	36	94.8	85.6	90.2	+2.4	90.7	+2.0	87.8	+1.3	2.00	1	6.92	+1.02	42	6.3	6.5	6.2	1029	20	993	29					
8. ENGLAND, S.W. ...	90	37	96.3	86.4	91.3	+2.9	93.4	+2.9	89.0	+1.5	1.16	29	8.08	+1.69	50	4.7	4.5	4.6	1030	21	990	29					
9. IRELAND, NORTH ...	86	39	93.2	85.4	89.3	+2.3	90.8	+1.7	87.8	+1.0	3.34	85	5.25	+0.58	32	7.6	7.1	6.2	1030	20	995	25					
10. IRELAND, SOUTH ...	90	43	95.6	86.7	91.1	+3.2	91.7	+2.3	88.5	+1.5	4.02	102	6.72	+1.50	41	7.0	7.0	6.0	1032	20	996	28					
11. ENGLISH CHANNEL ...	87	50	95.8	87.9	91.9	+2.8	94.4	+4.1	91.5	+2.9	0.70	18	9.40	+1.76	59	4.8	4.0	4.4	1030	21	998	28					
Mean DISTRICTS 1-10 ...	94	29	95.2	85.4	90.3	+2.4	91.2	+2.3	88.0	+1.1	2.03	52	7.10	+1.27	43	6.2	6.2	5.9	1032	—	990	—					
°F.																											
a.																											

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—JULY, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.†										Extreme Velocities.		Date.
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. or 25 to 38 mi/hr.		6 to 10 m/s. or 13 to 22 mi/hr.		3 to 5 m/s. or 7 to 11 mi/hr.		No Record.		Highest Hourly.	Highest Gust.	
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.			
ft. ft. ft. hr																

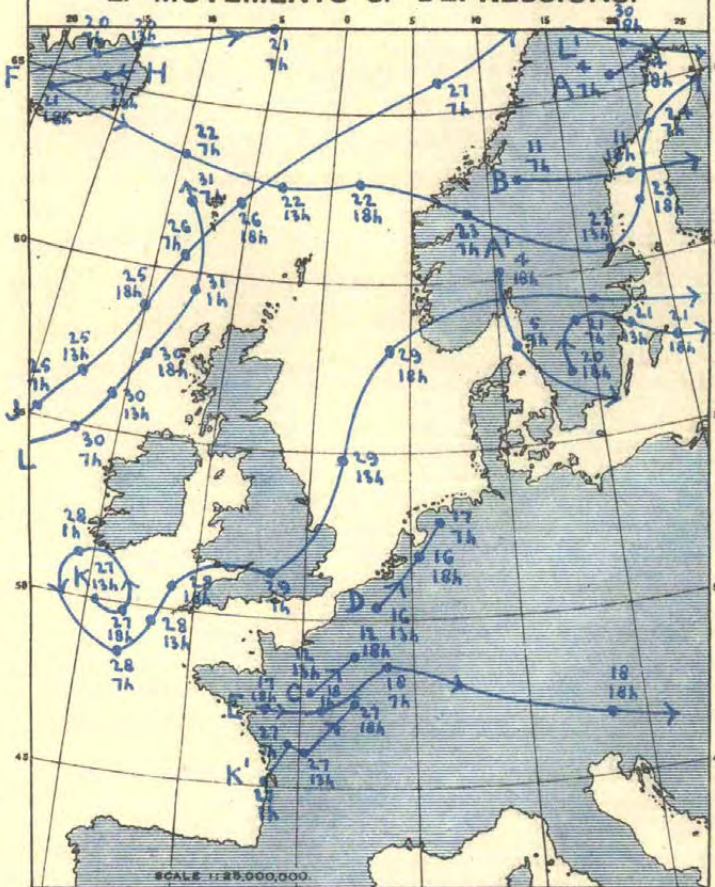
† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]
 *Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

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

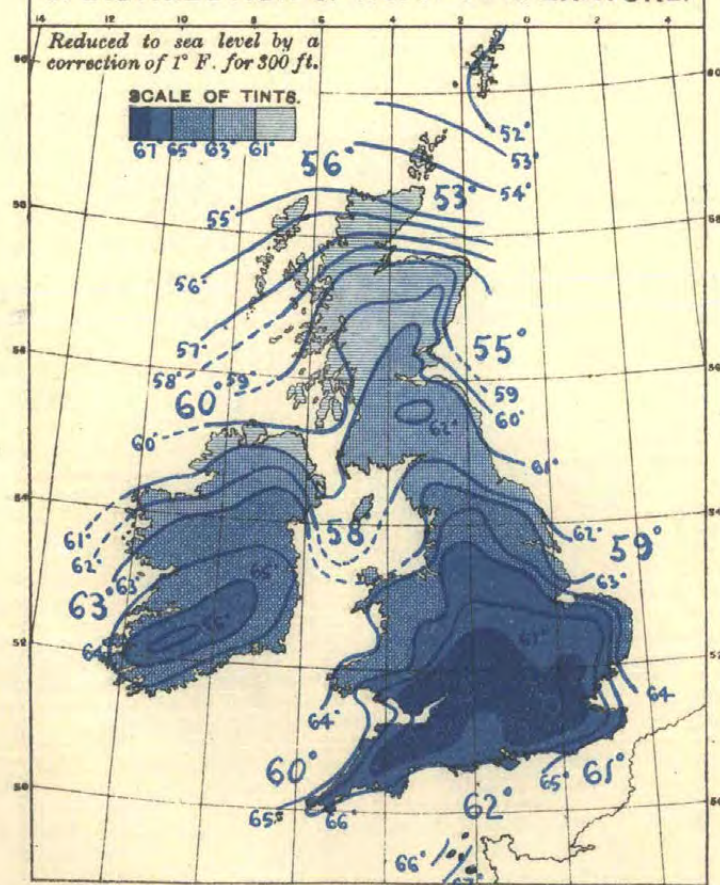


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus: LIGHT TO MODERATE GALE
30 OBS. 1 inch

2. MOVEMENTS OF DEPRESSIONS.

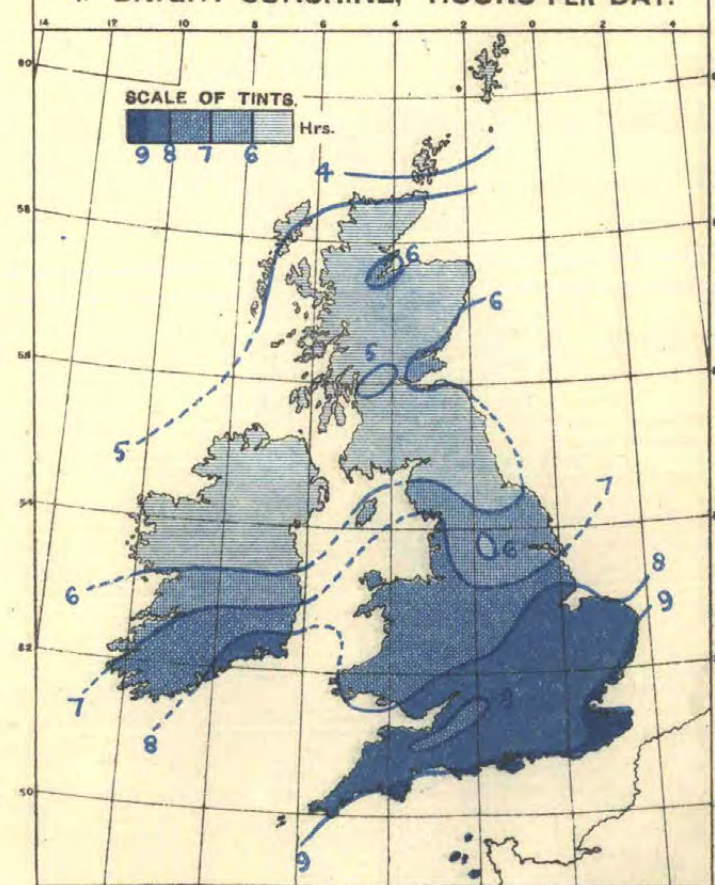


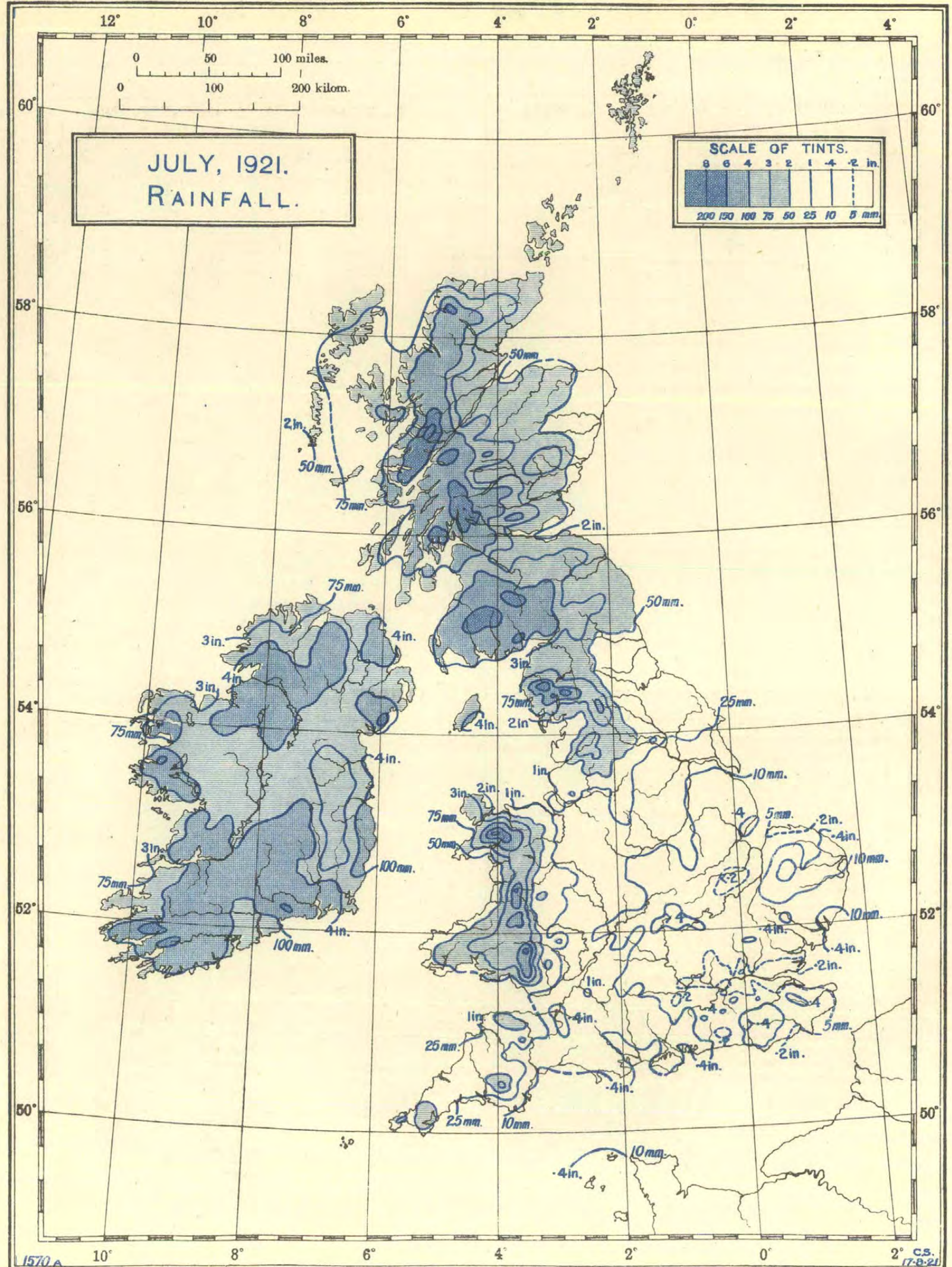
3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 60°

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

PR. 3674/360. WE. 37. D. 617/P. 147. 1350. 8/21.

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
							Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Deviation from Normal.	Most in a day.				Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
										Maximum.	Date.	Minimum.			Amount.	Date.												Daily Mean.	Deviation from Normal.	Per Cent.					
																															A	B	Mean of A and B.		
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	1 ft.	4 ft.	in.	mm.	mm.	mm.	16	10	0	0	0	0	7	0	3	55	hr.	hr.	%					
0. SCOTLAND, N.																																			
Shetlands.		Balsasound	...	9	9	9	31	57.1	47.8	52.5	—	68	18th	42	13th	53.8	—	2.35	60	—	24	22nd	16	10	0	0	0	0	7	—	—	—	20		
		Lerwick	...	18	7	7	54	55.1	47.4	51.3	—1.3	62	18th	43	13th	—	—	2.09	53	—5	11	21st	16	14	0	0	0	0	9	—	—	—	—		
Orkneys.		Deerness	...	21	21	9	160	58.0	49.1	53.6	+0.1	69	18th	45	1, 4, 28	—	—	2.80	71	+6	16	30th	19	16	0	0	0	0	1	—	—	—	20		
		Kirkwall	...	9	9	9	100	59.2	49.8	54.5	—	70	18th	45	13, 25	—	—	2.50	64	—	12	21st	19	16	0	0	0	0	1	—	—	—	—		
Hebrides.		Castlebay	...	18	7	7	37	59.4	54.0	56.7	—	67	14th	49	1, 2, 28	—	—	2.02	51	—	12	30th	19	10	0	0	0	0	8	—	—	—	27		
		Stornoway	...	18	7	7	51	61.1	50.8	56.0	+1.4	71	17th	40	25th	—	—	3.21	82	+5	17	21st	20	15	0	0	0	0	2	—	—	—	30		
Caithness. Sutherland. Ross and Cromarty.		Wick ...	...	18	7	7	81	58.8	48.8	53.8	—0.7	70	9, 10	39	13th	—	—	2.42	62	—5	11	21st	19	10	0	0	0	0	2	—	—	—	—	
		Dunrobin	...	8	8	8	12	64.2	50.9	57.6	+2.0	75	8th	41	2nd	58.5	—	2.39	61	—12	19	28th	11	7	0	0	0	0	0	0	—	—	—	35	
		Fortrose	...	9	9	9	69	64.2	52.7	58.5	—	80	9th	45	1, 2, 30	—	—	2.37	60	—	19	28th	14	8	0	0	0	0	0	0	—	—	—	—	
		Glencarron	...	21	21	9	500	63.1	49.7	56.4	+1.6	72	14, 18	41	2nd	—	—	4.02	102	—34	22	21st	19	18	—	—	—	—	—	—	—	—	—		
Inverness.		Strathpeffer	...	9	9	9	125	66.8	50.8	58.8	+1.9	77	9, 10, 18	41	30th	—	—	1.95	50	—16	18	28th	8	7	0	0	0	0	0	—	—	—	—		
		Ft. Augustus	...	8	8	8	68	65.5	51.0	58.3	+1.6	80	18th	42	2, 24, 30	—	—	2.90	74	+3	12	21st	18	13	0	0	0	0	0	—	—	—	—		
		Ft. William	...	21	21	9	171	67.2	51.7	59.5	+2.3	81	18th	43	30th	—	—	5.71	145	+22	24	21st	20	18	0	0	0	0	4	—	—	—	—		
		Inverness	...	21	21	9	98	65.6	52.8	59.2	—	79	18th	42	2nd	64.5	—	2.29	58	—7	18	18th	19	9	0	0	0	0	1	0	6.35	—	—	37	
1. SCOTLAND, E.																																			
Nairn.		Nairn	...	18	7	7	82	67.2	50.8	59.0	+2.3	80	9th	39	2nd	—	—	1.76	45	—23	15	28th	11	9	0	0	0	0	0	—	—	—	35		
		Gordon Castle	...	21	21	9	101	67.0	51.4	59.2	+2.4	79	9, 10	40	5, 30	—	—	2.27	58	—23	31	28th	10	9	0	0	0	0	0	0	—	—	—	33	
Elgin.		Banff	17	9	9	6	64.2	51.6	57.9	—	75	7, 8, 9	39	5th	—	—	2.00	51	—	16	28th	13	9	0	0	0	0	0	0	—	—	—	29	
		Aberdeen	...	24	24	24	46	63.9	52.2	58.1	+1.4	83	9th	43	30th	—	—	54.5	1.40	—35	12	25th	11	6	0	0	0	0	0	0	—	—	—	29	
Banff. Aberdeen.		Balmoral	...	9	9	9	930	66.3	47.2	56.8	—	81	18th	33	30th	—	—	2.12	54	—13	20	28th	10	9	0	0	0	0	0	2	—	—	—	—	
		Braemar	...	21	21	9	1120	65.9	46.9	56.4	+1.6	79	18th	32	30th	—	—	2.29	58	—7	22	28th	8	8	0	0	0	0	0	4	—	—	—	—	
		Logie Coldstone	...	9	9	9	608	67.9	49.1	58.5	—	83	9th	33	2nd	—	—	1.91	49	—26	16	28th	11	9	0	0	0	0	0	3	—	—	—	—	
		Crathes...	...	9	9	9	269	67.7	51.2	59.5	+2.1	84	10th	39	2nd	57.3	52.7	1.45	37	—35	13	28th	12	10	0	0	0	0	2	1	5.13	+0.16	30		
Kincardine.		Arbroath	...	8	8	8	67	66.8	52.9	59.9	—	83	11th	44	1st	—	—	1.61	41	—	10	24, 28	10	10	0	0	0	0	0	—	—	—	—		
		Carnoustie	...	9	9	9	39	66.0	51.9	59.0	—	83	10th	40	30th	—	—	1.90	48	—	14	28th	12	10	0	0	0	0	0	—	—	—	—		
		Dundee E. Nec.	...	21	21	9	160	69.3	52.5	60.9	+2.5	84	10th	43	30th	—	—	2.14	54	—16	16	28th	12	12	0	0	0	0	0	—	—	—	—		
		„ Coll. Gdns.	...	9	9	9	244	68.0	50.2	59.1	—	82	9th	38	30th	—	—	2.07	53	—	14	28th	12	10	0	0	0	0	0	—	—	—	—		
		Kettins	...	9	9	9	218	67.3	50.5	58.9	—	81	18th	36	30th	—	—	2.25	57	—	12	28, 30	13	10	0	0	0	0	0	1	—	—	—	—	
		Lednathie	...	9	9	9	720	67.4	49.8	58.6	—	80	9th	34	2nd	—	—	3.79	96	—	40	30th	10	8	0	0	0	0	0	4	—	—	—	—	
Montrose.		Montrose	...	17	9	9	16	65.0	51.7	58.4	—	82	8, 10	39	30th	—	—	1.73	44	—	12	28th	11	8	0	0	0	0	0	—	—	—	—		
			...	21	21	9	587	67.4	50.7	59.1	—	82	18th	39	2nd	—	—	2.77	70	—	19	28th	16	13	0	0	0	0	4	—	—	—	—		
Perth.		Crieff ...	...	21	21	9	478	68.1	50.9	59.5	+1.1	82	18th	40	30th	—	—	3.57	91	+16	28	30th	16	11	0	0	0	0	0	—	—	—	—	
		Perth	8	8	8	76	69.6	52.7	61.2	+2.8	86	18th	39	30th	—	—	2.63	67	—6	12	28th	12	11	0	0	0	0	1	0	—	—	—	—	
Fife.		Cupar...	...	9	9	9	210	69.0	52.0	60.5	—	81	9, 10	41	2, 30	—	—	2.12	54	—	17	28th	14	9	0	0	0	0	0	—	—	—	—		
		Kirkcaldy	...	9	9	9	66	67.3	53.9	60.6	—	84	9th	42	30th	—	—	2.57	65	—	20	28th	14	12	0	0	0	0	0	—	—	—	—		
L. nithgow.		St. Andrews	...	17	9	9	20	66.6	52.1	59.4	—	82	10th	41	2, 30	61.3	55.6	1.96	50	—	13	28th	13	12	0	0	0	0	0	—	—	—	—		
		Bangour	...	21	21	9	587	67.4	50.7	59.1	—	82	18th	39	2nd	—	—	2.77	70	—	19	28th	16	13	0	0	0	0	4	—	—	—	—		
Edinburgh.		Blackford Hill	...	21	21	9	441	67.5	52.6	60.1	+3.2	82	10th	45	2nd	—	—	2.20	56	—10	21	28th	14	9	0	0	0	0	2	0	6.03	+0.64	36		
		Liberton	...	9	9	9	190	68.3	—	—	—	83	10th	—	—	—	—	2.07	53	—	21	28th	13	6	0	0	0	0	0	—	—	—	—		
		Edin. Univ.	...	9	9	9	227	68.5	53.8	61.2	—	82	10th	47	2nd	62.3	58.9	2.35	60	—8	24	28th	16	10	0	0	0	0	0	—	—	—	—		
		Inchkeith	...	18	7	7	190	64.3	54.3	59.3	—	77	9th	46	4th	—	—	1.89	48	—	15	28th	14	11	0	0	0	0	2</						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature at 7.8 or 9 ft.		RAINFALL.			WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.					Total Fall.	Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.		Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
				A	B		Mean of A and B.	Maximum.	Date.	Minimum.	Date.			1 ft.	4 ft.								Amount.	Date.		Daily Mean.	Deviation from Normal.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1921

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.					
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
								Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.					
					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.	Max.	
4. MIDLAND COUNTIES—cont.																																
Stafford.	Cheadle	9	9	9	64.6	75.5	53.4	64.5	+5.6	89	10th	41	2nd	—	—	0.76	19	—55	9	25th	7	5	—	—	—	—	—	—	—	—	—	—
	Mayfield	9	9	9	37.4	75.6	50.6	63.1	—	89	10th	35	5th	—	—	0.94	24	—	12	25th	7	4	0	0	0	0	0	0	7.23	—	44	
Shropshire.	Roden, Well'n	8	8	8	207	77.6	50.5	64.1	—	92	10th	36	5th	—	—	0.77	20	—	13	25th	8	3	—	—	—	—	—	—	—	—	—	—
	Wistanstow	21	21	9	481	76.3	51.1	63.7	+3.7	88	10th	37	6th	—	—	0.85	22	—38	12	25th	6	5	0	0	0	0	0	0	—	—	—	—
Worcester.	Malvern	17	—	9	377	76.8	57.7	67.3	—	87	10th	47	5th	68.4	63.4	0.54	14	—	6	25th	5	3	0	0	0	0	0	0	8.51	—	53	
	Sparkhill	7	13	7	424	79.4	53.8	66.6	—	91	10th	39	5th	—	—	0.68	17	—	7	25th	6	4	0	0	0	0	0	0	—	—	—	
	Tenbury	21	21	9	313	78.0	51.9	65.0	+4.9	88	10, 11	37	5th	65.6	—	0.55	14	—33	11	25th	5	3	0	0	0	0	0	0	—	—	—	
Hereford.	Bromyard	9	9	9	392	77.1	53.0	65.1	—	87	10, 19	38	5th	67.2	60.3	0.46	12	—	10	25th	5	1	0	0	0	0	0	0	—	—	—	
	Hereford	9	9	9	291	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Ross	18	—	7	223	79.4	54.5	67.0	+5.0	90	11, 19	41	5th	69.0	61.8	0.50	13	—44	7	25th	4	3	0	0	0	0	0	0	8.27	—	51	
Gloucester.	Cheltenham	9	9	9	214	78.8	57.0	67.9	+6.5	90	10th	46	5th	—	—	0.14	4	—56	3	25th	2	1	0	0	0	0	0	0	8.38	—	52	
	Overcourt	9	9	9	147	78.1	55.9	67.0	—	90	13th	42	5th	—	—	0.51	13	—	4	25th	10	6	—	—	—	—	—	—	—	—	—	
	Clifton	9	9	9	225	77.8	57.6	67.7	+5.0	89	13th	50	5th	—	—	1.71	43	—29	27	25th	9	6	0	0	0	0	0	0	8.74	—	54	
5. ENGLAND, S.E.																																
London.	Camden Square	9	9	9	110	82.2	57.9	70.1	+5.8	93	11th	48	1st	68.9	61.6	0.13	3	—58	1	28, 29	3	2	—	—	—	—	—	—	—	—	—	—
	East Ham	9	9	9	15	80.0	55.6	67.8	—	92	11th	46	1, 2	—	—	0.11	3	—	1	28, 29	3	2	—	—	—	—	—	—	—	—	—	
	Enfield	9	9	9	148	79.5	55.6	67.6	—	92	11th	43	1st	—	—	59.8	0.23	6	—	2	28th	7	3	0	0	0	0	0	0	8.55	—	53
	Greenwich	9	9	9	149	81.6	55.4	68.5	+5.0	94	11th	45	1st	62.7	57.7	0.15	4	—53	2	17th	4	2	0	0	0	0	0	0	9.21	+2.71	57	
	Hampst'd Res.	20	20	9	450	77.7	56.7	67.2	—	92	11th	47	1, 2	—	—	0.22	6	—	2	29th	5	3	0	0	0	0	0	0	8.48	—	53	
	Richmond (Kew Obs.)	24	24	24	18	78.8	57.7	68.3	+5.6	89	10th	46	1st	67.6	59.9	0.15	4	—51	1	14th	5	2	0	0	0	0	0	0	8.27	+1.79	51	
	Kensington Pal.	9	9	9	80	79.8	57.4	68.6	—	91	10, 11	46	2nd	66.8	60.5	0.13	3	—	1	28th	5	1	0	0	0	0	0	0	—	—	—	
	Tottenham	21	21	9	51	79.1	58.4	68.8	—	91	11th	46	1st	—	—	66.2	0.17	4	—	2	28th	2	2	0	0	0	0	0	0	8.61	—	53
	Westminster	9	9	9	27	79.5	59.0	69.3	+6.1	92	11th	50	2nd	—	—	0.11	3	—53	2	28th	3	1	0	0	0	0	0	0	8.16	+2.32	50	
Kent.	Belvedere	9	9	9	14	78.3	55.3	66.8	—	91	11th	44	1st	62.8	56.4	0.09	2	—	1.7	28th	2	1	0	0	0	0	0	0	—	—	—	
	Bexley Heath	21	21	7	161	80.5	55.2	67.9	—	93	11th	44	1st	67.1	59.9	0.18	5	—	2	17th	3	2	0	0	0	0	0	0	—	—	—	
	Biggin Hill	18	—	7	600	76.3	55.1	65.7	—	89	11th	43	1st	—	—	0.28	7	—	6	28th	5	1	0	0	0	0	0	0	9.02	—	55	
	Canterbury	9	9	9	40	77.5	55.9	66.7	—	93	11th	46	6th	71.1	62.5	0.27	7	—	5	28th	2	2	—	—	—	—	—	—	—	—	—	
	Deal	17	—	9	1	73.5	56.1	64.8	—	89	11th	46	6th	66.2	60.9	0.19	5	—	2	28th	4	2	0	0	0	0	0	0	9.92	—	62	
	Dungeness	18	—	7	21	69.8	57.0	63.4	+2.5	81	11, 19	46	6th	—	—	0.22	6	—40	2	28th	4	4	0	0	0	0	0	0	—	—	—	
	Folkestone	17	—	9	101	72.8	56.4	64.6	—	84	11th	47	1st	—	—	60.3	0.30	8	—	2	6, 23	5	4	0	0	0	0	0	9.54	—	60	
	Isle of Grain	18	—	7	10	74.1	55.6	64.9	—	90	11th	45	2, 6	—	—	0.28	7	—	6	28th	4	2	0	0	0	0	0	0	9.55	—	59	
	Lymington	18	—	7	350	73.5	55.2	64.4	—	85	11th	44	1st	—	—	58.0	0.31	8	—	3	28th	5	3	0	0	0	0	0	1	9.73	—	61
	Margate	17	—	9	51	71.8	58.7	65.3	+3.2	87	11th	50	6th	70.7	65.7	0.08	2	—48	1.5	28th	2	1	0	0	0	0	0	0	8.92	+2.37	56	
	Ramsgate	9	9	9	168	72.1	57.0	64.6	—	84	11th	47	6th	—	—	0.12	3	—	2.7	28th	2	1	0	0	0	0	0	0	9.48	+2.29	59	
	Sevenoaks	9	9	9	509	78.9	54.6	66.8	—	92	11th	43	1st	66.7	59.7	0.32	8	—54	7	28th	3	2	0	0	0	0	0	0	9.14	—	57	
	Tunbridge W.	17	—	9	354	78.1	54.4	66.3	+4.8	91	11th	43	1st	65.0	60.3	0.65	17	—39	15	28th	2	2	0	0	0	0	0	0	8.41	+1.54	53	
	Surrey.	Addington	9	9	9	472	76.1	53.7	64.9	—	87	10, 11	40	2nd	—	—	0.18	5	—	4	28th	3	1	—	—	—	—	—	—	—	—	—
		Croydon	18	—	7	245	78.4	54.9	66.7	—	90	11th	42	1st	—	—	0.13	3	—	2.5	28th	3	1	0	0	0	0	0	0	—	—	—
Wallington		9	9	9	140	79.6	56.1	67.9	—	92	11th	46	1, 2, 6	69.6	67.4	0.15	4	—	3	28th	2	1	0	0	0	0	0	0	—	—	—	
Witley		9	9	9	150	80.5	54.2	67.4	+5.7	91	10, 11	41	1st	67.2	60.3	0.19	5	—43	2	17th	5	2	0	0	0	0	0	0	8.50	+1.76	53	
Woking		9	9	9	179	82.1	52.6	67.4	—	94	11th	40	1st	68.6	—	0.14	4	—	3	18th	3	1	—	—	—	—	—	—	—	—	—	
Sussex.	Ardingly	9	9	9	439	78.3	52.9	65.6	—	91	11th	43	1, 6	—	—	0.49	12	—	11	28th	3	2	0	0	0	0	0	0	—	—	—	
	Bognor	9	9	9	20	72.9	57.5	65.2	+4.3	88	19th	47	5th	—	—	56.9	0.43	11	—36	5	17th	6	3	0	0	0	0	0	8.70	+1.18	54	
	Brighton	17	—	9	31	73.1	57.2	65.2	+3.0	87	19th	48	1st	—	—	63.8</																

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.			
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Cale.	Hours per day.									
					A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.								Daily Mean.	Deviation from Normal.	Per Cent.							
					Max.	Min.																						Max.	Min.					
7. ENGLAND, N.W.																																		
Cumberland.	Aspatria (Mealsgate)	21	21	9	487	68.7	52.4	60.6	+2.5	80	18th	44	4th	61.3	56.5	2.36	60	-29	13	22nd	15	13	0	0	0	1	0	0	0	0	5.85	+0.04	35	
	Egremont	...	20	20	8	349	69.7	53.7	61.7	—	81	10, 18	46	2, 5	64.4	57.9	3.97	101	—	31	28th	15	11	0	0	0	0	1	0	0	6.24	—	38	
	Keswick	...	9	9	9	254	69.8	53.4	61.6	—	83	18th	41	4th	62.7	56.5	3.81	97	—	17	25th	16	12	0	0	0	0	3	0	0	—	—	—	
	Newton Rigg	ft.	21	21	9	559	70.6	50.5	60.6	+2.2	84	10, 18	40	4, 5	—	—	2.60	66	-7	18	23rd	16	11	0	0	0	1	0	0	0	6.29	+0.45	38	
	Scaaby	...	9	9	9	111	72.3	51.2	61.8	+3.1	85	18th	42	5th	—	—	2.06	52	-31	12	22nd	11	11	0	0	0	1	0	0	—	—	—	—	
Lancashire.	Blackpool	ft.	17	—	9	66	70.3	55.4	62.9	+3.6	79	17th	45	3, 4, 5	62.4	57.0	1.65	42	-32	8	23rd	14	10	0	0	0	1	0	0	0	7.07	+0.36	43	
	Blundellsands	...	9	9	9	34	71.9	57.4	64.7	—	82	10, 13	47	5th	64.8	59.0	0.76	19	—	5	22nd	13	7	0	0	0	2	0	0	0	—	—	—	
	Bolton	...	9	9	9	341	73.7	54.6	64.2	—	86	9th	44	5th	63.0	58.0	1.59	41	—	13	25th	12	7	0	0	0	2	0	0	0	6.61	—	40	
	Burnley	...	9	9	9	458	71.9	51.6	61.8	—	84	9, 10	37	5th	62.1	56.4	1.62	41	—	12	25th	13	5	—	—	—	—	—	—	6.33	—	39		
	Darwen	...	21	21	9	722	72.7	53.2	63.0	—	86	10th	42	5th	64.7	57.2	2.43	62	—	20	25th	12	9	0	0	0	2	0	0	0	6.70	—	41	
	Hutton	...	9	9	9	82	72.9	52.7	62.8	—	84	9th	42	5th	63.0	57.8	2.04	52	—	16	22nd	12	8	0	0	0	1	2	0	0	0	6.99	—	43
	Lancaster	...	9	9	9	311	70.7	55.1	62.9	—	81	18th	46	4, 5	64.0	61.6	1.68	43	—	10	31st	14	12	0	0	0	2	0	0	0	6.39	—	39	
	Leyland	...	9	9	9	124	72.2	53.1	62.7	—	83	9th	40	5th	—	—	1.65	42	—	15	23rd	12	5	0	0	0	3	0	0	0	7.40	—	45	
	Morecambe	...	17	—	9	24	71.0	56.5	63.8	—	80	18th	46	2nd	—	—	1.22	31	—	4	31st	13	12	0	0	0	0	0	0	0	7.62	—	46	
	Southport	ft.	17	—	9	37	70.3	55.8	63.1	+3.7	79	13, 15	45	4, 5	67.2	62.3	1.72	44	-29	13	23rd	13	8	0	0	0	3	0	0	0	7.65	+1.10	47	
	Stonyhurst	ft.	9	9	9	375	71.5	54.4	63.0	+4.3	83	18th	44	2, 5	—	—	3.43	87	-11	28	25th	12	9	0	0	0	4	0	0	0	6.51	+0.86	39	
Liverpool.	Bidston	ft.	21	21	9	188	71.0	56.4	63.7	+3.7	80	13th	48	1, 2	—	—	0.82	21	-45	5	23rd	12	8	0	0	0	8	0	0	0	7.50	—	46	
	Whitworth Pk.	ft.	21	21	9	125	75.7	55.1	65.4	+4.6	89	10th	42	5th	—	—	1.17	30	-54	10	25th	11	5	0	0	0	1	0	—	0	6.29	+1.26	38	
	Oldham Road	...	21	21	9	190	74.9	57.4	66.2	+4.7	87	10th	46	5th	67.7	63.3	1.25	32	-50	10	25th	11	8	0	0	0	1	0	0	0	6.69	+2.04	41	
Manchester.	Alex. Park	...	18	—	7	99	75.7	53.0	64.4	—	88	10th	36	5th	—	—	0.93	24	—	9	25th	10	5	0	0	0	3	5	0	0	—	—	—	
Cheshire.	Hawarden B'ge	ft.	9	9	9	22	74.0	55.4	64.7	+4.0	84	10th	46	5th	—	—	0.60	15	-42	5	25th	10	8	—	—	—	—	—	—	—	—	—	—	
	Hoyle	ft.	9	9	9	30	71.8	55.5	63.7	+3.6	81	9th	47	5, 30	—	—	1.55	39	-23	11	14th	12	8	—	—	—	—	—	—	—	7.60	+1.37	46	
	Macclesfield	ft.	8	8	8	500	75.0	52.7	63.9	+4.8	88	10th	41	5th	—	—	1.08	27	-56	10	25th	8	7	—	—	—	—	—	—	—	—	—	—	—
7a and 8b WALES.																																		
Flint.	Rhyl	...	17	—	9	30	70.8	54.8	62.8	+3.4	83	13th	45	2nd	—	—	1.07	27	-29	7	28th	12	8	0	0	0	0	0	0	0	7.44	+0.92	45	
	Holyhead	ft.	18	—	7	15	68.8	56.1	62.5	+4.0	78	10th	48	2nd	—	—	3.78	96	+30	47	28th	14	10	0	0	0	5	5	—	—	7.27	—	44	
Anglesey.	Colwyn Bay	ft.	17	—	9	81	70.6	56.7	63.7	—	78	14, 15	49	2, 5	—	—	0.84	21	—	6	22nd	7	7	—	—	—	—	—	—	—	8.30	—	31	
	Llandudno	ft.	17	—	9	22	70.4	56.3	63.4	+3.3	78	10, 14	46	2nd	—	—	1.51	38	-23	12	28th	12	9	0	0	0	1	0	—	0	7.35	+0.99	45	
Merioneth.	Aberdovey	ft.	9	9	9	60	72.5	58.9	65.7	+4.8	84	13th	52	2, 5	—	—	1.74	44	—	12	25th	11	6	0	0	0	4	0	—	0	7.47	+1.44	46	
	Welshpool	...	8	8	8	262	76.6	51.7	64.2	—	90	10th	38	5th	—	—	1.31	33	—	11	25th	11	4	0	0	0	2	0	0	0	—	—	—	
Montgomery.																																		
Cardigan.	Aberystwyth	ft.	17	—	8	16	70.1	57.1	63.6	—	84	13th	47	2nd	—	—	1.38	35	—	13	25th	10	7	0	0	0	2	0	—	0	7.52	+1.58	46	
	Haverfordwest	ft.	21	21	9	250	72.7	55.4	64.1	—	84	13th	42	1st	—	—	2.28	58	-23	27	28th	9	8	0	0	0	2	4	—	—	8.35	+1.51	52	
	St. Ann's Hd.	ft.	18	—	7	149	68.7	57.7	63.2	+4.8	79	12th	52	1, 3, 4	—	—	1.53	39	-24	23	28th	11	4	0	0	0	0	3	—	—	8.44	+1.76	53	
	Tenby	...	9	9	9	64	73.6	56.0	64.8	—	84	11, 12, 18, 19	45	1st	—	—	1.96	50	—	24	28th	12	6	0	0	0	0	0	0	0	7.81	+0.71	49	
Brecknock.	Gwernyfed Pk.	ft.	8	8	8	374	76.1	49.8	63.0	+3.6	87	9, 10	38	5th	—	—	0.82	21	-43	11	25th	9	4	0	0	0	3	0	—	—	—	—	—	
	Rhayader	ft.	9	9	9	757	72.7	50.0	61.4	—	85	10th	37	2, 5	—	—	1.75	45	—	14	22nd	11	8	0	0	0	2	0	4	1	6.98	—	43	
Glamorgan.	Cardiff	ft.	21	21	9	202	76.7	56.7	66.7	+6.2	87	10, 13	47	5th	67.7	61.1	0.99	25	-53	8	25th	8	7	0	0	0	1	0	0	0	8.44	—	52	
	Swansea	...	9	9	9	25	75.5	58.0	66.8	—	89	19th	52	1, 3	69.2	61.5	2.34	59	—	15	16th	14	9	0	0	0	3	0	0	0	7.53	—	47	
Monmouth.	Newport	ft.	8	8	8	32	78.0	58.6	68.3	—	89	10, 13	48	5th	70.5	62.1	0.98	25	—	7	25th	9	7	0	0	0	0	0	0	0	—	—	—	
8b. ENGLAND, S.W.																																		
Somerset.	Bath	ft.	17	—	9	66	78.5	56.2	67.4	+5.9	89	10, 13	45	5th	68.6	62.8	0.61	15	-48															

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, JULY, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.			
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
								Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.				
					Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Deviation from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Amount.	Date.	Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
9. IRELAND, N.																																
Sligo.	Markree Castle	21 21 9	122	70.5	52.8	61.7	+4.3	82	13th	39	4th	64.1	58.0	5.13	130	+43	28	30th	19	4	0	0	0	2	0	0	1	5.44	+1.05	33		
Mayo.	Blacksod Pt.	18—7	7	10	66.6	55.9	61.3	+3.6	76	13, 14	49	4th	—	—	1.70	43	—37	16	24th	11	4	0	0	0	0	0	1	—	—	—		
	Mallarany	9 9 9	120	69.3	55.4	62.4	—	84	12th	44	1 4	—	—	4.55	116	—	22	22nd	16	16	0	0	0	0	1	1	0	5.40	—	32		
Donegal.	Dunfanaghy	21 21 9	50	66.5	54.3	60.4	—	81	13th	49	4, 29, 30	—	—	2.68	68	—	15	22nd	15	12	0	0	0	2	0	—	—	—	—	—		
	Malin Head	18—7	7	208	62.9	54.5	58.7	+2.2	75	9th	49	30th	—	—	2.02	51	—21	8	31st	17	12	0	0	0	0	7	—	5.08	—	30		
Antrim.	Lisburn	9 9 9	206	72.3	51.5	61.9	—	86	10th	42	4th	—	—	3.72	94	—	20	28th	18	14	0	0	0	0	0	0	—	—	—	—		
Down.	Donaghadee	18—7	7	35	66.0	53.9	60.0	+2.5	78	19th	46	24th	—	—	3.55	90	+19	33	28th	15	12	0	0	0	1	2	—	—	—	—		
Armagh.	Armagh	21 21 9	204	71.6	53.9	62.8	+4.6	85	10th	43	3rd	62.9	58.0	3.65	93	+20	19	22nd	16	10	0	0	0	1	0	0	5.05	+0.34	31			
Longford.	Newtownforbes	17—9	9	161	72.0	54.4	63.2	—	84	12th	45	2nd	65.4	60.0	3.87	98	—	30	30th	15	13	0	0	0	1	0	—	—	—	—		
10. IRELAND, S.																																
Dublin.	Baldonnell	18—7	7	282	72.5	53.9	63.2	—	83	9, 10	43	1st	—	—	3.68	93	—	41	28th	13	11	0	0	0	1	3	0	1	5.86	—	36	
	City	21 21 9	54	70.8	57.8	64.3	+3.9	82	9th	50	24th	—	—	4.24	108	+43	38	27th	13	10	0	0	0	4	1	0	0	—	—	—		
	Glasnevin	21 21 9	55	71.6	55.6	63.6	+4.4	84	9th	48	4, 24	—	—	4.42	112	+46	37	27th	14	11	0	0	0	2	0	0	2	—	—	—		
	Phoenix Pk.	21 21 9	155	72.1	53.7	62.9	+4.5	85	9th	45	1st	—	—	3.54	90	+22	29	27th	14	9	0	0	0	1	0	0	0	5.95	+0.47	36		
	Trin. Coll.	21 21 9	12	72.0	55.3	63.7	+3.6	84	9th	48	24th	65.3	60.3	4.14	105	+43	37	27th	12	10	0	0	0	1	0	0	0	—	—	—		
	Ranelagh	21 21 9	61	72.2	55.9	64.1	—	87	9th	48	24th	—	—	4.29	109	—	37	27th	12	10	0	0	0	1	0	0	0	—	—	—		
Wicklow.	Newcastle	21 21 9	256	70.5	54.4	62.5	—	83	10th	46	1st	—	—	5.56	141	—	41	27th	12	12	0	0	0	2	0	—	—	—	—	—		
Kildare.	Clongowes Wood	9 9 9	246	72.3	54.5	63.4	—	84	10th	44	1st	—	—	2.80	71	—	15	28th	14	12	0	0	0	1	2	—	—	—	—	—		
King's Co.	Birr Castle	18—7	7	175	73.0	54.6	63.8	+5.0	86	12th	45	1, 2, 4	63.7	59.4	4.01	102	+27	34	28th	17	10	0	0	0	1	3	0	6.39	+1.74	39		
Queen's Co.	Mountmellick	9 9 9	252	74.3	53.8	64.1	—	87	12th	47	4, 24	—	—	6.65	169	—	68	28th	14	11	—	—	—	—	—	—	—	—	—	—		
Kilkenny.	Kilkenny	9 9 9	195	75.5	54.5	65.0	+5.6	86	10, 12	45	5, 24	—	—	3.60	91	+19	44	28th	14	10	0	0	0	2	0	—	—	—	—	—		
Waterford.	Waterford	9 9 9	137	74.6	56.5	65.6	+5.8	84	11, 13	47	24th	—	—	4.53	115	+34	55	28th	10	9	—	—	—	—	—	—	—	—	—	—		
	Gortmore	21 21 9	16	73.8	55.4	64.6	—	84	13th	43	5th	—	—	4.83	123	—	64	28th	9	9	0	0	0	1	4	—	—	—	—	—		
	Training Col.	21 21 9	542	74.0	54.7	64.4	—	85	11th	45	3rd	—	—	5.53	141	—	49	14th	12	9	0	0	0	2	3	0	0	8.10	—	50		
	Seskin, Carrick-on-Suir.	21 21 9	542	74.0	54.7	64.4	—	85	11th	45	3rd	—	—	5.53	141	—	49	14th	12	9	0	0	0	2	3	0	0	8.10	—	50		
Limerick.	Foynes	9 9 9	50	72.6	56.6	64.6	+5.5	87	12th	49	1, 3	—	—	4.31	109	+31	17	27th	17	14	—	—	—	—	—	—	—	—	—	—		
	Mungret	9 9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	College	9 9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Kerry.	Killarney	9 9 9	174	75.2	57.5	66.4	+7.0	90	12th	47	2nd	—	—	3.79	96	+12	28	27th	14	12	—	—	—	—	—	—	—	—	—	—		
	Cahiriveen	24 24 24	30	69.4	57.2	63.3	+4.5	80	12th	47	4th	—	—	4.14	105	+9	21	28th	18	13	0	0	0	0	0	0	0	6.63	+1.50	41		
	(Val. Obs.)	24 24 24	30	69.4	57.2	63.3	+4.5	80	12th	47	4th	—	—	4.14	105	+9	21	28th	18	13	0	0	0	0	0	0	0	6.63	+1.50	41		
Cork.	Ballinacurra	9 9 9	24	72.1	55.0	63.6	+3.8	81	11, 18	45	4, 24	—	—	3.20	81	+10	25	28th	11	8	0	0	0	1	1	—	1	7.91	+2.14	49		
	Roche's Pt.	18—7	7	32	70.0	58.1	64.1	+4.9	79	18, 19	50	3, 24	—	—	3.54	90	+17	27	28th	16	9	0	0	0	0	4	—	—	—	—		
11. ENGLISH CHANNEL.																																
Guernsey.	Grange	21 21 9	295	72.5	58.0	65.3	+4.0	82	11th	51	6th	70.6	65.3	0.63	16	—40	11	28th	8	3	0	0	0	3	6	0	1	10.04	+1.91	64		
	Villa Carey	8 8 8	180	73.8	57.8	65.8	+3.9	85	11th	51	1st	—	—	0.62	16	—38	10	28th	8	5	0	0	0	0	2	—	2	9.84	+1.78	62		
Jersey.	St. Aubins	18—7	7	25	74.5	59.4	67.0	+4.6	87	10th	50	3, 22, 30	—	—	0.66	17	—36	8	28th	6	5	0	0	0	2	0	—	—	—	—		
Scilly.	St. Mary's	18—7	7	131	71.1	59.3	65.2	+4.7	82	11th	55	2, 4, 5, 6	—	—	0.81	21	—35	9	28th	11	6	0	0	0	0	0	—	0	9.71	+1.77	61	
Gibraltar	...	7 7 7	44	81.0	67.7	74.4	—0.5	86	23, 25, 30, 31	62	16th	—	—	0.00	0	—2	0	0	0	0	0	0	0	0	0	0	—	—	—	—		
Malta	...	18 7 7	195	84.6	73.3	79.0	—	99	20th	70	7, 8, 12	—	—	0.00	0	—	0	0	0	0	0	0	0	0	0	0	—	—	—	—		

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
JULY, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	9.95	+2.69	62
Hove ..	8.93	—	56
Watergate ..	8.92	—	56
LONDON, Bunhill Row	7.96	+2.15	50
Regent's Park	8.18	—	51
Plumstead ..	7.63	—	47

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	68	58	64.0	+3.1

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used except, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure,

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JULY, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of		Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
								Dry Bulb			Depression of Wet.			Vapour Pressure.			Humidity.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
0. SCOTLAND, N.				ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JULY, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
3. ENGLAND, E.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	%	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			</

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of JULY, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10)			WIND.													
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of		Number of Observations adjusted to a total of 93 for the month.													
							Dry Bulb			Depression of Wet.			Vapour Pressure.			Humidity.				Clear Sky.	Overcast.	Force (0-12).			Direction.										
							I	II	III	I	II	III	I	II	III	I	II	III				I	II	III	8 or more.	4-7.	Calm.	N	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	999.4	—	16.8	61.7	—	58.9	4.3	—	3.4	14.2	—	13.7	77	—	82	6.2	—	6.3	2	9	0	18	0	9	8	0	3	25	36	6	6	
Lancashire.	Blackpool H	9,-,-	73	015.1	—	17.4	64.5	—	—	4.7	—	—	15.3	—	—	75	—	—	6.5	—	—	—	0	27	27	1	2	16	8	1	17	12	9		
	Darwen H	9,-,21	730	991.0	—	17.1	63.4	—	60.6	5.9	—	4.0	13.5	—	13.9	69	—	78	6.6	—	6.3	0	9	0	17	0	0	3	3	7	17	7	39	17	
	Leyland H	9,15,-	—	—	—	—	64.8	70.4	—	5.7	9.0	—	14.3	14.4	—	70	57	—	6.9	6.0	—	5	12	0	27	0	14	12	4	4	1	3	17	38	
	Southport H	9,15,21	42	016.0	—	17.5	65.5	68.4	62.0	5.9	6.8	3.4	14.8	15.4	15.2	69	67	81	6.2	5.5	5.9	6	10	0	38	6	5	1	10	8	4	15	16	28	
	Stonyhurst ...	9,-,21	363	004.5	—	17.5	64.4	—	61.4	5.8	—	3.9	14.1	—	14.2	68	—	78	6.6	—	7.0	1	15	0	12	3	4	11	12	0	4	17	33	9	
Liverpool.	Bidston ...	9,-,21	202	010.1	+2.7	17.3	64.7	—	62.8	5.8	—	3.9	14.2	—	15.0	69	78	5.1	—	5.7	3	7	0	20	8	0	1	9	11	4	18	20	22		
Manchester.	Whitworth PkH	9,-,21	127	012.8	—	17.1	64.8	—	66.0	3.5	—	3.3	16.6	—	17.6	81	—	82	6.3	—	6.3	7	13	0	11	15	6	4	10	9	17	8	15	9	
	Oldham Rd. H	9,-,21	195	010.7	—	17.5	64.8	—	65.4	5.7	—	5.6	14.7	—	15.0	70	—	70	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Alex. Park ...	7,13,18	99	013.8	—	17.4	60.5	72.4	70.0	3.9	11.4	9.5	13.7	13.4	13.7	78	50	55	5.9	8.0	6.8	2	12	0	27	1	1	3	12	8	9	19	23	17	
Anglesey.	Holyhead ...	7,13,21	25	016.1	+2.4	17.0	60.5	65.9	60.2	1.0	3.1	0.7	16.7	17.7	16.9	94	82	96	7.0	6.4	5.8	4	12	0	40	1	15	5	9	7	16	24	3	13	
Carnarvon.	Llandudno ...	9,-,21	21	016.9	—	17.4	65.0	—	62.2	5.2	—	3.7	14.9	—	14.9	72	—	79	6.4	—	5.8	7	12	0	17	0	6	7	18	3	14	15	27	3	
8. ENGLAND, S.W.																																			
Pembroke.	St. Ann's Head	7,13,21	150	012.3	+3.0	18.1	61.0	65.1	61.4	1.7	2.8	1.5	16.3	17.6	16.7	90	84	91	5.2	5.5	5.2	7	9	0	18	13	8	5	5	17	7	15	12	11	
Glamorgan.	Cardiff ...	9,-,21	216	010.2	—	17.8	67.9	—	65.3	6.9	—	6.2	15.0	—	14.1	64	—	68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Somerset.	Bath ...	9,-,-	84	014.8	+1.7	17.6	69.0	—	—	7.1	—	—	15.3	—	—	65	—	—	4.2	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dorset.	Holton Heath	9,15,-	58	016.1	—	18.3	67.8	72.8	—	6.8	9.9	—	15.2	15.1	—	66	57	—	5.5	4.5	—	10	7	0	60	2	10	2	18	14	15	10	12	10	
	Portland Bill	7,13,21	37	017.0	+2.3	18.5	63.0	66.1	63.4	2.7	3.1	2.7	16.4	17.9	16.6	84	82	84	3.5	3.5	5.0	8	3	0	36	9	3	14	15	2	3	23	19	5	
Devon.	Cullompton ...	9,-,-	—	—	—	—	69.2	—	—	6.4	—	—	16.2	—	—	66	—	—	5.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Killerton ...	9,15,-	—	—	—	—	68.8	78.0	—	4.4	4.0	—	18.0	25.9	—	76	79	—	3.3	2.6	—	15	0	—	15	0	3	3	3	3	30	21	24	6	
	Plymouth H	9,15,21	116	013.9	—	17.9	68.9	69.9	64.4	6.2	7.2	4.0	16.3	15.8	15.8	70	66	78	4.9	4.5	4.8	8	8	1	26	5	12	7	5	8	11	34	6	5	
	(The Hoe)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	(Cattewater)	7,13,21	47	017.7	—	18.5	62.4	68.3	63.9	3.1	5.5	3.5	15.6	16.6	16.1	82	71	79	5.3	6.0	4.7	8	9	0	18	13	11	7	10	7	16	17	4	8	
	Princetown ...	9,15,-	1360	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Sheepstor H	9,15,21	730	992.0	—	18.0	66.5	70.1	58.0	5.5	7.9	1.7	15.8	15.5	14.8	72	65	90	4.0	4.6	3.7	12	8	3	49	13	10	5	11	8	17	17	5	7	
Cornwall.	Falmouth H	7,13,18	183	011.6	+1.5	18.2	63.6	70.4	68.6	3.0	6.6	5.5	16.5	16.8	16.8	83	69	74	5.2	4.7	4.1	11	6	0	28	1	12	4	6	18	13	16	5	18	
	Newquay ...	9,-,18	161	012.2	—	18.1	66.7	—	66.8	4.6	—	3.4	16.6	—	18.0	75	—	81	5.1	—	4.5	9	9	0	17	1	22	5	5	14	10	15	6	15	
	Redruth H	9,15,-	397	—	—	—	67.1	—	—	5.6	—	—	15.8	—	—	72	—	—	4.9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
9. IRELAND, N.																																			
Sligo.	Markree Castle	9,-,21	127	012.0	—	16.4	63.1	—	60.5	3.7	—	3.2	15.3	—	14.4	78	—	81	7.7	—	6.8	2	14	0	6	21	16	2	2	9	21	6	6	10	
Mayo.	Blacksod Point	7,13,21	30	014.0	+0.9	15.1	59.8	64.9	60.5	2.3	4.2	2.5	15.0	15.9	15.1	86	77	85	7.6	7.5	6.6	1	15	0	13	9	12	6	0	13	3	34	8	8	
Donegal.	Malin Head ...	7,13,21	230	—	—	—	57.6	61.0	57.6	0.8	1.2	0.6	15.2	16.8	15.4	95	93	96	7.7	7.0	7.2	0	12	0	18	4	5	5	13	8	9	19	18	12	
Down.	Donaghadee ...	7,13,21	26	015.7	+2.7	16.6	58.0	62.8	58.1	2.2	4.5	2.5	14.1	14.4	13.8	86	75	84	7.7	6.8	5.4	2	8	0	3	10	13	9	10	8	8	21	12	2	
Armagh.	Armagh H	9,-,21	209	009.0	—	16.3	62.9	—	59.6	4.0	—	2.7	15.1	—	14.7	78	—	84	7.2	—	5.2	3	8	0	5	40	2	3	1	7	12	22	2	4	
10. IRELAND, S.																																			
Dublin.	Baldonnell ...	7,13,21	282	006.7	—	16.9	59.8	69.1	61.4	2.5	6.8	3.2	14.8	15.8	14.9	85	65	81	7.5	7.4	7.0	1	14	1	19	10	1	3	19	7	12	20	15	6	
	City ... H	9,-,21	53	014.8	—	16.7	63.1	—	63.1	4.2	—	4.1	14.8	—	15.1	77	—	78	6.7	—	5.2	6	11	0	12	4	1	10	21	9	3	17	17	11	
	Glasnevin H	9,-,21	56	015.1	—	16.9	64.1	—	62.9	4.9	—	4.1	14.8	—	15.1	73	—	78	7.4	—	6.4	1	8	0	15	7	1	17	6	10	5	17	6	24	
	Phoenix Pk. H	9,-,21	159	011.3	—	16.8	64.6	—	61.1	5.1	—	2.8	15.1	—	15.4	74	—	84	7.7	—	6.6	0	10	0	8	30	4	4	8	6	5	12	14	10	
	Trin. Coll. H	9,-,21	17	016.4	—	16.9	65.2	—	62.9	4.6	—	3.6	15.7	—	15.3	75	—	79	7.2	—	4.9	4	9	0	14	30	0	0	6	15	1	15	21	5	
	Ranelagh ...	9,-,21	74	014.1	—	16.6	64.7	—	62.3	4.5	—	3.5	15.4	—	15.1	75	—	79	6.7	—	4.6	6	11	0	33	1	14	20	13	9	4	15	9	8	
King's Co.	Birr Castle ...	7,13,18	173	009.8	+1.3	16.2	59.1	70.5	70.1	1.1	4.5	4.7	15.8	19.3	18.7	93	75	75	7.6	7.8	7.5	0	13	0	1	0	2	1	1	19	8	17	25	20	
	Seskin, Carrick-on-Suir.	9,-,21	522	998.4	—	17.0	65.2	—	61.9	4.5	—	3.5	15.8	—	14.9	76	—	79	5.6	—	5.5	6	7	0	5	9	6	1	0	4	20	18	15	20	
Limerick.	Mungret Coll.	9,15,-	65	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Cahiriveen H	9,15,21	45	015.3	+1.3	16.8	65.3	67.6	62.8	4.5	5.5	3.1	16.1	16.4	16.0	76	72	82	6.9	6.2	6.5	6</													

TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, JULY, 1921.

DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.				Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.				Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.				Total Fall.	Percentage of Normal.										
		ft.	in.	mm.	%					ft.	in.	mm.	%					ft.	in.	mm.	%												
O. SCOTLAND, N.																						2. ENGLAND, N.E.—cont.				8a. SOUTH WALES.							
Caith.	Thurso (Buckies) ...	240	2'29	58	—			Yk..	Holme-upon-Spalding-Moor	35	0'77	20	—			Rad.	B'm'gham W.W. (Tyrmynydd)	832	2'33	59	57												
Suth.	Dornoch (St. Gilbert's) ...	35	2'35	60	—			E.R.	Lowthorpe (The Elms)	63	0'95	24	42			Card.	Aberystwyth (Gogerddan) ...	83	1'83	47	47												
	Loch More (Achfary) ...	167	6'43	163	720			Linc.	Boston (Black Sluice)	11	0'42	11	19				Devil's Bridge ...	825	3'18	81	—												
	Melvich Schoolhouse ...	—	2'15	55	77				Grantham (Saltersford)	188	0'29	7	—				Lampeter (Falcondale)	498	2'43	62	—												
	Tongue Manse ...	180	2'55	65	83				Horncastle ...	110	0'34	9	—				Tregaron (Maes-y-bettws)	910	4'20	107	—												
R. & C.	Alness (Ardross Castle)	450	2'94	75	97				Louth (Westgate) ...	120	0'30	8	12				Carm.	Carmarthen (The Friary)	62	2'94	75	—											
	Loch Carron (Plockton)	4	3'68	93	—												Brec.	Cardiff, W.W. (Beacons Res.)	1340	5'55	141	—											
	Loch Torridon (Bendamph)	20	4'92	125	91													Crickhowell (Tal-y-maes)	1250	2'00	51	—											
Inv.	Arisaig (Faire-na-Sguir)	130	4'30	109	—			3. ENGLAND, E.									Glam.	Port Talbot (Twyn-yr-hydd)	180	1'65	42	—											
	Cluny Castle ...	900	2'67	68	—			Norf.	Aylsham (Rippon Hall)	90	0'40	10	—					Treherbert (Tyn-y-waun)	801	5'14	131	—											
	Drumnadrochit ...	138	—	—	—				Swaffham ...	250	1'75	44	68																				
	Loch Arkaig (Achnacarry)	120	5'38	137	—				Thetford (Waterworks)	170	0'92	23	—																				
	Loch Quoich (Glenquoich)	569	8'91	226	139			Suff.	Halesworth Rectory	50	0'31	8	—																				
	" (Loan)	650	12'80	325	—				Hawkesdon Rectory	305	0'40	10	16																				
	N. Ballachulish (Alltshellach)	80	—	—	—				Chatteris (The Priory)	45	0'16	4	—																				
	Skye (Dunvegan)	47	3'39	86	—			Cambs.	Ashwell (Odsey)	256	0'20	5	—																				
	" (Portree)	65	3'64	93	—				Parson Drove (Clows Cross)	13	0'20	5	—																				
								Essex.	Elsenham (Gaunts End)	363	0'26	7	—																				
									Lexden (Hill House)	90	0'26	7	—																				
1. SCOTLAND, E.																						4. MIDLAND COUNTIES.				8p. ENGLAND, S.W.							
Moray.	Grantown-on-Spey ...	700	2'25	57	73			Yk..	Wath-upon-Dearne (Chapel St.)	188	—	—	—			Mayo.	Aasleagh House ...	30	5'42	138	—												
	Lhanbryde (Blackhills House)	300	2'85	72	—			W.R.	Wetherby (Ribston Hall)	130	2'05	52	82				Crossmolina (Enniscoe)	74	3'48	88	96												
Aber.	Aberdeen (Cranford House)	120	1'69	43	57			Derby.	Mickleover Manor ...	280	0'68	17	28				Delphi Lodge ...	110	6'16	157	—												
	Fyvie Castle ...	200	1'69	43	—				Whaley Bridge (Mosley Hall)	760	1'42	36	—				Westport House ...	35	2'51	64	—												
	Logie Coldstone (Loanhead)	743	1'91	49	66			Notts.	Mansfield (West Bank)	405	0'60	15	—				Ballynahinch Castle ...	41	4'00	102	—												
	Peterhead (Forehill Works)	133	1'65	42	—			Rutl.	Uppingham (Ridlington)	527	0'37	9	—				Galway (Grammar School)	60	3'93	100	—												
Kinc.	Brechin (Trinity) ...	295	2'29	58	—				Pitsford (Sedgebrook)	311	0'27	7	11				Woodlawn ...	300	4'00	102	115												
Forf.	Glen Prosen (Pearsie House)	600	3'34	85	—				Wellington (Swanspool)	155	0'20	5	9				Don.	Killybegs (Rockmount)	65	4'34	110	99											
	Montrose (Sunnyside Asylum)	200	1'83	47	70				Farnborough ...	515	0'39	10	15					Letterkenny (District Asylum)	183	3'11	79	89											
Perth	Aberfeldy (Dall Avon)	320	3'02	77	—				Oxford (Magdalen College)	186	0'20	5	8					Milford (The Manse) ...	150	2'59	66	78											
	Balquhider (Stronvar)	422	—	—	—				Oving House ...	515	0'35	9	—					Narin (Kiltourish) ...	—	3'41	87	—											
	Blair Atholl ...	—	2'68	68	106				Lichfield (St. John Street)	269	0'40	10	—					Derry.	Londonerry (Creggan Res.)	320	3'55	90	97										
	Coupar Angus ...	183	2'18	55	92				Salop.	Church Stretton (Wolstaston)	800	1'15	29	47					Ant.	Ballymena (Harryville)	150	4'63	118	135									
	Glen Devon (Glenquey Res.)	945	4'20	107	—				Shifnal (Hatton Grange)	262	0'78	20	35						Belfast (Cave Hill Road)	200	3'64	93	—										
	Killin (The Manse) ...	400	4'27	109	—				Barn Green (Upwood)	650	0'55	14	—						Glenarm Castle ...	70	3'26	83	—										
	Kirkmichael (Ballintuin Ho.)	700	3'61	92	—				Blockley (Upton Wold)	800	0'56	14	23						Tyrone.	Omagh (Edenfel)	280	4'28	109	126									
	Loch Dhu ...	325	6'00	152	124				Bromyard (Rowden Abbey)	450	0'72	18	—							Sion Mills (Sion House)	100	3'78	96	—									
	Loch Rannoch (Dall)	772	2'46	63	—				Ledbury (Underdown)	307	0'40	10	—						Down.	Banbridge (Milltown) ...	200	4'83	123	148									
	Loch Venacher ...	275	4'60	117	114				Cirencester (Dollarward Ho.)	366	0'55	14	22							Mourne Mts. (Fofanny Res.)	938	6'78	172	—									
Midl.	Balerno (Cockburn Hill)	767	2'12	54	—				Clifton (Stoke Bishop)	243	0'87	22	—								Seaforde ...	180	4'78	121	150								
Had.	North Berwick Reservoir	150	2'19	56	85																Warrenpoint (Clonallon)	15	3'79	96	—								
Selk.	Ettrick Manse ...	796	4'62	117	—																Fer.	Enniskillen (Portora) ...	251	4'83	123	—							
	Selkirk (The Hangingshaw)	670	—	—	—																Long.	Ballymahon (New Castle)	250	3'58	91	—							
Rox.	Hawick (Bransholme)	457	2'94	75	97																W.M.	Mullingar (Belvedere) ...	367	3'78	96	119							
	Jedburgh (Jedneuk)	270	2'13	54	75																Meath.	Drogheda (Mornington)	100	4'03	102	—							
6. SCOTLAND, W.																						5. ENGLAND, S.E.				10. IRELAND, S.							
Arg.	Dalmally (Manse of Glenorchy)	150	6'76	172	—			Mid.	Harrow Weald (Hill House)	284	0'15	4	—									Dublin.	Balbriggan (Ardgillan)	211	4'05	103	149						
	Eriska (Ledaig) ...	30	5'07	129	—			Kent.	Sevenoaks (Speldhurst Close)	470	0'29	7	—										Rathmines (Harold's Cross)	155	4'07	103	—						
	Inveraray Castle Gardens	40	4'19	106	84				Tenterden (Ving Tower)	190	0'29	7	14									Wick.	Rathnew (Clonmannon)	27	4'79	122	—						
	Islay (Eallabus) ...	68	3'84	97	113				Reigate (Hartswood)	174	0'21	5	—									Q. Co.	Abbey Leix (Blandsfort)	532	5'41	137	173						
	Mull (Quinish) ...	35	3'99	101	99				Hailsham Vicarage ...	105	0'43	11	19									Car.	Hacketstown Rectory ...	600	2'93	74	—						
	Poltalloch ...	132	4'76	121	116				Patching Farm ...	180	0'33	8	14									Wex.	Gorey (Courtown House)	60	3'97	101	135						
Bute.	Dougarie Lodge ...	10	3'93	100	—				Upton Nervet Rectory	308	0'18	5	—											Tramore (Midvale) ...	115	5'84	148	—					
Dumb.	Arrochar (Glen Loin) ...	50	6'15	156	—				Ashley (Old Manor House)	235	0'68	17	—											Waterford (Brook Lodge)	104	4'62	117	143					
Lank.	Biggar ...	691	3'17	81	—				Fordingbridge (Oaklands)	135	0'58	15	29											Cashel (Ballinamona) ...	257	5'26	134	—					
Glas'w.	Queen's Park ...	114	3'34	85	114				Devizes (Highclere) ...	480	0'42	11	—											Clonmel (Bruce Villa) ...	110	4'85	123	—					
Ayr.	Girvan (Pinnore) ...	207	4'70	119	129																			Nenagh (Castle Lough)	120	3'78	96	120					
	Maybole (Knockdon Farm)	352	4'74	120	—																				" (Traverston) ...	330	4'83	123	—				
	New Cumnock (Ayr Sanat'm)	850	—	—	—																				Roscrea (Timoney Park)	475	4'91	125	—				
Dumf.	Durrisdeer (Drumlanrig)	191	3'31	84	—																				Broadford (Hurdlestown)	167	4'32	110	—				
	Hoddam Castle ...	150	—	—	—																					Ennistymon House ...	37	3'72	95	99			
	Langholm (Drove Road)	270	4'97	126	—																					Inagh (Mount Callan) ...	479	5'55	141	—			
	Moniaive (Maxwelton House)	400	5'52	140	—																					Newmarket-on-Fergus (Carri-	86	5'01	127	—			
Kirk.	Carsphairn (Shiel) ...	850	6'38	162	—																												
Wigt.	Stoneykirk (Ardwell House)	65	4'20	107	145																												
2. ENGLAND, N.E.																						7a. ENGLAND, N.W				10. IRELAND, S.							
Nor'd.	Ilderton (Lilburn) ...	340	2'65	67	114			Cumb.	Borrowdale (Seathwaite)	423	6'85	174	81												Dublin.	Castleconnell Rectory ...	88	4'65	118	—			
	Newcastle (Town Moor)	201	1'65	42	62			West.	Orton ...	770	3'71	94	—													Darrynane Abbey	13	3'96	101	116			
Yk..	Mickleton (Lime Kiln Pasture)	1175	1'40	36	50			Lancs.	Garstang (Holme H., Bleasdale)	650	2'23	57	—													Gap of Dunloe (Gearahameen)	75	6'90	175	—			
N.R.	Pickering (Hungate Hall)	90	1'41	36	—				Grange-over-Sands (Holmeroft)	330	2'17	55	—													Valentia Is. (Glanleam)	75	3'98	101	106			
	Scarborough (Scalby)	300	1'63	41	—				Lancaster (Strathpey)	87	1'52	39	—														Caheragh (The Rectory)	98	4'36	111	—		
									Nantwich (Dorfold Hall)	190	0'64	16																					

Country		Area (sq. miles)		Population (millions)		GDP (billions of dollars)		Per capita income (dollars)	
Africa		30,355,000		360.0		100.0		277.8	
Asia		17,212,000		1,200.0		200.0		166.7	
Europe		3,839,000		210.0		150.0		714.3	
Latin America		10,833,000		200.0		50.0		250.0	
Middle East		2,970,000		100.0		20.0		200.0	
North America		9,529,000		200.0		100.0		500.0	
Oceania		2,970,000		10.0		10.0		1,000.0	
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MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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AUGUST, 1921; UNSETTLED.

Conditions were generally unsettled throughout the month with depressions from the Atlantic crossing the British Isles. Temperature was considerably lower than in July.

In the north and west of the British Isles rainfall was large, but in the south-east of England it was again below normal, being much less than might have been expected from the distribution of pressure. Between the 1st and the 5th pressure was lowest near the Farøe Islands and small secondaries moved north-eastward over the British Isles. Heavy rain fell in the western districts on the 1st and again on the 5th, several stations having 20mm. or more. A south-west gale was experienced on parts of the south-west coasts on the night of the 5th. Thunderstorms occurred rather widely on the 2nd and 3rd, associated with a very low temperature in the upper air; the reading at 13,600 ft. at Baldonnel (Dublin) on the evening of the 2nd was 259a, or 10a below the normal, this being accounted for by a cold northerly current over Iceland, which curved round the stationary depression over the Farøe Islands. August 3rd, when thunderstorms occurred in south-east England, was the coolest day in that region since July 5th, yet there had been no thunder during the warm interval except very locally on July 17th. A secondary which brought very heavy rain to the western districts on the 5th developed into an independent centre and moved north-east to the Gulf of Bothnia, but further secondaries continued to cause unsettled weather. A shallow depression moved slowly south-eastward over the British Isles between the 9th and 11th, then passing north-eastward to Denmark. Heavy rain and thunder occurred locally in the British Isles, but no rain fell in south-east England until the 13th. At Pulham (Norfolk) there was a severe thunderstorm during the afternoon of that day in which 75mm. fell in eighty minutes. Lowestoft had 52mm. of rain the same afternoon. An anticyclone, which extended northward from the Azores, caused a temporary improvement in the weather over the British Isles on the 14th and 15th, but a depression developed off the north-west of Ireland on the 16th, renewing unsettled weather. Rain fell generally except in the extreme east of England, being heaviest in the south of Scotland. A ridge of high pressure formed over our islands bringing fine weather on the 18th and 19th; these were the hottest days of the month with temperatures exceeding 300a at several stations. The previous depression, which had passed to the south of France, returned on the 20th with overcast weather, heavy local rain and thunder. From the 25th to the end of the month a westerly type of weather again prevailed, mainly fair in Southern England, but with rain in the northern districts. A depression which formed off the west of Ireland on the 28th moved eastward giving heavy falls of rain along its track, notably in north-east England and south-west Scotland. Howden had 27mm. of rain during a thunderstorm on the 28th, and Tynemouth had 44mm. on the 29th. South-east England practically escaped rain from this depression. A cold northerly current extended in its rear; the screened thermometer fell to 277a at Valencia on the night of the 29th and to 272a at Eskdalemuir and South Farnborough on the night of the 30th. On the 31st a depression off the west of Ireland caused a warmer southerly current, with rain in the western districts.

In London (Camden Square) the conditions were generally fair or fine but with a good deal of cloud and occasional showers. The mean temperature (290.6a) was 0.7a above the average, this being the twelfth successive warm month.

Fog was persistent on the north-east coasts from the 18th to the 23rd extending as far south as Yarmouth at intervals from the 21st to the 24th. The Irish Sea was covered by thick fog on the 19th. Visibility was mainly good everywhere for the remainder of the month.

In Scotland temperature was in general moderate to rather low, with ground frost in various districts at the end of the month. Warm weather was, however, experienced during the first day or two and also from the 18th to the 20th. On the latter date a temperature of 299a was recorded at Ruthwell. At Braemar, Balmoral and West Linton on the night of the 29th and at Eskdalemuir on the night of the 30th the minimum in the screen was only 272a. It is noteworthy that the month was the first in 1921 with a mean temperature below the normal and that so low a mean daily range has seldom been recorded in August. The unsettled conditions which had set in about July 21st persisted throughout August with but slight breaks. There were various rather heavy falls of rain; the heaviest general falls were associated with a thunderstorm type of conditions on the 16th and 20th. On the latter date Grantown-on-Spey had 43mm. The total rainfall was deficient in the north-east and north-west districts, but elsewhere there was an excess, amounting to 50 per cent. or more, e.g., at Perth, Paisley, Kelso and Dumfries. Thunderstorms occurred in many districts on the 16th, 20th, 21st and locally on other dates. Sunshine amounts were generally deficient in all districts, by as much as one hour per day in Edinburgh and Marchmont. Fog and mist were prevalent during the third week.

In Dublin the month was cloudy with frequent showers and fresh westerly and north-westerly winds. The mean temperature was 1.0a below the normal. Rainfall was about 12mm. less than the average but the number of raindays, 23, was large.

During the first ten days of the month the weather in France and Germany was mainly fine and hot, but there were heavy local thunderstorm rains on the night of the 3rd, Berlin having 80mm. Forest fires and the destruction of mills and farms in France were still being reported daily, the largest being

that of the forest of Vorey-sur-Azon, which at one time threatened the towns of Vorey and Bellevu. Great heat was also experienced in Italy. A tornado swept over the Montreux district (Lake of Geneva) on the evening of the 3rd. The shallow depression which lay over the British Isles on the 10th expanded over a large area and cooler unsettled weather became general, with heavy rain and thunder in many places. Temperature remained high in Poland until the 12th, reaching 310a in Warsaw on that date. It was colder subsequently, the maximum at Warsaw on the 14th being only 289a. A fresh centre of low pressure developed over this area on the 12th and moved northwards to the Baltic after which it turned westward and grew deeper, being centred over the Skagerrak on the 15th. There were gales in the Baltic and north-east part of the North Sea, also heavy rain near the centre. The disturbance filled up rapidly on the 16th. Hailstorms of exceptional violence occurred on that day in Bavaria and Württemberg, doing extensive damage. On the same day a violent storm damaged Doua Wireless Station near Lyons, suspending communication with America and the Far East. Snow fell on the mountains in Savoy on the 15th. Heavy rains and thunderstorms were renewed in France and Switzerland between the 17th and the 24th. On the 18th there were 94mm. at Perpignan, on the south coast of France, and 98mm. at Sanguinaire in Corsica. On the 22nd there were 135mm. at Lugano in Switzerland. Snow also fell in various parts of the Alps. There was fine weather in France and Central Europe at the end of the month.

The weather in the British Isles has presented few outstanding features during the month. Notes by observers which formed an important feature on the returns received in the preceding months were few and might well be summed up in the remarks of one observer "There has been nothing extraordinary."

Air Pressure.—The general distribution of pressure was in accordance with the normal, ranging from 1010mb. in the north of the kingdom to 1015mb. in the south. Two depressions which appeared off the north-west of the British Isles on the 9th and 16th respectively, subsequently pursued remarkably erratic paths. The former (see Map track D) passed across the south of Scotland on the 10th to Southern Scandinavia and after many fluctuations eventually travelled away to the north. The latter (see Map track F) which appeared off the north-west of Ireland on the 16th passed from north to south across Ireland to northern Spain. Subsequently it travelled back to eastern England where it dispersed on the 23rd of the month. At the telegraphic reporting stations the departure of the monthly means from the normal varied from +1.0mb. at Nairn to -1.9mb. at Nottingham. The highest reading recorded during the month was 1026mb. at Blacksod Point on the 18th, and the lowest 993mb. at Nairn on the 6th, at Blacksod Point on the 16th, and at Aberdeen on the 27th.

Temperature.—The mean temperature of the month was above the normal in all districts in England and Wales with the exception of England North-west which did not differ from the normal. In all districts in Scotland and Ireland the mean temperature was below the normal. The difference ranged from +1.2a in England East to -0.8a in Scotland East.

Precipitation.—In the south-east of England generally the deficiency of rain which characterized the spring and summer months continued throughout August. Precipitation was also below the normal over the northern half of Scotland, and in the north and centre of Ireland. The area with deficiency over the British Isles was approximately equal to that with excess. More than twice the average occurred locally near Newcastle, where the heavy rainfall of 50mm. on the 29th was the heaviest recorded in one day since 1913. Small areas in the south-east of England received less than 25mm. of rain during the month. Areas with less than 75mm. were confined to the south-east of a line from Cardiff to Boston, locally in the east of Scotland, and in the neighbourhood of Dublin. There was an unusually large area with rainfall exceeding 150mm. This comprised the greater part of Wales, the south-western half of Scotland, considerable areas in the north of England, and mountainous regions in the west of Ireland. More than 250mm. fell in the usually wet areas of the kingdom, as much as 635mm. in the Lake District. Several heavy falls in short periods were recorded during the numerous thunderstorms which occurred. During a remarkably heavy fall at Milton, near Peterborough, 49mm. fell in 65 minutes. The general rainfall of August, expressed as a percentage of the normal, was: England and Wales 115; Scotland 106; Ireland 108; British Isles 110.

Sunshine.—With the exception of Scotland North, where there was a slight excess (0.09 hr.), insolation was below the normal in all districts. The deficiency ranged from 0.18 hr. per day in England East to 1.25 hr. per day in England South-west.

Optical Phenomena.—Solar halos were frequently observed at various stations. The phenomenon was most widespread on the 4th. Lunar halos were observed at Ross-on-Wye on the 16th and 20th and at Oxford on the 22nd. A parhelia was observed at Aberdeen on the 8th. Aurora was observed at Baltasound on the 12th.

Note.—The article by Capt. C. K. M. Douglas in the Meteorological Magazine for September has been utilized in the preparation of this summary.

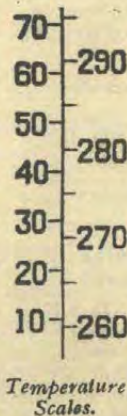


TABLE I.—DISTRICT VALUES—AUGUST, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL.			
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean.	Devia- tion from Nor- mal.	Per cent.	I.	II.	III.	High- est	Date.	Low- est	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Nor- mal.																		
°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.			
0. SCOTLAND, NORTH ...	75	33	200+ 88.2	200+ 81.8	200+ 85.0	-0.6	86.3	—	—	—	3.17	80	- 26	20	3.78	+0.09	25	8.1	7.6	8.3	1025	18	988	27
Eastern.																								
1. SCOTLAND, EAST ...	77	30	88.9	81.8	85.4	-0.8	87.1	—	86.1	-0.6	3.85	98	+ 18	21	4.00	-0.70	27	7.6	7.7	8.2	1025	18	993	6,27
2. ENGLAND, N.E. ...	83	34	91.3	84.4	87.9	+0.3	88.7	+0.3	87.7	+0.7	3.82	97	+ 31	19	4.52	-0.75	31	7.3	8.0	7.7	1024	18, 19, 21	996	6
3. ENGLAND, EAST ...	84	35	94.1	85.5	89.8	+1.2	90.5	+0.6	89.3	+0.8	1.36	35	- 21	12	5.87	-0.18	40	6.8	7.3	6.3	1025	31	1001	11
4. MIDLAND COUNTIES ...	83	31	92.8	84.4	88.6	+0.6	89.4	+0.6	88.3	+1.1	3.53	90	+ 25	16	4.64	-0.79	32	7.2	7.3	6.4	1024	30	1002	11
5. ENGLAND, S.E. ...	83	32	93.9	85.2	89.6	+0.5	90.7	+0.9	89.7	+1.5	1.42	36	- 23	12	5.80	-0.68	40	6.6	7.4	6.4	1025	31	1002	10, 11
Western.																								
6. SCOTLAND, WEST ...	79	30	89.9	82.9	86.4	-0.3	88.0	—	86.8	-0.2	5.95	151	+ 39	21	—	—	—	7.6	8.0	7.8	1024	18	997	6
7. ENGLAND, N.W. ...	80	35	90.7	84.4	87.6	0.0	88.9	+0.3	87.9	+0.7	4.91	125	+ 33	21	4.32	-0.87	29	7.5	7.9	7.5	1024	30	998	5
8. ENGLAND, S.W. ...	82	33	91.9	84.9	88.4	+0.2	90.3	0.0	89.7	+0.6	2.90	74	- 10	18	4.79	-1.25	33	6.8	7.1	5.8	1025	30, 31	1002	5
9. IRELAND, NORTH ...	72	37	89.4	83.4	86.4	-0.5	88.2	-0.4	87.4	+0.2	3.88	99	+ 1	25	3.30	-0.99	22	7.8	8.1	7.8	1026	18	993	16
10. IRELAND, SOUTH ...	79	36	90.9	84.2	87.6	-0.1	88.9	-0.1	88.1	+0.4	4.54	115	+ 17	24	4.40	-0.57	30	7.7	8.5	7.1	1025	18, 30	998	5
11. ENGLISH CHANNEL ...	76	47	92.6	86.7	89.6	+0.2	92.2	+1.4	91.6	+2.0	2.07	53	- 12	14	6.35	-1.20	44	7.2	6.5	5.6	1025	30	1003	17
Mean: DISTRICTS 1-10..	84	30	91.4	84.1	87.8	+0.1	89.1	+0.2	88.1	+0.5	3.62	92	+ 11	19	4.63	-0.75	32	7.3	7.7	7.1	1026	—	993	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

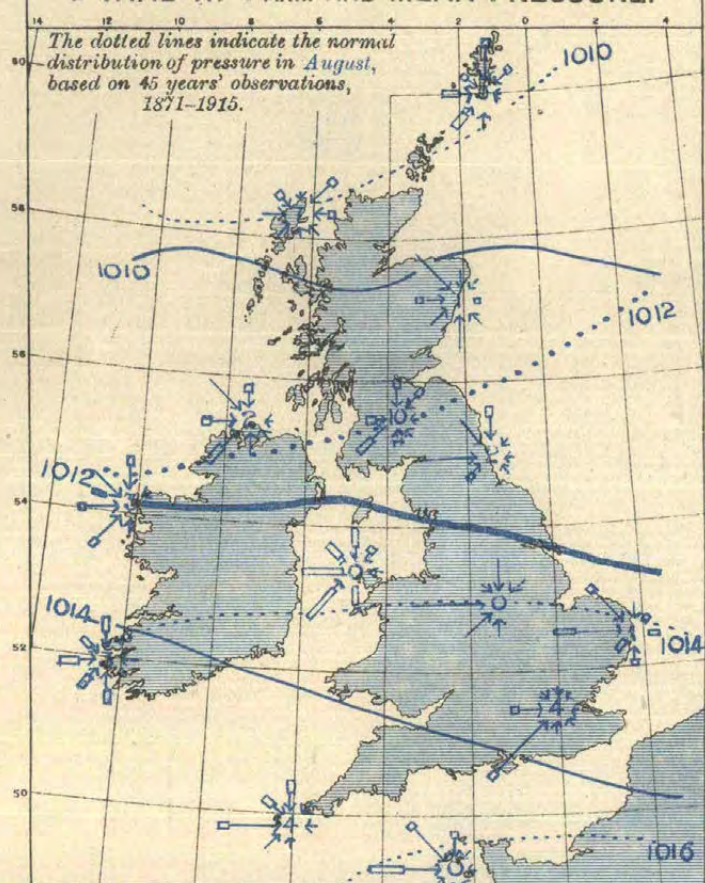
TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—AUGUST, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††										Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.							
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.		Date.						
													m/s.	d. h. m.							
ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s	d.	h.	m.			
0. SCOTLAND, N.																					
Deerness (Cup Anr.) ...	188	16	5	—	0	3	19	256	421	48	0	310	15	27	3	—	—	—			
1. SCOTLAND, E.																					
Dyce ...	305	75	15*	—	0	—	0	1	361	382	0	290	6	27	3	16	27	3 15			
Aberdeen (Cup Anr.) ...	120	72	12	—	0	—	0	67	575	101	0	300	10	6	16	—	—	—			
Balmakewan ...	140	25	18	—	0	1	1	98	456	189	0	30	11	21	3	19	21	4 20			
Rosyth ...	85	73	19	—	0	3	10	206	335	169	24	230	16	27	1	26	27	0 50			
Edinburgh ...	485	39	31	—	0	2	9	165	345	225	0	250	14	26	24	26	27	2 0			
6. SCOTLAND, W.																					
Eskdalemuir ...	825	50	22	—	0	2	11	158	328	247	0	260	15	27	4	25	27	2 30			
Paisley... ..	188	81	15	—	0	—	0	84	495	165	0	280	9	27	6	21	26	23 50			
2. ENGLAND, N.E.																					
Alnwick Castle ...	340	70	17	—	0	—	0	7	266	408	63	340	6	21	6	14	6	13 15			
South Shields ...	72	61	12	—	0	—	0	76	397	271	0	290	10	8	9	17	1	13 35			
Spurn Head ...	66	40	†	—	Instrument	dismounted.	—	—	—	—	—	—	—	—	—	—	—	—			
Cranwell ...	278	43	31	—	0	2	6	262	408	68	0	—	13	6	16	17	2	16 15			
Howdon ...	61	41	29	—	0	2	2	183	309	250	0	250 } 270 }	11	8 } 27 }	9	17	2	11 20			
3. ENGLAND, E.																					
Gorleston ...	52	42	†	—	0	3	8	275	389	72	0	250	12	2	13	18	6	1 45			
Felixstowe ...	58	40	23	—	0	2	3	260	447	34	0	210 } 220 }	11	2 } 5 }	13 } 22 }	17	3 } 6 }	12 } 15 } 0 } 30 }			
Shoeburyness ...	103	90	†	—	Defective	Records.	—	—	—	—	—	—	—	—	—	—	—	—			
4. MIDLAND COUNTIES.																					
Benson ...	270	84	†	—	0	2	5	159	412	168	0	250	12	2	16	19	6	15 15			
5. ENGLAND, S.E.																					
Calshot ...	45	40	31	—	Instrument	out of Action.	—	—	—	—	—	—	—	—	—	—	—	—			
Brighton ...	261	53	6	—	0	—	0	255	369	120	0	—	10	6	16	16	6	14 20			
Larkhill (S'y Plain) ...	513	63	43	—	0	6	30	370	335	9	0	230	14	2	15	18	2	14 15			
Richmond (Kew Obs.) ...	82	65	22	—	0	—	0	120	415	191	18	220	10	2	16	19	2	15 35			
Isle of Grain ...	65	45	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
7. ENGLAND, N.W.																					
Fleetwood (Cup. Anr.) ...	109	44	—	—	0	13	65	315	304	57	3	260	15	6	9	—	—	—			
Southport ...	80	62	48	—	0	13	97	327	281	39	0	230	17	27	2	23	27	23 15			
Holyhead ...	60	40	†	—	0	13	48	409	266	21	0	310	14	21	7	21	27	18 0			
8. ENGLAND, S.W.																					
Pendennis Castle§ ...	256	65	24	2, 5, 7	9	13	109	412	179	35	0	—	19	5	20	24	5	19 50			
Plymouth ...	185	88	2	—	0	5	19	210	323	108	84	—	15	5	22	20	5	22 25			
Lyme Regis ...	556	61	†	—	0	1	1	130	456	157	0	—	11	5	23	16	5	21 25			
10. IRELAND, S.																					
Kingstown (Cup Anr.) ...	49	27	—	—	0	10	20	325	357	42	0	240	13	6	12	—	—	—			
Quilty ...	100	40	†	—	0	13	55	369	267	53	0	—	13	27	15	19	27	16 20			
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	7	21	355	255	68	45	350	13	11	1	20	11	0 35			
Weaver Pt. ...	160	30	†	—	0	5	11	363	347	21	2	—	13	5	15	20	5	14 45			
11. ENGLISH CHANNEL.																					
Scilly ...	150	32	†	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]
 * Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

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

The dotted lines indicate the normal distribution of pressure in August, based on 45 years' observations, 1871-1915.

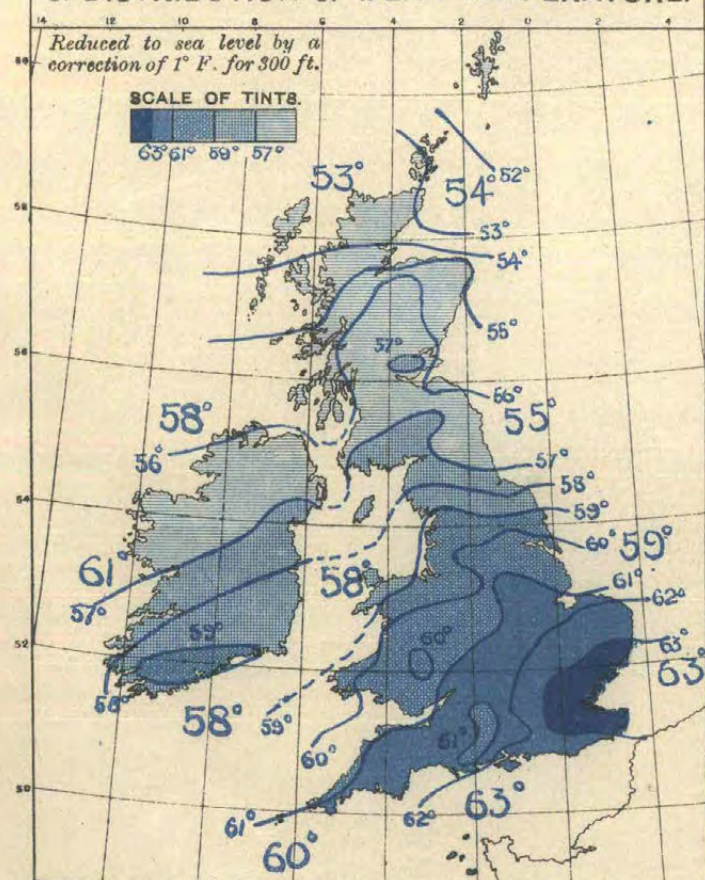


WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 Obs. - 1 Inch - 4

3. DISTRIBUTION OF MEAN TEMPERATURE.

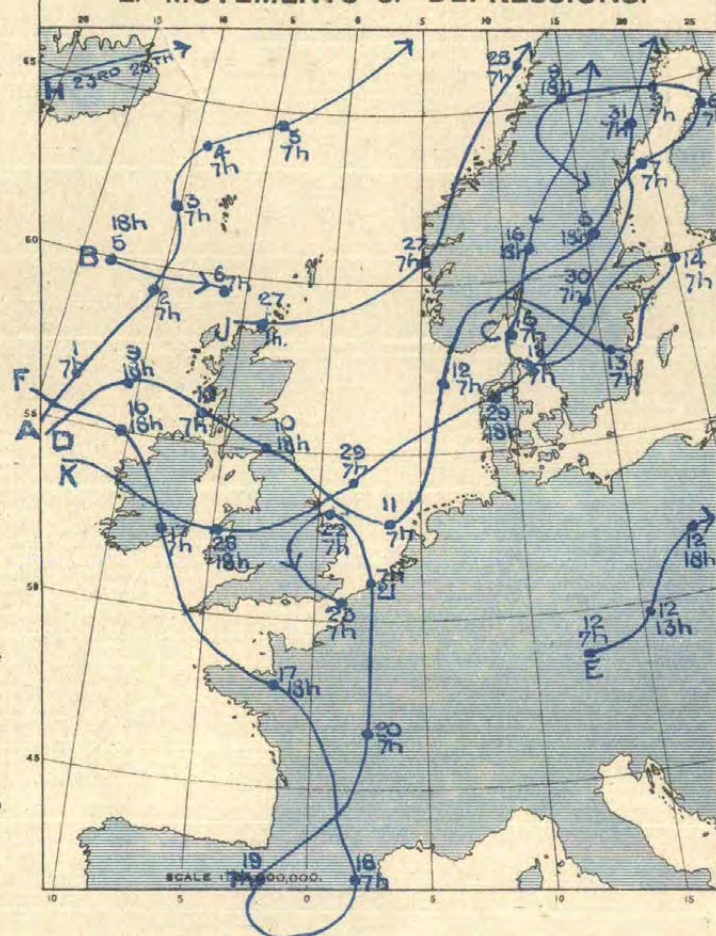
Reduced to sea level by a correction of 1° F. for 300 ft.

SCALE OF TINTS.



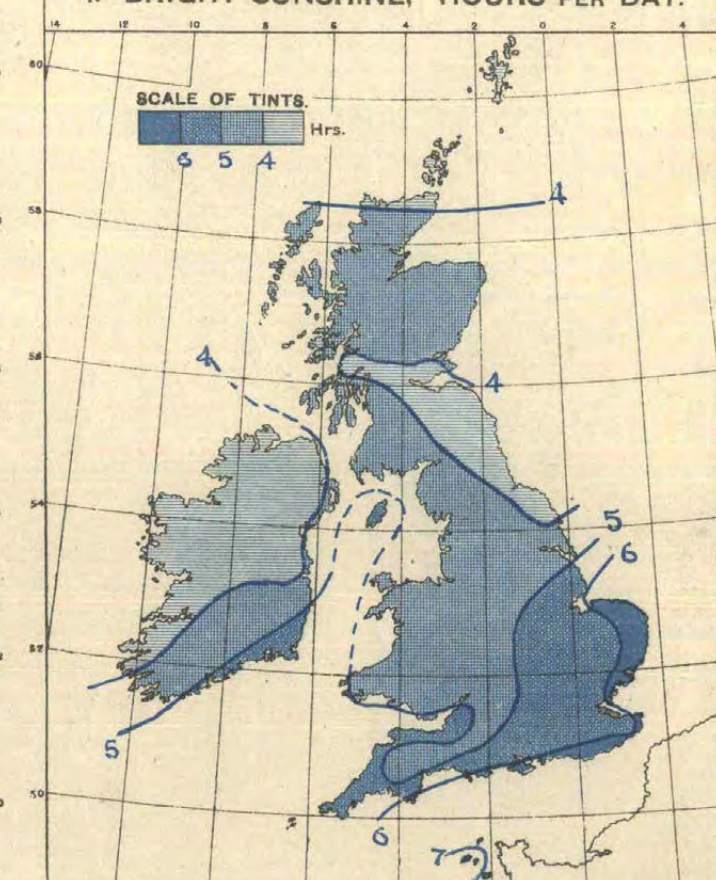
Sea temperatures are shown in large figures, thus: 63

2. MOVEMENTS OF DEPRESSIONS.



4. BRIGHT SUNSHINE, HOURS PER DAY.

SCALE OF TINTS.



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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 0 ft.		RAINFALL.				WEATHER. Number of days.										BRIEF SUNSHINE.			
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Deviation from Normal.	Most in a day.				Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.									
					A	B		Maximum.	Date.	Minimum.			Date.	Amount.											Date.	Daily Mean.	Deviation from Normal.	Per Cent.						
					Max.	Min.																							Mean of A and B.					
0. SCOTLAND, N.																																		
Shetlands.	Baltasound	...	9	9	9	31	55.3	46.4	50.9	—	62	19, 23	35	29th	53.3	—	1.82	46	—	15	26th	26	14	0	0	0	0	0	0	0	0	3.45	—	22
	Lerwick	...	18—7	7	54	54.5	46.4	50.5	—2.3	62	23rd	40	30th	—	—	1.91	48	—28	16	26th	18	13	0	0	0	0	0	0	0	0	—	—	—	
Orkneys.	Deerness	...	21	21	9	160	56.4	47.5	52.0	—1.4	65	1st	41	30th	—	—	2.82	72	—1	13	26th	24	13	0	0	0	0	0	7	—	—	—	—	
	Kirkwall	...	9	9	9	100	57.3	48.5	52.9	—	69	1st	41	29, 30	—	—	3.00	76	—	13	26th	22	14	0	0	0	0	0	6	—	—	—	—	
Hebrides.	Castlebay	...	18—7	7	37	57.3	52.0	54.7	—	67	17th	45	30th	—	—	4.57	103	—	44	9th	21	14	0	0	0	0	0	1	—	—	—	—	—	
	Stornoway	...	18—7	7	51	58.2	47.5	52.9	—1.6	66	19th	35	30th	—	—	3.31	84	—17	19	5th	21	16	0	0	0	0	0	0	—	—	—	—	—	
Calthness.	Wick ...	...	18—7	7	81	57.4	47.5	52.5	—1.9	67	1st	35	30th	—	—	1.86	47	—23	10	20th	24	13	0	0	0	0	0	6	—	—	—	—	—
	Dunrobin	...	8	8	8	12	59.6	48.4	54.0	—1.5	70	19th	39	29th	56.0	—	2.03	52	—17	—	—	21	13	0	0	0	0	0	0	—	—	—	—	
Sutherland.	Fortrose	...	9	9	9	69	59.9	49.7	54.8	—	69	1st	40	30th	—	—	2.14	54	—	12	20th	18	11	0	0	0	0	1	—	—	—	—	—	
	Glencarron	...	21	21	9	500	58.3	47.2	52.8	—1.7	71	19th	36	30th	—	—	4.98	126	—50	17	20th	19	17	0	0	0	1	0	—	—	—	—	—	
Ross and Cromarty.	Strathpeffer	...	9	9	9	125	62.1	48.7	55.4	—0.8	71	1, 19, 23	36	28th	—	—	2.13	54	—12	13	10th	13	10	0	0	0	0	0	—	—	—	—	—	
Inverness.	Ft. Augustus	...	8	8	8	68	61.6	48.5	55.1	—1.1	75	19th	33	30th	—	—	2.87	73	—15	10	1st	22	15	0	0	0	0	0	—	—	—	—	—	
	Ft. William	...	21	21	9	171	62.6	48.9	55.8	—0.8	73	19th	36	30th	—	—	5.12	130	—26	20	26th	21	18	0	0	0	0	3	—	—	—	—	—	
	Inverness	...	21	21	9	98	61.4	50.1	55.8	—	72	1st	41	30th	58.6	—	3.31	84	+21	22	20th	23	11	0	0	1	0	0	—	—	—	—	—	
1. SCOTLAND, E.																																		
Nairn.	Nairn	...	18—7	7	82	61.7	47.8	54.8	—1.4	74	1st	36	16th	—	—	1.98	50	—11	11	20th	20	9	0	0	0	0	0	—	—	—	—	—	—	
	Gordon Castle	...	21	21	9	101	61.6	48.2	54.9	—1.5	74	1st	38	16, 30	—	—	3.05	77	—4	29	20th	19	13	0	0	0	0	0	—	—	—	—	—	
Elgin.	Banff ...	...	17—9	9	6	60.7	49.5	55.1	—	77	1st	40	29th	—	—	3.29	84	—	28	20th	21	13	0	0	0	0	1	0	—	—	—	—	—
	Aberdeen	...	24	24	24	46	60.1	49.3	54.7	—1.6	71	1st	39	30th	—	—	54.9	1.99	51	—19	9	17th	15	12	0	0	0	1	6	2	—	—	—	
Bairn.	Balmoral	...	9	9	9	930	59.7	45.0	52.4	—	74	19th	30	30th	—	—	2.88	73	—7	23	20th	21	12	0	0	0	0	3	4	—	—	—	—	
	Braemar	...	21	21	9	1120	59.6	45.0	52.3	—1.3	75	19th	30	30th	—	—	3.54	90	+5	36	20th	16	14	0	0	0	1	0	3	—	—	—	—	
Kincardine.	Logie Coldstone	...	9	9	9	608	61.1	46.1	53.6	—	71	1, 18, 19	32	16th	—	—	2.27	58	—23	13	16th	24	10	0	0	0	0	0	3	—	—	—	—	
	Crathes...	...	9	9	9	269	62.0	47.9	55.0	—1.0	73	18th	36	30th	54.6	52.8	1.60	41	—	10	16th	17	9	0	0	0	1	5	0	—	—	—	—	
Forfar.	Arbroath	...	8	8	8	67	61.2	50.3	55.8	—	68	6th	38	30th	—	—	2.28	58	—	9	16th	15	14	0	0	0	1	4	—	—	—	—	—	
	Carnoustie	...	9	9	9	39	61.3	49.4	55.4	—	70	1st	37	30th	—	—	2.54	65	—	15	16th	20	12	0	0	0	1	5	—	—	—	—	—	
Dundee E. Nec.	Dundee E. Nec.	...	21	21	9	160	62.5	49.7	56.1	—1.2	69	1st	38	30th	—	—	3.85	98	+12	20	16th	22	15	0	0	0	0	0	—	—	—	—	—	
	„ Coll. Gdns.	...	9	9	9	244	62.9	47.7	55.3	—	71	18th	34	30th	57.5	—	3.81	97	—	20	16th	19	13	0	0	0	2	3	1	—	—	—	—	
Kettins.	Kettins	...	9	9	9	218	62.0	48.7	55.4	—	72	18th	32	30th	—	—	4.00	102	—	29	20th	19	15	0	0	0	3	0	1	—	—	—	—	—
	Lednathie	...	9	9	9	720	61.6	—	—	—	75	18th	—	—	—	—	5.77	147	—	41	16th	20	16	0	0	0	1	1	—	—	—	—	—	
Montrose.	Montrose	...	17—9	9	16	60.7	49.5	55.1	—	70	1st	37	16, 30	—	—	1.82	46	—	8	16th	20	13	0	0	0	1	5	—	—	—	—	—	—	
Perth.	Crieff ...	...	21	21	9	478	62.2	47.6	54.9	—2.4	74	18th	37	30th	—	—	6.80	173	+66	35	20th	26	18	0	0	0	1	0	—	—	—	—	—
	Perth ...	...	8	8	8	76	63.5	50.4	57.0	—0.3	75	18th	33	30th	—	—	5.04	128	+42	35	20th	20	14	0	0	0	1	0	—	—	—	—	—
Fife.	Cupar...	...	9	9	9	210	63.7	49.2	56.5	—	72	19th	35	30th	—	—	3.24	82	—	17	20th	18	13	0	0	0	2	6	—	—	—	—	—	
	Kirkcaldy	...	9	9	9	66	62.0	50.9	56.5	—	70	1st	39	30th	—	—	3.93	100	—	18	16th	22	15	0	0	0	0	3	—	—	—	—	—	
St. Andrews.	St. Andrews	...	17—9	9	20	61.8	49.8	55.8	—	71	1, 18	35	30th	57.9	55.8	3.06	78	—	20	21st	15	15	0	0	0	0	4	1	—	—	—	—	—	
	Bangour	...	21	21	9	587	60.9	47.5	54.2	—	71	18th	36	30th	—	—	5.60	142	—	35	20th	25	19	0	0	0	1	7	—	—	—	—	—	
Linlithgow.																																		
Edinburgh.	Blackford Hill	...	21	21	9	441	60.4	49.5	55.0	—1.7	70	1st	41	30th	—	—	3.84	98	+24	20	20th	24	16	0	0	0	0	11	0	—	—	—	—	
	Liberton	...	9	9	9	190	61.5	49.9	55.7	—	72	1st	40	30th	—	—	3.60	91	—	18	21st	22	14	0	0	0	0	8	—	—	—	—	—	
Edin. Univ.	Edin. Univ.	...	9	9	9	227	61.7	50.8	56.3	—	72	1st	41	30th	57.8	57.4	4.13	105	+27															

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Calc.	Hours per day.		Per Cent.		
					A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.										Daily Mean.	Deviation from Normal.			
					Max.	Min.																								Mean of A and B.	
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.										hr.	hr.	%		
2. ENGLAND. N.E.																															
Northumberland.	Alnwick	9 9	9	181	62.5	50.5	56.5	-0.7	77	1st	40	30th	—	—	4.89	124	+45	20	21st	20	15	0	0	0	4	—	—	—	—	—	
	Bellingham	9 9	9	848	61.5	45.8	53.7	—	72	19, 20	35	30, 31	—	—	6.75	171	—	36	29th	22	20	0	0	0	5	2	3.88	-1.25	26		
	Cockle Park	21 21	9	324	61.0	48.7	54.9	-1.1	74	1st	38	31st	56.1	55.7	6.38	162	+87	35	29th	22	20	0	0	0	5	2	3.88	-1.25	26		
	Tynemouth	18-7	7	118	61.0	51.9	56.5	-1.2	74	1st	42	30th	—	—	5.16	131	+61	44	29th	27	18	0	0	0	2	11	—	—	—		
Durham.	Chopwellwood	9 9	9	445	63.1	47.0	55.1	—	73	1st	34	31st	—	—	6.07	154	—	30	29th	21	16	0	0	0	6	—	3.89	—	26		
	Durham	21 21	9	336	64.0	49.5	56.8	-1.1	73	1st	39	30th	—	—	4.12	105	+42	19	29th	19	14	0	0	0	1	6	3.66	-1.11	25		
	Ushaw College	9 9	9	594	62.8	48.5	55.7	—	73	1st	38	30th	—	—	4.65	118	—	23	28th	22	16	0	0	0	2	—	—	—	—		
York, N. Riding.	Ampleforth	9 9	9	348	64.2	50.7	57.5	—	75	1st	43	31st	—	—	4.56	116	+35	27	21st	21	16	0	0	0	2	6	—	—	—		
	Bridlington	21 21	9	57	64.9	51.9	58.4	—	83	1st	41	16th	—	—	3.19	81	—	20	28th	16	10	0	0	0	0	0	4.28	—	29		
	Rounton	20 20	8	249	63.8	50.4	57.1	—	75	1st	41	31st	59.3	—	3.53	90	+19	24	5th	24	18	0	0	0	2	7	—	—			
	Scarborough*	17-9	9	118	64.5	54.5	59.5	+0.6	80	1st	48	26, 31	—	60.3	4.13	105	+34	19	29th	20	14	0	0	0	1	0	3.87	-1.45	26		
	West Witton	9 9	9	605	64.5	51.0	57.8	—	75	1st	42	30, 31	59.6	56.1	4.10	104	—	20	21st	23	18	0	0	0	1	6	—	—			
	Whitby	21 21	9	124	63.9	52.5	58.2	-0.7	80	1st	45	16th	—	—	3.96	101	+39	26	29th	20	12	0	0	0	2	6	3.68	-1.61	25		
	York	21 21	9	56	66.9	53.0	60.0	+0.3	80	1st	46	30, 31	61.0	58.8	3.65	93	+29	20	28th	20	14	0	0	0	1	0	4.12	-0.75	28		
York, E. Riding.	Howden	18-7	7	21	67.5	51.5	59.5	—	81	1st	37	31st	60.6	58.3	3.42	87	—	27	28th	20	16	0	0	0	1	6	4.30	—	29		
	Hull	21 21	9	8	67.5	53.4	60.5	+1.1	83	1st	44	31st	61.7	58.3	2.82	72	-2	19	28th	17	13	0	0	0	2	0	4.20	—	28		
	Spurn Head	18-7	7	26	65.9	55.5	60.7	+0.9	82	1st	50	30, 31	—	—	2.07	53	-1	14	28th	15	11	0	0	0	2	5	—	—	—		
Lincoln.	Cranwell	18-7	7	237	67.7	53.2	60.5	—	81	1st	43	31st	61.8	60.3	3.71	94	—	27	11th	14	13	0	0	0	4	5	5.50	—	37		
	Fulbeck	9 9	9	180	68.5	53.0	60.8	+0.6	81	1st	39	31st	—	—	3.36	85	+17	22	11th	21	12	—	—	—	—	—	5.35	-0.65	36		
	Lincoln	9 9	9	58	68.8	54.0	61.4	+1.1	82	1st	44	31st	61.8	60.3	3.16	80	+17	30	11th	14	11	0	0	0	2	0	—	—	—		
	Skegness	17-9	9	12	67.0	54.2	60.6	+1.5	81	1st	42	31st	—	—	2.43	62	+5	13	11th	13	11	0	0	0	2	0	6.07	-0.16	41		
3. ENGLAND. E.																															
Norfolk.	Cromer	9 9	9	196	68.6	54.6	61.6	+1.5	83	1st	47	31st	—	—	2.10	53	—	10	7th	16	11	0	0	0	1	2	6.17	+0.14	42		
	Geldeston	9 9	9	37	70.5	52.8	61.7	+1.3	82	1st	40	31st	—	—	1.10	28	-27	6	13th	10	9	0	0	0	6	2	6.05	-0.01	41		
	L. Massingh'm	9 9	9	277	68.0	54.4	61.2	+1.6	82	1st	45	31st	—	—	1.86	47	-25	13	7th	13	10	0	0	0	2	0	5.90	+0.13	40		
	Norwich	9 9	9	93	70.5	55.0	62.8	+2.1	84	1st	41	31st	64.2	—	1.52	39	-21	8	7th	14	10	0	0	0	6	0	5.99	—	41		
	Pulham	18-7	7	125	70.0	53.5	61.8	—	82	1st	40	31st	—	—	4.63	117	—	80	13th	11	8	0	0	2	4	0	5.99	—	41		
Suffolk.	Yarmouth	18-7	7	13	69.3	55.2	62.3	+2.0	82	1st	45	31st	64.3	62.0	1.89	48	-15	30	21st	12	7	0	0	3	5	5	6.90	—	47		
	Bungay (Flixton)	8 8	8	79	71.2	54.2	62.7	—	83	1st	42	31st	—	—	2.29	58	—	19	23rd	13	10	0	0	0	4	2	—	—	—		
	Felixstowe Aero	18-7	7	15	70.4	56.6	63.5	—	77	1st	43	31st	—	—	0.51	13	—	7	13th	10	3	0	0	0	2	1	6.45	—	44		
	Beach	17-9	9	15	69.8	56.1	63.0	+1.6	77	1st	42	13th	—	—	0.75	19	-24	10	13th	10	7	0	0	0	2	1	6.89	-0.21	47		
	Copdock	9 9	9	164	72.3	53.6	63.0	—	80	1, 18	41	31st	62.9	60.7	2.15	55	—	37	11th	12	8	0	0	0	4	3	5.72	—	39		
Cambridge.	Lowestoft	17-9	9	83	69.1	56.1	62.6	+2.4	83	1st	45	31st	64.0	61.4	1.84	47	-9	20	21st	13	8	0	0	1	4	0	6.67	-0.07	46		
	Cambridge	20 20	8	41	71.0	52.7	61.9	+0.8	81	18th	38	31st	63.7	62.4	1.10	28	-32	5	7th	14	9	0	0	0	2	1	5.58	-0.48	38		
	Luton	8 8	8	390	70.2	51.9	61.1	—	80	18th	35	31st	64.5	61.5	0.87	22	—	9	16th	9	5	0	0	0	0	1	5.32	—	36		
Hertford.	Woburn	9 9	9	291	69.6	52.6	61.1	+1.2	82	18th	36	31st	62.0	58.0	1.68	43	-14	20	16th	18	9	0	0	0	0	0	5.25	—	36		
	Bennington	21 21	9	406	70.4	53.1	61.8	+1.3	80	19th	40	31st	63.2	62.2	1.32	34	-27	12	17th	13	8	0	0	0	3	1	5.17	—	35		
	Berkhamsted	9 9	9	450	70.5	53.1	61.8	+1.3	80	18, 19	40	31st	—	—	1.36	35	-20	14	16th	14	6	0	0	0	1	2	—	—	—		
Essex.	Hemel Hempstead	21 21	9	535	69.1	52.2	60.7	—	79	18, 19	40	31st	—	—	1.69	43	—	20	17th	10	7	—	—	—	—	—	5.62	—	38		
	Hitchin	8 8	8	297	71.4	53.7	62.6	—	81	18, 19	40	31st	64.3	62.3	0.81	21	—	6	16th	10	7	0	0	0	0	2	0	5.35	—	37	
	Rothamsted	9 9	9	420	69.2	52.6	60.9	+1.0	78	19th	37	31st	61.9	—	1.01	26	-37	11	16th	10	7	0	0	0	1	0	4.68	-1.29	32		
	Clacton-on-S.	18-7	7	54	69.7	56.6	63.2	+2.0	76	7th	45	31st	64.1	62.2	0.74	19	-28	8	13th	8	6	0	0	0	3	0	6.13	-0.74	42		
	Chelmsford	9 9	9	134	71.7	52.8	62.3	—	80	19th	37	31st	—	—	1.31	33	—	9	23rd	8	7	—	—	—	—	—	—	—	—		
	Halstead	9 9	9	139	73.2	53.1	63.2	—	81	1, 18, 19	38	31st	—	—	1.42	36	—	11	23rd	11	8	0	0	0	4	0	—	—	—		
	Rid																														

TABLE III. (continued)—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.							BRIGHT SUNSHINE.								
						Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.						Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.		Per Cent.					
						A	B			Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.						
																															Max.	Min.	1 ft.	4 ft.	
4. MIDLAND COUNTIES—cont.																																			
Stafford.	Cheadle	ft.	9	9	9	64	65.9	50.8	58.4	+0.5	79	1st	41	31st	—	—	4.85	123	+35	32	28th	18	14	—	—	—	—	—	—	—	—	—	—	—	—
	Mayfield	...	9	9	9	374	65.8	50.5	58.2	—	78	1st	31	31st	—	—	4.96	126	—	26	28th	19	15	0	0	0	2	1	0	0	4.64	—	—	32	
Shropshire.	Roden, Well'n	8	8	8	207	65.8	49.2	57.5	—	76	1, 18	33	31st	—	—	3.86	98	—	16	28th	18	13	0	0	0	1	0	—	—	—	—	—	—	—	
	Wistanstow	21	21	9	481	66.6	50.6	58.6	—0.5	77	18th	33	31st	—	—	3.41	87	+10	13	28th	17	14	0	0	0	1	2	1	1	0	—	—	—	—	
Worcester.	Malvern	...	17	—	9	377	67.0	53.9	60.5	—	77	18th	42	31st	62.7	62.5	4.03	102	—	21	10th	17	16	0	0	0	3	0	0	0	4.52	—	—	31	
	Sparkhill	...	7	13	7	424	67.9	52.1	60.0	—	79	18th	38	31st	—	—	3.72	95	—	15	5th	18	14	0	0	0	4	2	1	0	—	—	—	—	
	Tenbury	ft.	21	21	9	313	67.7	51.2	59.5	+0.6	78	18th	35	31st	61.4	—	3.61	92	+17	18	10th	15	14	0	0	0	2	2	0	0	—	—	—	—	
Hereford.	Bromyard	...	9	9	9	392	66.9	52.0	59.5	—	76	18th	33	31st	61.9	60.2	3.77	96	—	20	10th	18	13	0	0	0	2	1	0	0	—	—	—	—	
	Hereford	ft.	9	9	9	291	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Ross	...	18	—	7	223	68.0	53.0	60.5	—0.4	79	1st	36	31st	62.5	62.0	2.36	60	—5	10	10th	16	11	0	0	0	1	3	3	1	0	4.71	—	32	
Gloucester.	Cheltenham	...	9	9	9	214	68.6	53.4	61.0	+0.6	80	1st	42	31st	—	—	2.32	59	—8	21	10th	13	12	0	0	0	1	0	0	0	4.39	—	30		
	Overcourt	...	9	9	9	147	68.5	53.2	60.9	—	80	18th	42	31st	—	—	2.47	63	—	11	10th	13	10	—	—	—	—	—	—	—	—	—	—		
Clifton	ft.	9	9	9	225	68.2	54.1	61.2	—0.7	79	18, 19, 20	45	31st	—	—	3.21	82	—7	19	10th	16	13	0	0	0	0	0	0	0	0	5.66	—	39		
5. ENGLAND, S.E.																																			
London.	Camden Square	9	9	9	110	73.9	55.0	64.4	+1.2	84	19th	44	31st	64.7	62.6	1.65	42	—14	19	23rd	9	7	—	—	—	—	—	—	—	—	—	—	—	—	
	East Ham	...	9	9	9	15	72.1	53.9	63.0	—	81	19th	40	31st	—	—	1.27	32	—	15	17th	9	8	—	—	—	—	—	—	—	—	—	—	—	
	Enfield	...	9	9	9	148	72.1	54.0	63.1	—	82	19th	40	31st	—	—	60.7	1.42	36	—	12	23rd	10	8	0	0	1	2	0	0	0	5.44	—	37	
	Greenwich	...	9	9	9	149	74.2	53.4	63.8	+1.2	82	19th	40	31st	61.6	59.4	0.68	17	—39	4	16th	10	6	0	0	0	4	0	1	0	5.77	—0.43	40		
	Hampst'd Res.	20	20	9	450	69.8	54.2	61.0	—	79	19th	45	30th	—	—	1.84	47	—	14	23rd	10	7	0	0	0	2	0	0	0	0	5.45	—	38		
	Richmond (Kew Obs.)	ft.	24	24	24	18	71.1	54.5	62.8	+1.2	81	19th	41	31st	64.4	61.2	0.99	25	—32	10	13th	6	5	0	0	0	3	0	0	0	5.38	—0.65	37		
	Kensington Pal.	...	9	9	9	80	71.9	55.0	63.5	—	83	19th	46	30th	64.1	61.9	1.68	43	—	19	23rd	10	7	0	0	0	2	0	0	0	—	—	—	—	
	Tottenham	ft.	21	21	9	51	72.2	56.2	64.2	—	82	19th	44	31st	—	—	66.9	0.95	24	—	6	16th	8	6	0	0	0	2	0	0	1	5.53	—	38	
	Westminster	...	9	9	9	27	72.0	56.0	64.0	+1.5	82	19th	44	31st	—	—	0.81	21	—37	6	23rd	11	6	0	0	0	4	0	0	0	5.35	—0.13	37		
	Kent.	Belvedere	...	9	9	9	14	71.6	54.9	63.3	—	79	19th	41	31st	61.3	58.0	1.54	39	—	13	17th	8	7	0	0	0	0	0	0	0	—	—	—	—
Bexley Heath		21	21	7	161	72.0	53.7	62.9	—	82	19th	41	31st	64.1	61.4	1.87	48	—	18	17th	9	7	0	0	0	3	0	0	0	—	—	—	—		
Biggin Hill		...	18	—	7	600	68.1	53.3	60.7	—	75	18, 19	45	30th	—	—	2.01	51	—	16	23rd	12	7	0	0	0	4	5	—	0	5.75	—	40		
Canterbury		...	9	9	9	40	71.6	54.8	63.2	—	79	1, 18	42	31st	66.2	63.6	1.51	38	—	10	28th	10	9	—	—	—	—	—	—	—	—	—	—		
Deal		...	17	—	9	1	70.2	55.8	63.0	—	79	1st	45	31st	63.9	62.2	2.76	70	—	48	12th	6	6	0	0	0	2	0	0	0	6.67	—	46		
Dungeness		ft.	18	—	7	21	68.2	56.1	62.2	+0.8	72	18, 19	44	31st	—	—	1.01	26	—24	7	17th	10	8	0	0	0	2	2	0	0	—	—	—	—	
Folkestone		...	17	—	9	101	69.7	55.6	62.7	—	77	19th	48	30th	—	—	63.6	1.53	39	—	9	17th	9	8	0	0	0	3	0	0	0	6.36	—	44	
Isle of Grain		...	18	—	7	10	71.0	53.5	62.3	—	78	1st	41	31st	—	—	0.51	13	—	4	23rd	7	4	0	0	0	4	3	—	0	5.84	—	40		
Lympe		...	18	—	7	735	68.9	53.7	61.3	—	77	1st	44	30th	—	—	59.8	2.13	54	—	15	12th	12	9	0	0	0	3	5	0	0	6.57	—	45	
Margate		ft.	17	—	9	51	70.0	57.7	63.9	+1.8	81	1st	50	31st	67.1	66.5	1.45	37	—12	13	28th	10	7	0	0	0	3	0	0	0	5.87	—0.29	40		
Ramsgate		...	9	9	9	168	69.8	55.2	62.5	—	78	1st	47	30, 31	—	—	1.04	26	—	7	13th	10	9	0	0	0	1	0	—	0	6.71	—0.06	46		
Sevenoaks		...	9	9	9	959	70.4	53.3	61.9	—	79	18th	43	31st	63.0	59.1	1.74	44	—18	12	23rd	11	8	0	0	0	4	0	0	0	6.24	—	43		
Tunbridge W.	ft.	17	—	9	354	70.3	52.7	61.5	+0.8	79	18th	41	31st	62.9	61.4	1.33	34	—25	9	12th	11	9	0	0	0	3	0	1	0	5.59	—0.86	39			
Surrey.	Addington	...	9	9	9	472	68.5	51.7	60.1	—	78	19th	43	30th	—	—	1.14	29	—	8	12th	13	9	—	—	—	—	—	—	—	—	—	—		
	Croydon	...	18	—	7	245	70.5	54.2	62.4	—	79	19th	43	31st	—	—	1.24	32	—	9	12th	10	6	0	0	1	4	0	0	0	—	—	—	—	
	Wallington	...	9	9	9	140	70.9	54.5	62.7	—	81	19th	40	31st	65.1	65.3	0.76	19	—	4	23rd	11	7	0	0	0	5	0	0	0	—	—	—	—	
	Wiseley	ft.	9	9	9	150	72.2	52.7	62.5	+1.6	81	19th	37	31st	64.6	61.4	0.56	14	—39	4	17th	10	5	0	0	0	1	0	1	0	5.62	—0.61	39		
	Woking	...	9	9	9	179	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sussex.	Ardingly	...	9	9	9	439	69.5	50.5	60.0	—	77	18, 19	40	31st	—																				

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Rain.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.							BRIGHT SUNSHINE.								
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Deviation from Normal.			Most in a day.		Precipitation. 1 mm. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.										
						A	B		Maximum.	Date.	Minimum.					Date.	Amount.								Date.	Precipitation.	Snow.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
						Max.	Min.																													1 ft.	4 ft.
7. ENGLAND, N.W.																																			
Cumberland.	Aspatria (Mealsgate)	21	21	9	487	62.0	49.4	55.7	-2.0	73	19th	37	30th	58.1	—	5.71	145	+36	21	20th	22	20	0	0	0	0	0	0	0	0	4.13	hr.	—	0.87	28
	Egremont	20	20	8	349	63.5	50.8	57.2	—	76	19th	42	28, 30	60.5	57.3	8.02	204	—	33	1st	22	21	0	0	0	0	1	0	0	0	4.57	—	—	27	
	Keswick	20	20	9	254	64.5	50.7	57.6	—	79	20th	39	30th	60.6	57.4	6.64	169	—	26	1st	23	19	0	0	0	0	1	0	0	0	4.05	—	—	31	
	Newton Rigg	21	21	9	559	64.2	48.4	56.3	-0.7	79	19th	37	31st	—	—	5.30	135	+45	19	5th	21	20	0	0	0	0	0	0	0	0	4.32	—	0.65	29	
	Scaaby	9	9	9	111	65.6	49.9	57.8	-0.1	77	19, 20	35	30th	—	—	4.63	117	+13	22	1st	19	18	0	0	0	0	0	0	0	0	—	—	—	—	
Lancashire.	Blackpool	17	—	9	66	63.9	54.0	59.0	+0.2	76	19th	43	30, 31	61.0	57.8	5.26	134	+43	35	5th	21	17	0	0	0	0	3	0	0	0	4.82	—	1.02	33	
	Blundellsands	9	9	9	34	64.2	54.6	59.4	—	75	18th	43	31st	60.9	58.5	4.84	123	—	27	5th	19	14	0	0	0	0	2	1	0	0	—	—	—	—	
	Bolton	9	9	9	341	65.2	52.5	58.9	—	77	18th	41	31st	60.5	58.3	5.92	150	—	29	5th	25	20	0	0	0	0	0	0	0	0	4.20	—	—	29	
	Burnley	9	9	9	458	64.0	51.7	57.9	—	76	18th	41	31st	59.3	57.2	5.67	144	—	22	5th	20	17	—	—	—	—	—	—	—	—	—	—	—		
	Darwen	21	21	9	722	64.0	51.2	57.6	—	76	18, 19	42	30th	60.0	57.2	7.80	198	—	36	5th	24	21	0	0	0	0	1	0	0	0	4.06	—	—	27	
	Hutton	9	9	9	82	64.8	52.2	58.5	—	78	19th	43	31st	60.2	58.3	5.36	136	—	23	5th	20	19	0	0	0	0	0	1	0	0	4.38	—	—	30	
	Lancaster	9	9	9	311	64.3	52.6	58.5	—	79	19th	43	30th	61.2	61.4	7.76	197	—	43	5th	22	20	0	0	0	0	1	0	0	0	4.06	—	—	27	
	Leyland	9	9	9	124	64.3	51.9	58.1	—	77	19th	42	31st	—	—	5.14	130	—	23	5th	25	18	0	0	0	0	3	0	0	0	4.37	—	—	30	
	Morecambe	17	—	9	24	65.2	54.7	60.0	—	78	19th	46	30, 31	—	—	6.73	171	—	40	5th	21	17	0	0	0	0	0	0	0	5.21	—	—	35		
	Southport	17	—	9	37	63.3	54.4	58.9	-0.1	74	18th	43	31st	62.0	61.6	4.93	125	+37	26	1st	18	14	0	0	0	0	2	1	0	1	4.70	—	1.04	32	
Stonyhurst	9	9	9	375	64.1	52.8	58.5	+0.7	76	18th	43	31st	—	—	7.16	182	+53	27	22nd	22	21	0	0	0	1	5	3	0	0	4.25	—	0.62	29		
Liverpool.	Bidston	21	21	9	188	63.7	53.6	58.7	-0.8	77	1st	44	31st	—	—	4.91	185	+47	18	5th	23	18	0	0	0	1	2	1	0	0	3.85	—	—	26	
	Whitworth Pk.	21	21	9	125	66.5	52.8	59.7	-0.2	80	18th	40	31st	—	—	4.14	105	+17	18	11th	18	14	0	0	0	1	0	0	0	3.78	—	0.38	26		
	Oldham Road	21	21	9	190	66.3	54.8	60.6	0.0	80	18th	45	31st	62.9	63.2	4.79	122	+28	20	11th	16	14	0	0	0	1	0	0	0	3.93	—	0.04	27		
Alex. Park	18	—	7	99	66.7	51.9	59.3	—	79	1st	36	31st	—	—	4.20	107	—	19	11th	16	13	0	0	0	1	4	1	0	—	—	—	—	—		
Cheshire.	Hawarden B'ge	9	9	9	22	65.8	53.2	59.5	-0.8	78	19th	39	31st	—	—	2.92	74	+1	11	11, 28	21	17	—	—	—	—	—	—	—	—	—	—	—	—	
	Hoylake	9	9	9	30	64.3	53.9	59.1	-0.8	74	1st	38	31st	—	—	5.92	150	+76	30	2nd	20	17	—	—	—	—	—	—	—	—	—	—	—	—	
	Macclesfield	8	8	8	500	65.5	50.7	58.1	-0.2	77	1st	39	31st	—	—	4.86	123	+27	27	28th	22	15	—	—	—	—	—	—	—	—	—	—	—	—	
7a and 8b WALES.																																			
Flint.	Rhyl	17	—	9	30	63.6	52.9	58.3	-0.9	71	1st	44	31st	—	—	3.22	82	+13	22	2nd	19	13	0	0	0	0	0	0	0	0	4.22	—	1.68	29	
	Holyhead	18	—	7	15	62.3	54.2	58.3	-0.4	69	18th	51	3, 11, 30	—	—	5.01	127	+46	31	5th	19	13	0	0	0	0	0	0	0	0	4.48	—	—	30	
	Colwyn Bay	17	—	9	81	63.6	53.7	58.7	—	71	1st	44	31st	—	—	3.45	88	—	21	2nd	17	15	—	—	—	—	—	—	—	—	—	—	—	—	
Carnarvon.	Llandudno	17	—	9	22	63.4	53.9	58.7	-1.2	71	1st	44	31st	—	—	3.94	100	+23	32	2nd	21	14	0	0	0	0	0	0	0	4.31	—	1.46	29		
Merioneth.	Aberdovey	9	9	9	60	65.1	55.6	60.4	-0.5	79	18th	45	31st	—	—	6.51	165	—	34	5th	23	17	0	0	0	0	0	0	0	—	—	—	—	—	
	Welshpool	8	8	8	262	68.8	50.4	59.6	—	78	18th	39	31st	—	—	4.68	119	—	16	28th	21	17	0	0	0	0	0	0	0	—	—	—	—	—	
Cardigan.	Aberystwyth	17	—	8	16	64.3	55.8	60.1	—	80	18th	44	31st	—	—	5.02	128	—	27	5th	19	14	0	0	0	0	0	0	0	4.68	—	0.90	32		
	Haverfordwest	21	21	9	250	—	—	—	—	—	—	—	—	—	—	7.31	186	+80	39	5th	19	16	0	0	0	0	0	2	0	4.83	—	1.17	33		
	St. Ann's Hd.	18	—	7	149	62.7	55.8	59.3	+0.3	77	18th	50	30th	—	—	4.10	104	+24	23	1st	19	14	0	0	0	0	0	3	1	5.31	—	0.85	37		
	Tenby	9	9	9	64	65.8	52.9	59.4	—	78	19th	43	31st	—	—	5.37	136	—	32	5th	21	14	0	0	0	2	0	0	0	5.24	—	1.18	36		
Brecknock.	Gwernyfed Pk.	8	8	8	374	66.5	49.3	57.9	-0.7	78	18th	33	31st	—	—	3.59	91	+19	16	10th	18	14	0	0	0	0	1	0	—	—	—	—	—	—	
	Rhayader	9	9	9	757	63.6	50.0	56.8	—	75	18th	33	31st	—	—	4.85	123	—	20	5th	24	18	0	0	0	0	1	0	1	0	4.22	—	—	29	
Glamorgan.	Cardiff	21	21	9	202	66.5	53.7	60.1	+0.1	77	18th	43	31st	62.5	60.8	3.16	80	-27	15	5th	16	15	0	0	0	1	1	0	0	5.47	—	—	38		
	Swansea	9	9	9	25	67.5	54.7	61.1	—	81	18th	45	31st	63.6	61.8	5.22	133	—	26	12th	21	16	0	0	0	0	0	0	0	4.96	—	—	34		
Monmouth.	Newport	8	8	8	32	68.6	55.4	62.0	—	81	18th	41	31st	61.7	61.1	3.44	87	—	20	5th	16	12	0	0	0	0	0	0	—	—	—	—	—		
8b. ENGLAND, S.W.																																			
Somerset.	Bath	17	—	9	66	69.1	53.4	61.3	+0.6	81	18th	38	31st	64.1	62.6	1.25	32	-40	14	10th	13	7	0	0	0	0	1	0	0	4.31	—	1.95	30		
	Long Ashton	9	9	9	162	68.3	52.7	60.5	—	79	18th	40	31st	63.4	—	3.07	78	—	15	16th	17	14	0	0	0	0	0	0	1	5.98	—	—	41		
Dorset.	Weston s. Mare	17	—	9	29	68.3	56.0	62.2	+0.8	80	18th	46	31st	—	—	2.15	55	-28	13	16th	14	11	0	0	0	1	2	0	0	1	5.35	—	—	37	
	Dorchester	8	8	8	314	67.7	51.4	59.6	—	78	18th	40	31st	—	—	2.30	58	—	14	6th	11	9	0	0	0	0	0	0	0	—	—	—	—		
	Holton Heath	9	17	9	64	68.0	52.5	60.3	—	80	19th	40	31st	64.4	64.4	2.35	60	—	22	21st	13	8	0	0	0	0	1	0	0	0	6.06	—	—	42	
	Portland Bill	18	—	7	19	65.8	58.2	62.0	+1.1	73	18, 20	55	16th	—	—	1.56	40	-14	7	10th	15	12	0	0	0	0	0	2	0	—	—	—	—	—	
	Shaftesbury	9	9	9	722	65.8	51.2	58.5	-1.0	76	18, 19	44	30th	61.7	60.6	1.50	38	-36	7	5th	12	10	0	0	0	0	1	2	1	0	—	—	—	—	
Devon.	Weymouth	17	—	9	21	70.7	55.2	62.6	—	82	20th	46	31st	—	—	1.24	31	—	6	5th	13	10	0	0	0	0	1	1	0	6.19	—	—	43		
	Arlington	9	9	9	613	64.5	52.0	58.3	-0.2	76	18th	41	31st	—	—	4.34	110	-20	18	4th	23	16	—	—	—	—	—	—	—	—	—	—	—	—	
	Ashburton	9	9	9	583	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Cullompton	9	9	9	202	69.8	50.9	60.4	+0.1	81	19th	38	31st	62.9																					

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.					
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
								Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.				
					A	B	Max.					Min.			Mean of A and B.			Max.	Min.	1 ft.	4 ft.											
9. IRELAND, N.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.									hr.	hr.	%				
Sligo.	Markree Castle	21 21	9	122	62.4	48.9	55.7	-1.1	72	19th	37	29, 31	60.0	58.2	6.04	153	+43	20	9, 31	26	23	0	0	1	0	1	0	0	3.28	-0.95	22	
Mayo.	Blacksod Pt.	18-7	7	10	60.3	52.0	56.2	-1.6	66	1st	45	3, 31	—	—	4.05	103	-13	14	27th	26	21	0	0	0	0	0	0	0	—	—	—	
	Mallarany	9 9	9	120	61.7	51.0	56.4	—	68	17th	42	30th	—	—	6.60	168	—	24	10th	21	19	0	0	0	0	0	0	0	3.84	—	26	
Donegal.	Dunfanaghy	21 21	9	50	60.2	50.4	55.3	—	59	19th	42	28, 31	—	—	4.22	107	—	17	27th	25	17	0	0	0	0	1	—	1	—	—	—	
	Malin Head	18-7	7	208	58.8	52.0	55.4	-1.5	66	16th	45	29, 31	—	—	2.92	74	-16	11	26th	23	17	0	0	0	0	3	—	0	3.86	—	26	
Antrim.	Lisburn	9 9	9	206	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Down.	Donaghadee	18-7	7	35	61.4	51.1	56.3	-1.2	69	1st	44	28, 30, 31	—	—	3.38	86	+2	12	27th	22	18	0	0	0	0	2	—	0	—	—	—	
Armagh.	Armagh	21 21	9	204	63.1	50.1	56.6	-1.0	71	19th	40	31st	59.5	57.5	3.55	90	-2	13	3rd	26	21	0	0	0	0	1	1	0	3.32	-0.97	22	
Longford.	Newtownforbes	17-9	9	161	63.6	49.2	56.4	—	71	19th	38	30th	58.8	58.2	3.38	86	—	14	27th	22	18	0	0	0	1	4	—	0	—	—	—	
10. IRELAND, S.																																
Dublin.	Baldonnell	18-7	7	282	63.9	50.5	57.2	—	71	1st	40	30, 31	—	—	2.86	73	—	18	5th	22	15	0	0	1	0	4	0	0	3.73	—	25	
	City	21 21	9	54	63.4	52.5	58.0	-1.6	70	1st	44	30th	—	—	2.56	65	-12	15	5th	23	16	0	0	0	0	3	0	0	—	—	—	
	Glasnevin	21 21	9	55	65.3	51.2	58.3	-0.2	75	1st	39	31st	—	—	3.22	82	0	18	5th	24	16	0	0	0	0	1	0	1	—	—	—	
	Phoenix Pk.	21 21	9	155	64.6	49.7	57.2	-0.4	71	1st	36	31st	—	—	2.65	67	-14	18	5th	23	16	0	0	0	0	0	0	0	4.36	-0.87	30	
	Trin. Coll.	21 21	9	12	64.6	50.5	57.6	-2.4	73	1st	41	30th	60.5	59.0	2.38	60	-14	14	5th	21	16	0	0	0	0	0	0	0	—	—	—	
	Ranelagh	21 21	9	61	64.5	51.6	58.1	—	72	1st	41	31st	—	—	2.44	62	—	14	5th	23	17	0	0	0	0	0	0	0	—	—	—	
Wicklow.	Newcastle	21 21	9	256	64.3	51.2	57.8	—	72	1st	42	28th	—	—	3.10	79	—	17	5th	18	13	1	0	0	0	1	—	0	—	—	—	
Kildare.	Clongowes Wood	9 9	9	246	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
King's Co.	Birr Castle	18-7	7	175	63.8	50.5	57.2	-0.9	73	19th	36	30th	60.6	59.2	3.36	85	-12	12	9th	26	18	0	0	0	0	2	1	0	4.21	-0.37	29	
Queen's Co.	Mountmellick	9 9	9	252	64.9	—	—	—	72	18, 19	—	—	—	—	3.26	83	—	11	9th	22	19	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	Kilkenny	9 9	9	195	65.5	50.3	57.9	-0.6	75	18, 19	37	30th	—	—	4.54	115	—	23	5th	23	17	0	0	0	1	0	—	0	—	—	—	
Waterford.	Waterford	9 9	9	137	65.6	51.5	58.6	-0.5	78	19th	41	30th	—	—	4.85	123	+27	18	5th	20	19	—	—	—	—	—	—	—	—	—	—	
	Gortmore	21 21	9	16	65.6	51.6	58.6	—	76	18, 19	40	30th	—	—	4.92	125	—	22	5th	20	17	—	—	—	—	—	—	—	—	—	—	
	Training Col.	21 21	9	542	64.5	49.6	57.1	—	75	19th	42	3, 29, 30	—	—	4.91	125	—	23	1st	20	17	0	0	1	0	2	—	0	5.01	—	34	
	Seskin, Carrick-on-Suir.	21 21	9	542	64.5	49.6	57.1	—	75	19th	42	3, 29, 30	—	—	4.91	125	—	23	1st	20	17	0	0	1	0	2	—	0	5.01	—	34	
Limerick.	Foynes	9 9	9	50	63.6	52.2	57.9	-0.8	72	19th	42	30th	—	—	4.97	126	+28	15	1st	23	20	—	—	—	—	—	—	—	—	—	—	
	Mungret	9 9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	College	9 9	9	174	65.8	53.2	59.5	+0.3	79	19th	40	30th	—	—	5.11	130	+18	25	1st	24	17	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	24 24	24	30	62.1	53.6	57.9	-1.0	69	18th	41	30th	—	—	6.08	154	+32	27	9th	25	17	0	0	1	0	0	0	0	3.95	-1.05	27	
	Cahirveen (Val. Obs.)	18-7	7	131	65.2	56.4	60.8	0.0	76	19th	39	30th	—	—	3.91	99	+4	21	1st	21	15	0	0	0	1	0	—	0	5.08	+0.18	35	
Cork.	Ballinacurra	9 9	9	24	65.1	50.7	57.9	-1.5	76	19th	39	30th	—	—	3.91	99	+4	21	1st	21	15	0	0	0	1	0	—	0	5.08	+0.18	35	
	Roche's Pt.	18-7	7	32	64.7	53.5	59.1	0.0	76	18th	45	30th	—	—	4.81	122	+26	30	5th	26	14	0	0	0	0	1	—	0	—	—	—	
11. ENGLISH CHANNEL.																																
Guernsey.	Grange	21 21	9	173	68.0	55.6	61.8	-0.1	76	5th	49	31st	66.6	65.4	1.54	39	-27	14	16th	11	6	0	0	0	0	1	3	0	0	7.48	-0.33	52
	Villa Carey	8 8	8	180	68.4	56.1	62.3	-0.1	76	5th	50	31st	—	—	1.65	42	-20	14	16th	14	8	0	0	0	0	2	—	1	7.08	-0.79	49	
Jersey.	St. Aubins	18-7	7	25	68.0	57.3	62.7	-0.3	76	5th	47	31st	—	—	1.02	26	-36	11	16th	9	5	0	0	0	0	0	—	0	6.67	-1.07	46	
Scilly.	St. Mary's	18-7	7	131	65.2	56.4	60.8	0.0	71	9, 18	50	11, 22	—	—	3.54	90	+23	16	11th	21	14	0	0	0	0	4	—	0	5.30	-1.64	37	
Gibraltar	...	7 7	7	44	81.3	67.6	74.5	-1.7	91	3rd	61	11, 13	—	—	0.28	7	+4	7	30th	1	1	0	0	0	1	0	0	0	—	—	—	
Malta	...	18 7	7	195	84.2	73.3	78.8	—	93	1st	62	26th	—	—	0.23	6	—	3	25th	4	3	0	0	0	1	0	0	0	—	—	—	

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
AUGUST, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	6.14	-0.70	42
Hove ..	6.50	—	45
Watergate ..	5.68	—	39
LONDON, Bunhill Row	5.19	-0.13	36
Regent's Park	5.07	—	35
Plumstead ..	4.94	—	34

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	64	56	60.6	+1.0

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets: Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18-7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

Weather Phenomena.—The number of days of Precipitation, Snow, Hall, 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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871-1915; Temperature, Rainfall and Sunshine for the 35 years 1881-1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The Symbols ¶ § placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of August, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.				HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.						Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of AUGUST, 1921.

[illegible]

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours, at certain Stations during the Month of AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			Clear Sky.	Overcast.	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, AUGUST, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.			
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%
O. SCOTLAND, N.								2. ENGLAND, N.E.—cont.								8a. SOUTH WALES.										
Cath.	Thurso (Buckies)	...	240	3'60	91	—	Yk.,	Holme-upon-Spalding-Moor	...	35	3'55	90	—	Rad.	B'm'gham W.W. (Tyrmynydd)	...	832	6'25	159	116						
Suth.	Dornoch (St. Gilbert's)	...	35	1'44	37	—	E.R.	Lowthorpe (The Elms)	...	63	3'95	100	144	Cand.	Aberystwyth (Gogerddan)	...	83	6'22	158	122						
	Loch More (Achfary)	...	167	4'77	121	82	Line.	Boston (Black Sluice)	...	11	2'98	76	125		Devil's Bridge	...	825	8'28	210							
	Melvich Schoolhouse	...	—	2'68	68	90		Grantham (Saltersford)	...	188	3'41	87	—		Lampeter (Falcondale)	...	498	6'44	164							
	Tongue Manse	...	180	3'24	82	101		Horneastle	...	110	3'27	83	—		Tregaron (Maes-y-bettws)	...	910	8'50	216							
R. & C.	Alness (Ardross Castle)	...	450	2'21	56	75		Louth (Westgate)	...	120	3'78	96	135	Carm.	Carmarthen (The Friary)	...	62	5'88	149							
	Loch Carron (Plockton)	...	4	3'17	80	—								Llanddeusant (Pontorynfe)	...	323	6'86	174								
	Loch Torridon (Bendamph)	...	20	4'59	117	70								Cardiff, W.W. (Beacons Res.)	...	1340	10'99	279								
Inv.	Arisaig (Faire-na-Sguir)	...	130	4'23	107	—								Crickhowell (Tal-y-maes)	...	1250	4'50	114								
	Cluny Castle	...	900	4'16	106	—								Port Talbot (Twyn-yr-hydd)	...	180	4'27	109								
	Drumnadrochit	...	138	—	—	—								Treherbert (Tyn-y-waun)	...	801	9'46	240								
	Loch Arkaig (Achnacarry)	...	120	5'52	140	—																				
	Loch Quoich (Glenquoich)	...	569	5'77	147	70																				
	" (Loan)	...	650	10'60	269	—																				
	N. Ballachulish (Alltshellach)	...	80	5'86	149	—																				
	Skye (Dunvegan)	...	47	5'21	132	—																				
	" (Portree)	...	65	4'09	104	—																				
1. SCOTLAND, E.								3. ENGLAND, E.								8p. ENGLAND, S.W.										
Moray.	Grantown-on-Spey	...	700	3'47	88	108	Norfol.	Aylsham (Rippon Hall)	...	90	1'64	42	—	Mon.	Llanfrechfa Grange	...	326	3'24	82	84						
	Lhanbryde (Blackhills House)	...	300	—	—	—		Swaffham	...	250	1'42	36	55		Newport W.W. (Newchurch)	...	550	—	—	—						
Aber.	Aberdeen (Cranford House)	...	120	1'96	50	68		Thetford (Waterworks)	...	170	1'68	43	—	Som.	Brushford Rectory	...	450	2'42	61	—						
	Fyvie Castle	...	200	2'15	55	—	Suff.	Halesworth Rectory	...	50	0'96	24	—		Crewkerne (Merefield House)	...	231	1'80	46	—						
	Logie Coldstone (Loanhead)	...	743	2'27	58	73		Hawkedon Rectory	...	305	1'76	45	68		Cutecombe (Wheddon Cross)	...	945	2'85	72	—						
	Peterhead (Forehill Works)	...	133	1'67	42	—	Cambs.	Chatteris (The Priory)	...	45	1'04	26	—		North Cadbury Rectory	...	256	1'35	34	—						
Kinc.	Brechin (Trinity)	...	295	—	—	—		Ashwell (Odsey)	...	256	0'77	20	—	Devon.	Hartland Abbey	...	222	2'93	74	—						
Forf.	Glen Prosen (Pearsie House)	...	600	4'56	116	—		Parson Drove (Clows Cross)	...	13	1'37	35	—		Launceston (Polapit Tamar)	...	315	2'61	66	82						
	Montrose (Sunnyside Asylum)	...	200	1'85	47	66	Essex.	Elsenham (Gaunts End)	...	363	1'05	27	—		Penzance (Trenegwainton Ho.)	...	400	4'64	118	—						
Perth	Aberfeldy (Dall Avon)	...	320	4'45	113	—		Lexden (Hill House)	...	90	1'12	28	—	Corn.	St. Austell (Trevarna)	...	300	2'75	70	76						
	Balquhider (Stronvar)	...	422	—	—	—																				
	Blair Atholl	...	—	4'11	104	123																				
	Coupar Angus	...	183	3'99	101	121																				
	Glendevon (Glenquey Res.)	...	945	8'20	208	—																				
	Killin (The Manse)	...	400	6'23	158	—																				
	Kirkmichael (Ballintuin Ho.)	...	700	5'57	141	—																				
	Loch Dhu	...	325	9'60	244	142																				
	Loch Rannoch (Dall)	...	772	4'06	103	—																				
	Loch Venacher	...	275	7'20	183	126																				
Midl.	Balerno (Cockburn Hill)	...	767	5'07	129	—																				
Had.	North Berwick Reservoir	...	150	4'17	106	132																				
Selk.	Ettrick Manse	...	796	6'81	173	—																				
	Selkirk (The Hangingshaw)	...	670	—	—	—																				
Rox.	Hawick (Bransholme)	...	457	5'41	137	168																				
	Jedburgh (Jedneuk)	...	270	5'36	136	187																				
6. SCOTLAND, W.								5. ENGLAND, S.E.								9. IRELAND, N.										
Arg.	Dalmally (Manse of Glenorchy)	...	150	6'78	172	—	Mid.	Harrow Weald (Hill House)	...	284	1'81	46	—	Mayo.	Aasleagh House	...	30	7'89	200	—						
	Eriska (Ledaig)	...	30	4'72	120	—	Kent.	Sevenoaks (Speldhurst Close)	...	470	1'50	38	—		Crossmolina (Enniscoe)	...	74	4'65	118	103						
	Inveraray Castle Gardens	...	40	7'66	195	116		Tenterden (View Tower)	...	190	1'28	33	56		Delphi Lodge	...	110	9'55	243	—						
	Islay (Eallabus)	...	68	4'78	121	110		Surrey.	Reigate (Hartswood)	...	174	1'86	47	—		Westport House	...	35	3'79	96	—					
	Mull (Quinish)	...	35	4'16	106	85		Sussex.	Hailsham Vicarage	...	105	1'72	44	64	Galw'y.	Ballynahinch Castle	...	41	6'09	155	—					
	Poltalloch	...	132	5'92	150	—			Patching Farm	...	180	1'76	45	70		Galway (Grammar School)	...	60	5'04	128	—					
Bute.	Dougarie Lodge	...	10	5'55	141	—	Berks.	Ufton Nervet Rectory	...	308	1'75	44	—		Woodlawn	...	300	3'82	97	83						
Dumb.	Arrochar (Glen Loin)	...	50	7'56	192	—	Hants.	Ashley (Old Manor House)	...	235	1'48	38	—	Don.	Killybegs (Rockmount)	...	65	5'70	145	102						
Lank.	Biggar	...	691	5'82	148	—		Fordingbridge (Oaklands)	...	135	1'62	41	62		Letterkenny (District Asylum)	...	183	4'86	123	108						
Glas'w.	Queen's Park	...	114	5'84	148	165	Wilts.	Devizes (Highclere)	...	480	1'06	27	—		Milford (The Manse)	...	150	4'79	122	114						
Ayr.	Girvan (Pinnmore)	...	207	5'40	137	121									Narin (Kiltorish)	...	—	3'95	100	—						
	Maybole (Knockdon Farm)	...	352	6'17	157	—									Derry.	Londonderry (Creggan Res.)	...	320	4'75	121	102					
	New Cumnock (Ayr Sanat'm)	...	850	7'91	201	—									Ant.	Ballymena (Harryville)	...	150	4'02	102	94					
Dumf.	Durrisdeer (Drumlanrig)	...	191	7'85	199	—										Belfast (Cave Hill Road)	...	200	4'10	104	—					
	Hoddam Castle	...	150	—	—	—										Glenarm Castle	...	70	4'01	102	—					
	Langholm (Drove Road)	...	270	6'79	173	—										Tyrone.	Omagh (Edenfel)	...	280	3'58	91	84				
	Moniaive (Maxwelton House)	...	400	6'99	177	—											Sion Mills (Sion House)	...	100	3'69	94	—				
Kirk.	Carsphairn (Shiel)	...	850	9'77	248	—											Down.	Banbridge (Milltown)	...	200	3'92	100	112			
Wigt.	Stoneykirk (Ardwell House)	...	65	4'43	113	118												Mourne Mts. (Fofanny Res.)	...	938	4'57	116	—			
2. ENGLAND, N.E.								7a. ENGLAND, N.W.								10. IRELAND, S.										
Nor'd.	Ilderton (Lilburn)	...	340	5'07	129	191	Cumb.	Borrowdale (Seathwaite)	...	423	14'45	367	125					Seaford	...	180	4'00	102	107			
	Newcastle (Town Moor)	...	201	6'65	169	228	West.	Orton	...	770	7'76	197	—	Fer.	Enniskillen (Portora)	...	251	3'68	93	—						
Yk.,	Mickleton (Lime Kiln Pasture)	...	1175	3'60	91	112	Lancs.	Garstang (Holme H., Bleasdale)	...	650	7'77	197	—	Long.	Ballymahon (New Castle)	...	250	3'68	93	—						
N.R.	Pickering (Hungate Hall)	...	90	3'73	95	—		Grange-over-Sands (Holmcroft)	...	330	9'47	241	—	W.M.	Mullingar (Belvedere)	...	367	3'64	93	87						
	Scarborough (Scalby)	...	300	4'70	119	—		Lancaster (Strathspay)	...	87	7'35	187	—	Meath.	Drogheda (Mornington)	...	100	3'21	81	—						
								Nantwich (Dorfold Hall)	...	190	4'10	104	—													
								7b. NORTH WALES.																		

Name		Address		City		State		Country	
1. J. W. Smith		2. 123 Main St		3. New York		4. New York		5. United States	
2. M. J. Brown		3. 456 Elm St		4. Los Angeles		5. California		6. United States	
3. R. L. Green		4. 789 Oak St		5. Chicago		6. Illinois		7. United States	
4. S. K. White		5. 101 Pine St		6. San Francisco		7. California		8. United States	
5. T. H. Black		6. 202 Cedar St		7. Boston		8. Massachusetts		9. United States	
6. L. P. Gray		7. 303 Birch St		8. Philadelphia		9. Pennsylvania		10. United States	
7. C. D. Hall		8. 404 Spruce St		9. Washington		10. District of Columbia		11. United States	
8. B. N. King		9. 505 Willow St		10. St. Louis		11. Missouri		12. United States	
9. F. G. Lee		10. 606 Ash St		11. Portland		12. Oregon		13. United States	
10. H. M. Scott		11. 707 Hickory St		12. Denver		13. Colorado		14. United States	
11. K. J. Adams		12. 808 Sycamore St		13. Salt Lake City		14. Utah		15. United States	
12. N. L. Baker		13. 909 Magnolia St		14. Las Vegas		15. Nevada		16. United States	
13. O. P. Carter		14. 1010 Poplar St		15. Albuquerque		16. New Mexico		17. United States	
14. Q. R. Evans		15. 1111 Chestnut St		16. Santa Fe		17. New Mexico		18. United States	
15. R. S. Foster		16. 1212 Walnut St		17. Phoenix		18. Arizona		19. United States	
16. T. U. Gibson		17. 1313 Elm St		18. Tucson		19. Arizona		20. United States	
17. V. W. Harris		18. 1414 Oak St		19. Flagstaff		20. Arizona		21. United States	
18. X. Y. Jones		19. 1515 Pine St		20. Sedona		21. Arizona		22. United States	
19. Z. A. King		20. 1616 Cedar St		21. Prescott		22. Arizona		23. United States	
20. A. B. Lee		21. 1717 Birch St		22. Yuma		23. Arizona		24. United States	
21. C. D. Scott		22. 1818 Spruce St		23. Bismarck		24. North Dakota		25. United States	
22. E. F. Adams		23. 1919 Willow St		24. Grand Forks		25. North Dakota		26. United States	
23. G. H. Baker		24. 2020 Ash St		25. Minot		26. North Dakota		27. United States	
24. I. J. Carter		25. 2121 Hickory St		26. Bismarck		27. North Dakota		28. United States	
25. K. L. Evans		26. 2222 Walnut St		27. Grand Forks		28. North Dakota		29. United States	
26. M. N. Foster		27. 2323 Elm St		28. Minot		29. North Dakota		30. United States	
27. O. P. Gibson		28. 2424 Oak St		29. Bismarck		30. North Dakota		31. United States	
28. Q. R. Harris		29. 2525 Pine St		30. Grand Forks		31. North Dakota		32. United States	
29. S. T. Jones		30. 2626 Cedar St		31. Minot		32. North Dakota		33. United States	
30. U. V. King		31. 2727 Birch St		32. Bismarck		33. North Dakota		34. United States	
31. W. X. Lee		32. 2828 Spruce St		33. Grand Forks		34. North Dakota		35. United States	
32. Y. Z. Scott		33. 2929 Willow St		34. Minot		35. North Dakota		36. United States	
33. A. B. Adams		34. 3030 Ash St		35. Bismarck		36. North Dakota		37. United States	
34. C. D. Baker		35. 3131 Hickory St		36. Grand Forks		37. North Dakota		38. United States	
35. E. F. Carter		36. 3232 Walnut St		37. Minot		38. North Dakota		39. United States	
36. G. H. Evans		37. 3333 Elm St		38. Bismarck		39. North Dakota		40. United States	
37. I. J. Foster		38. 3434 Oak St		39. Grand Forks		40. North Dakota		41. United States	
38. K. L. Gibson		39. 3535 Pine St		40. Minot		41. North Dakota		42. United States	
39. M. N. Harris		40. 3636 Cedar St		41. Bismarck		42. North Dakota		43. United States	
40. O. P. Jones		41. 3737 Birch St		42. Grand Forks		43. North Dakota		44. United States	
41. Q. R. King		42. 3838 Spruce St		43. Minot		44. North Dakota		45. United States	
42. S. T. Lee		43. 3939 Willow St		44. Bismarck		45. North Dakota		46. United States	
43. U. V. Scott		44. 4040 Ash St		45. Grand Forks		46. North Dakota		47. United States	
44. W. X. Adams		45. 4141 Hickory St		46. Minot		47. North Dakota		48. United States	
45. Y. Z. Baker		46. 4242 Walnut St		47. Bismarck		48. North Dakota		49. United States	
46. A. B. Carter		47. 4343 Elm St		48. Grand Forks		49. North Dakota		50. United States	
47. C. D. Evans		48. 4444 Oak St		49. Minot		50. North Dakota		51. United States	
48. E. F. Foster		49. 4545 Pine St		50. Bismarck		51. North Dakota		52. United States	
49. G. H. Gibson		50. 4646 Cedar St		51. Grand Forks		52. North Dakota		53. United States	
50. I. J. Harris		51. 4747 Birch St		52. Minot		53. North Dakota		54. United States	
51. K. L. Jones		52. 4848 Spruce St		53. Bismarck		54. North Dakota		55. United States	
52. M. N. King		53. 4949 Willow St		54. Grand Forks		55. North Dakota		56. United States	
53. O. P. Lee		54. 5050 Ash St		55. Minot		56. North Dakota		57. United States	
54. Q. R. Scott		55. 5151 Hickory St		56. Bismarck		57. North Dakota		58. United States	
55. S. T. Adams		56. 5252 Walnut St		57. Grand Forks		58. North Dakota		59. United States	
56. U. V. Baker		57. 5353 Elm St		58. Minot		59. North Dakota		60. United States	
57. W. X. Carter		58. 5454 Oak St		59. Bismarck		60. North Dakota		61. United States	
58. Y. Z. Evans		59. 5555 Pine St		60. Grand Forks		61. North Dakota		62. United States	
59. A. B. Foster		60. 5656 Cedar St		61. Minot		62. North Dakota		63. United States	
60. C. D. Gibson		61. 5757 Birch St		62. Bismarck		63. North Dakota		64. United States	
61. E. F. Harris		62. 5858 Spruce St		63. Grand Forks		64. North Dakota		65. United States	
62. G. H. Jones		63. 5959 Willow St		64. Minot		65. North Dakota		66. United States	
63. I. J. King		64. 6060 Ash St		65. Bismarck		66. North Dakota		67. United States	
64. K. L. Lee		65. 6161 Hickory St		66. Grand Forks		67. North Dakota		68. United States	
65. M. N. Scott		66. 6262 Walnut St		67. Minot		68. North Dakota		69. United States	
66. O. P. Adams		67. 6363 Elm St		68. Bismarck		69. North Dakota		70. United States	
67. Q. R. Baker		68. 6464 Oak St		69. Grand Forks		70. North Dakota		71. United States	
68. S. T. Carter		69. 6565 Pine St		70. Minot		71. North Dakota		72. United States	
69. U. V. Evans		70. 6666 Cedar St		71. Bismarck		72. North Dakota		73. United States	
70. W. X. Foster		71. 6767 Birch St		72. Grand Forks		73. North Dakota		74. United States	
71. Y. Z. Gibson		72. 6868 Spruce St		73. Minot		74. North Dakota		75. United States	
72. A. B. Harris		73. 6969 Willow St		74. Bismarck		75. North Dakota		76. United States	
73. C. D. Jones		74. 7070 Ash St		75. Grand Forks		76. North Dakota		77. United States	
74. E. F. King		75. 7171 Hickory St		76. Minot		77. North Dakota		78. United States	
75. G. H. Lee		76. 7272 Walnut St		77. Bismarck		78. North Dakota		79. United States	
76. I. J. Scott		77. 7373 Elm St		78. Grand Forks		79. North Dakota		80. United States	
77. K. L. Adams		78. 7474 Oak St		79. Minot		80. North Dakota		81. United States	
78. M. N. Baker		79. 7575 Pine St		80. Bismarck		81. North Dakota		82. United States	
79. O. P. Carter		80. 7676 Cedar St		81. Grand Forks		82. North Dakota		83. United States	
80. Q. R. Evans		81. 7777 Birch		82. Minot		83. North Dakota		84. United States	

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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SEPTEMBER, 1921; MOSTLY FINE AND WARM.

The fine and warm weather, which has proved so characteristic a feature of the present year, but which received a temporary check during August, was again in evidence during the greater part of September.

The last of a series of depressions which had travelled across the British Isles during August was situated off the north-west of Ireland during the opening hours of September and brought rain to all districts. As this depression travelled away in a north-easterly direction towards Scandinavia a marked improvement set in, especially over the southern districts where the conditions became anticyclonic. In south-east England there were about ten hours of bright sunshine for many days in succession, which were accompanied by a gradual increase of afternoon temperatures. On the 4th, maxima reached 29.7a and on the 6th 30.0a, whilst on the 9th a temperature of 30.3a was recorded at Southend. With clear skies there was considerable nocturnal radiation, and ground frost occurred locally on the 4th. The diurnal range of temperature was large and exceeded 22a at many inland stations. The night of the 9th-10th was unusually warm, the temperature remaining above 28.9a at many stations in the south and south-east of England. A depression which appeared off the north-west of Ireland on the 4th brought unsettled weather to the northern districts, but fine weather continued in the south until the 10th.

A depression which lay off the north-west of these islands on the 9th travelled in an easterly direction and proved to be the precursor of less settled conditions over the whole kingdom. On the 10th maxima were 10a lower than on the previous day and rain became general. On the night of 11th-12th a well marked secondary depression passed rapidly up the Channel and caused severe gales and thunderstorms over a wide area. In London 50mm. of rain were recorded early on the morning of the 12th. During the greater part of the succeeding week with pressure high in the Icelandic region conditions were favourable for the passage of depressions across these islands. One which travelled across Scotland brought rain to most districts and caused gales in the Channel. Heavy precipitation was usually confined to the north and north-west. On the 16th and 17th a shallow depression which travelled northwards from Spain caused strong easterly gales in the Channel and a thunderstorm at Jersey with 22mm. of rain. After the 15th the Icelandic anticyclone gradually drifted towards the east and with conditions becoming favourable for depressions to pursue a more northerly course, the weather gradually improved over the southern parts of the kingdom. Morning mist and fog were prevalent, especially in the south and south-east of England, and on the 19th a dense gloom was experienced over a wide area. A thick fog continued all day at Scilly and Pembroke on the 22nd. Except in the extreme north-west where the influence of occasional depressions in the neighbourhood of Iceland was felt, conditions were anticyclonic for the remainder of the month. The days were mostly warm and sunny, the nights cold and sometimes frosty. Ground frosts occurred locally towards the end of the month.

In London (Camden Square) the mean temperature was 28.8a or 1.6a above the average. This was the thirteenth successive month with a mean temperature in excess of the normal.

In Scotland changes of temperature were well defined, and as might be expected were highest during the northward extension of the southern anticyclone during the early part of the month. A temperature of 30.0a was recorded at West Linton on the 9th. The nights during this period were very warm. A reaction occurred with the approach of a depression towards the north-western coasts on the 9th, and cooler and less settled weather became general. The lowest readings occurred over an extensive area on the 12th and 13th and locally on the 17th. The nights were on the whole mild. The lowest temperature recorded anywhere during the month was 27.2a at Balmoral on the night of the 11th-12th, and at Fort Augustus and Strathpeffer on the night of the 17th-18th. In nearly every September during the last sixty years the thermometer has fallen to some lower level. The month was in many districts the warmest since 1901, though in 1906 and again in 1917 it was nearly as warm. Rainfall, which was general at the beginning of the month and was followed by dry weather during the anticyclonic period, again became prevalent from the 9th to the 14th. On the 10th at Glen Etive in Argyll 58mm. were recorded, and 25mm. at Greenock and Langholm on the 13th. During the latter half of the month many districts were practically rainless, though Icelandic depressions caused unsettled weather in the north on the 21st and 25th. Except in the far north aggregates were everywhere deficient, especially in the east. The total rainfall of 24mm. at Aberdeen was the least received in any September during the last fifty years with the exception of 1894 when the total fall was only 15mm. At many stations the greater part of the month's total was accounted for by heavy falls on the 1st and 13th. On the former

date thunder occurred in several districts. Thunderstorms also occurred at Fort William and Oban on the 10th. The duration of bright sunshine was above the normal in the south but deficient towards the north. At Deerness it was the most cloudy September experienced during the last forty years with the exception of 1913.

In Dublin, with the exception of a broken spell from the 9th to the 14th, the month was on the whole fine and warm. Nearly half the total rainfall for the month was registered on the 12th when there was a fall of 16mm. Both in the north and south of Ireland temperature and sunshine were above the normal, but there was a marked deficiency of precipitation.

The following notes by observers illustrate the generally warm and dry character of the month and the persistent nature of these characteristics during the present year. IPSWICH (Suffolk).—The smallest number of wet days in any September here during the last twenty years, the previous lowest being six days in 1911. The mean temperature of 28.8a is the highest in the past twenty years, except 28.4 in 1911. The total rainfall for the year now amounts to 254mm. on 78 days, compared with the previous lowest in 1911 of 297mm. on 102 days. RAUNDS (Northants).—On the 8th and 9th a maximum temperature of 30.2a was recorded, the latter being the twenty-third day this year with a temperature of 30.0a or above. TOTLAND BAY (Isle of Wight).—The eighth month in succession with less than the normal rainfall.

Air Pressure.—The general distribution of pressure was of a somewhat unusual type, and was everywhere in excess of the normal. This was especially the case in the south-east of the kingdom which was included in the central area of an anticyclonic wedge embracing central Europe. The tracks of nearly all depressions lay to the north-west of these islands. The most striking exception was that of a well developed secondary which appeared off Lands End on the evening of the 11th (see Map track E) and travelling rapidly up the Channel was centred over London at 1h. on the 12th and had reached the Netherlands at 7h. It was associated with torrential rain exceeding 50mm. in parts of London. Tottenham registered 53mm. At the telegraphic reporting stations the departure of the monthly means of pressure from the normal varied from +4.4mb. at Yarmouth to +2.4mb. at Nairn. The highest reading recorded during the month was 1037mb. at Lerwick and Aberdeen on the 18th, and the lowest 980mb. at Lerwick on the 11th.

Temperature.—The mean temperature of the month was above the normal in all districts. The excess ranged from 0.2a in Scotland North to 1.7a in England East.

Precipitation.—The rainfall of the month was below the normal over practically the whole of the British Isles. Less than half the normal amount fell in the districts bordering the south coast and over the greater part of England and North Wales. There was an excess in the extreme south of Wales and over most of the Thames Valley, mainly due to the thunderstorm of the 11th-12th when from 25-50mm. fell over a wide area. In Scotland the deficiency was most marked along the east coast, where less than half the average fall was registered. The rainfall in Ireland was everywhere below the average, but approached it most closely in the central plain. Areas with less than 25mm. were confined almost entirely to England, especially the south and east coasts and on the Welsh border. Monthly totals of more than 100mm. fell locally in Wales, the English Lake District and Kerry, and over a considerable area in the north-west of Scotland. More than 250mm. fell at Loch Quoich. At Loch More as much as 84mm. were registered on the 3rd. For eight successive months less than half the average has fallen over a large area in south-east England. The general rainfall for September, expressed as a percentage of the average was: England and Wales 54; Scotland 81; Ireland 53; British Isles 64.

Sunshine.—Insolation was above the normal in all districts with the exception of Scotland North where there was a deficiency of 0.79hr. per day. The excess ranged from 0.17hr. per day in Scotland East to 1.32hr. in England North-West.

Optical Phenomena.—Solar halos were frequently reported from different parts of the kingdom and lunar halos were seen at Oxford on the 9th and 12th. A parhelia was observed at Oxford on the 12th. Lunar rainbows were observed at Ross on Wye on the 10th, at Rothesay and at Eskdalemuir on the 14th, and at Eskdalemuir again on the 15th. Aurora was seen at Lerwick, Deerness and Wick on the 28th, and at Lerwick again on the 29th.

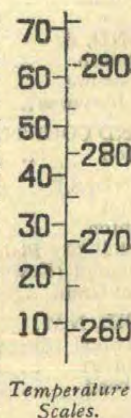


TABLE I.—DISTRICT VALUES—SEPTEMBER, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.				SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL.			
	Highest.	Lowest.	Means of				At 1 ft.	Deviation from Average.	At 4 ft.	Deviation from Average.	Total.	Deviation from Normal.	Number of Days.	Daily Mean.	Deviation from Normal.	Per cent.	I.	II.	III.	Highest.	Date.	Lowest.	Date.	
			Daily Max.	Daily Min.	Daily Mean	Deviation from Normal.																		
0. SCOTLAND, NORTH ...	73	30	200+ 87.2	200+ 81.3	200+ 84.2	+0.2	84.8	-0.6	—	—	4.01	102	+ 6	19	2.70	-0.79	21	8.0	8.1	7.7	mb.		mb.	
Eastern.																								
1. SCOTLAND, EAST ...	81	30	88.7	81.1	84.9	+0.6	85.4	—	85.2	+0.5	1.45	37	- 20	11	4.23	+0.17	33	6.8	6.3	6.7	1037	18	988	11
2. ENGLAND, N.E. ...	80	32	91.3	82.8	87.1	+1.6	86.8	+0.7	86.9	+0.7	0.88	22	- 22	7	5.50	+0.89	43	5.7	6.2	6.0	1037	18	988	11
3. ENGLAND, EAST ...	86	32	92.9	83.2	88.1	+1.7	88.6	+1.3	88.7	+1.3	1.54	39	- 9	7	5.71	+0.56	45	5.7	6.0	4.4	1033	18	997	10
4. MIDLAND COUNTIES ...	85	30	92.6	81.9	87.2	+1.4	87.4	+0.9	87.4	+0.8	1.40	36	- 13	7	5.44	+0.93	43	5.6	5.6	4.6	1032	27	1000	12
5. ENGLAND, S.E. ...	86	31	93.3	83.6	88.5	+1.4	88.7	+1.2	88.9	+1.2	1.01	26	- 28	6	6.03	+0.60	48	5.5	5.1	4.4	1031	27	1005	10, 11
Western.																								
6. SCOTLAND, WEST ...	74	31	89.6	82.2	85.9	+1.0	86.3	+0.3	86.2	-0.1	2.49	64	- 29	13	—	—	—	7.3	7.7	7.4	mb.		mb.	
7. ENGLAND, N.W. ...	81	34	90.7	83.1	86.9	+1.1	87.0	+0.9	87.1	+0.7	1.67	42	- 28	8	5.78	+1.32	46	6.6	5.7	5.8	1037	18	998	11
8. ENGLAND, S.W. ...	82	33	92.2	83.7	87.9	+1.4	89.0	+1.0	89.0	+0.6	1.69	43	- 28	7	5.70	+0.74	45	5.7	6.0	4.4	1031	27	1002	10
9. IRELAND, NORTH ...	73	33	89.5	82.8	86.2	+0.9	87.0	+0.3	86.7	+0.1	1.70	43	- 32	13	4.07	+0.22	32	6.8	6.8	6.4	1033	27	999	10
10. IRELAND, SOUTH ...	77	30	90.6	83.4	87.0	+0.9	87.7	+0.5	87.3	+0.4	1.64	42	- 29	11	4.84	+0.39	38	6.0	7.1	6.0	1031	18, 24	997	9
11. ENGLISH CHANNEL ...	79	47	92.9	86.3	89.7	+1.5	91.0	+1.8	90.6	+1.3	0.86	22	- 39	8	7.09	+0.98	56	5.3	4.1	2.6	mb.		mb.	
Mean: DISTRICTS 1-10..	86	30	91.1	82.8	87.0	+1.2	87.4	+0.8	87.3	+0.6	1.55	39	- 24	9	5.26	+0.65	41	6.2	6.1	5.6	1037	22	1003	11
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

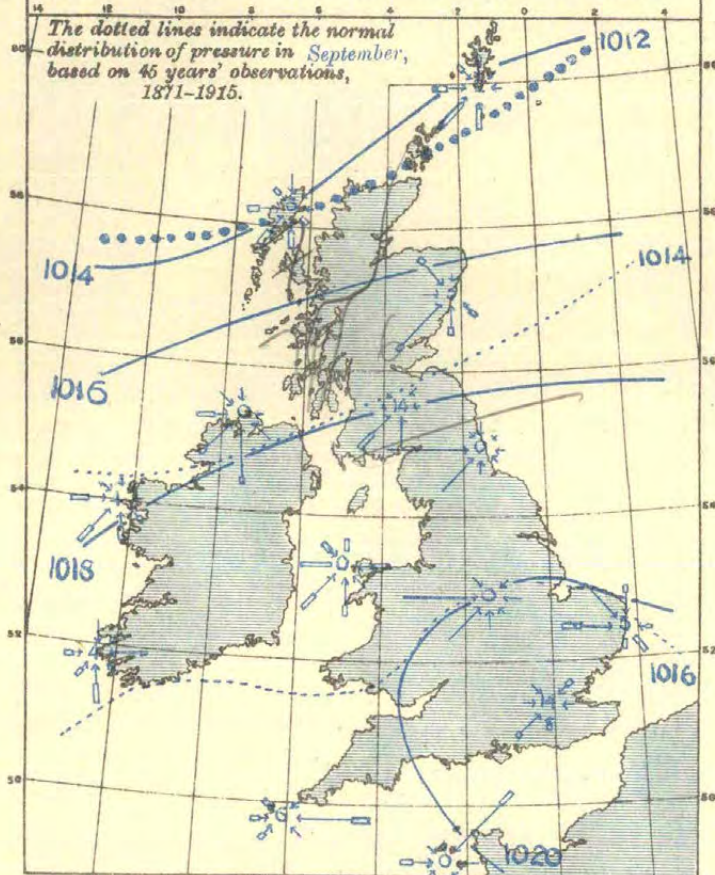
TABLE II.—SUMMARY OF AEROGRAPHIC RECORDS.																								
DISTRICTS.	Highest.	Lowest.	Means of				At 1 ft.	Deviation from Average.	At 4 ft.	Deviation from Average.	Total.	Deviation from Normal.	Number of Days.	Daily Mean.	Deviation from Normal.	Per cent.	I.	II.	III.	Highest.	Date.	Lowest.	Date.	
			Daily Max.	Daily Min.	Daily Mean	Deviation from Normal.																		
0. SCOTLAND, NORTH ...	73	30	200+ 87.2	200+ 81.3	200+ 84.2	+0.2	84.8	-0.6	—	—	4.01	102	+ 6	19	2.70	-0.79	21	8.0	8.1	7.7	mb.		mb.	
Eastern.																								
1. SCOTLAND, EAST ...	81	30	88.7	81.1	84.9	+0.6	85.4	—	85.2	+0.5	1.45	37	- 20	11	4.23	+0.17	33	6.8	6.3	6.7	1037	18	988	11
2. ENGLAND, N.E. ...	80	32	91.3	82.8	87.1	+1.6	86.8	+0.7	86.9	+0.7	0.88	22	- 22	7	5.50	+0.89	43	5.7	6.2	6.0	1037	18	988	11
3. ENGLAND, EAST ...	86	32	92.9	83.2	88.1	+1.7	88.6	+1.3	88.7	+1.3	1.54	39	- 9	7	5.71	+0.56	45	5.7	6.0	4.4	1033	18	997	10
4. MIDLAND COUNTIES ...	85	30	92.6	81.9	87.2	+1.4	87.4	+0.9	87.4	+0.8	1.40	36	- 13	7	5.44	+0.93	43	5.6	5.6	4.6	1032	27	1000	12
5. ENGLAND, S.E. ...	86	31	93.3	83.6	88.5	+1.4	88.7	+1.2	88.9	+1.2	1.01	26	- 28	6	6.03	+0.60	48	5.5	5.1	4.4	1031	27	1005	10, 11
Western.																								
6. SCOTLAND, WEST ...	74	31	89.6	82.2	85.9	+1.0	86.3	+0.3	86.2	-0.1	2.49	64	- 29	13	—	—	—	7.3	7.7	7.4	mb.		mb.	
7. ENGLAND, N.W. ...	81	34	90.7	83.1	86.9	+1.1	87.0	+0.9	87.1	+0.7	1.67	42	- 28	8	5.78	+1.32	46	6.6	5.7	5.8	1037	18	998	11
8. ENGLAND, S.W. ...	82	33	92.2	83.7	87.9	+1.4	89.0	+1.0	89.0	+0.6	1.69	43	- 28	7	5.70	+0.74	45	5.7	6.0	4.4	1031	27	1002	10
9. IRELAND, NORTH ...	73	33	89.5	82.8	86.2	+0.9	87.0	+0.3	86.7	+0.1	1.70	43	- 32	13	4.07	+0.22	32	6.8	6.8	6.4	1033	27	999	10
10. IRELAND, SOUTH ...	77	30	90.6	83.4	87.0	+0.9	87.7	+0.5	87.3	+0.4	1.64	42	- 29	11	4.84	+0.39	38	6.0	7.1	6.0	1031	18, 24	997	9
11. ENGLISH CHANNEL ...	79	47	92.9	86.3	89.7	+1.5	91.0	+1.8	90.6	+1.3	0.86	22	- 39	8	7.09	+0.98	56	5.3	4.1	2.6	mb.		mb.	
Mean: DISTRICTS 1-10..	86	30	91.1	82.8	87.0	+1.2	87.4	+0.8	87.3	+0.6	1.55	39	- 24	9	5.26	+0.65	41	6.2	6.1	5.6	1037	22	1003	11
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—SEPTEMBER, 1921. [1914.]

TABLE I.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—SEPTEMBER, 1921. [1914.]																			
DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.							
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.					
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.	Speed.	Date.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.	d.	h.	m.
0. SCOTLAND, N.																			
Deerness (Cup Anr.) ...	188	16	5	15	2	8	43	310	317	48	0	270	18	15	2	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	—	0	7	416	297	0	210	6	22	15	16	15	3	10
Aberdeen (Cup Anr.) ...	120	72	12	—	0	—	0	80	529	111	0	130	10	14	{8}	—	—	—	—
Balmakewan ...	140	25	18	—	0	—	0	162	374	167	17	260	11	11	{9}	—	—	—	—
Rosyth ...	85	73	19	—	0	5	42	156	383	115	24	220	16	14	20	27	11	5	25
Edinburgh ...	485	39	31	—	0	4	22	122	425	151	0	240	15	14	21	23	11	4	10
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	0	6	36	137	275	270	2	250	15	14	20	23	14	18	0
Paisley ...	188	81	15	—	0	—	0	98	457	152	13	280	11	15	1	23	15	2	35
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	0	—	0	11	276	265	168	230	7	22	20	15	15	0	10
South Shields ...	72	61	12	—	0	1	7	76	407	230	0	270	17	11	12	20	11	10	35
Spurn Head ...	66	40	†	—	Instrument	dismounted.	6	131	372	207	4	—	13	14	12	17	14	7	45
Cranwell ...	278	43	31	—	0	1	4	122	263	331	0	250	12	11	13	17	11	12	30
Howden ...	61	41	29	—	0	1	4	122	263	331	0	250	12	11	13	17	11	12	30
3. ENGLAND, E.																			
Gorleston ...	52	42	†	—	0	5	44	172	354	150	0	120	15	18	8	19	18	8	45
Felixstowe ...	58	40	23	—	0	4	19	178	428	95	0	350	14	12	3	20	12	3	0
Shoeburyness ...	103	90	†	—	0	4	27	135	321	204	33	—	13	12	3	19	12	2	55
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	—	0	83	303	333	1	230	10	14	11	18	14	10	50
5. ENGLAND, S.E.																			
Calshot ...	45	40	31	—	Instrument	dismantled.	6	137	465	105	7	—	14	12	2	28	12	1	20
Brighton ...	261	53	6	—	0	3	15	206	442	52	5	360	16	11	23	20	11	23	5
Larkhill (S'y Plain) ...	513	63	43	—	0	4	4	96	278	342	0	80	12	17	10	21	12	1	0
Richmond (Kew Obs.) ...	82	65	22	—	0	1	4	96	278	342	0	80	12	17	10	21	12	1	0
Isle of Grain ...	65	45	30	—	Defective	Records.	4	96	278	342	0	80	12	17	10	21	12	1	0
7. ENGLAND, N.W.																			
Fleetwood (Cup. Anr.) ...	109	44	—	—	0	7	60	175	427	58	0	290	15	15	2	—	—	—	—
Southport ...	80	62	48	—	0	6	72	190	382	76	0	250	16	11	6	21	11	7	30
Holyhead ...	60	40	†	—	0	7	44	288	336	44	8	80	14	17	14	20	14	6	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	13, 16, 17	29	12	115	215	255	65	41	70	22	17	5	26	17	12	10
Plymouth ...	185	88	2	—	0	2	11	160	304	127	118	—	13	11	19	20	17	6	30
Lyne Regis ...	556	61	†	—	0	—	0	113	298	309	0	—	11	11	22	17	11	22	0
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	—	0	6	41	183	360	136	0	70	14	17	18	—	—	—	—
Quilty ...	100	40	†	—	0	2	14	294	334	78	0	—	12	10	14	19	10	14	55
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	2	4	163	396	157	0	230	12	12	24	18	12	21	10
Weaver Pt. ...	160	30	†	—	0	4	13	162	471	74	0	—	12	14	3	20	{14}	2	35
Baldonnell ...	321	42	31	—	0	—	0	172	282	266	0	{210}	11	{9 20}	18	{17}	12	20	20
11. ENGLISH CHANNEL.																			
Scilly (Cup Anr.) ...	150	19	—	—	0	4	24	189	306	201	0	280	14	12	2	—	—	—	—

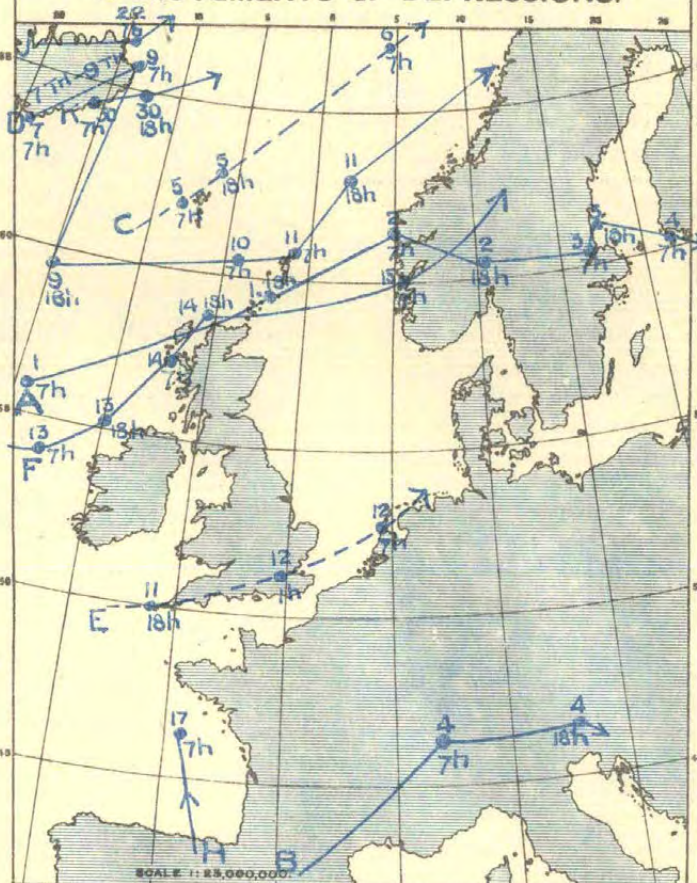
†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]
 *Above tops of trees. † Standard mounting. ‡ Direction from the Robinson Anemometer at Falmouth Observatory.

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



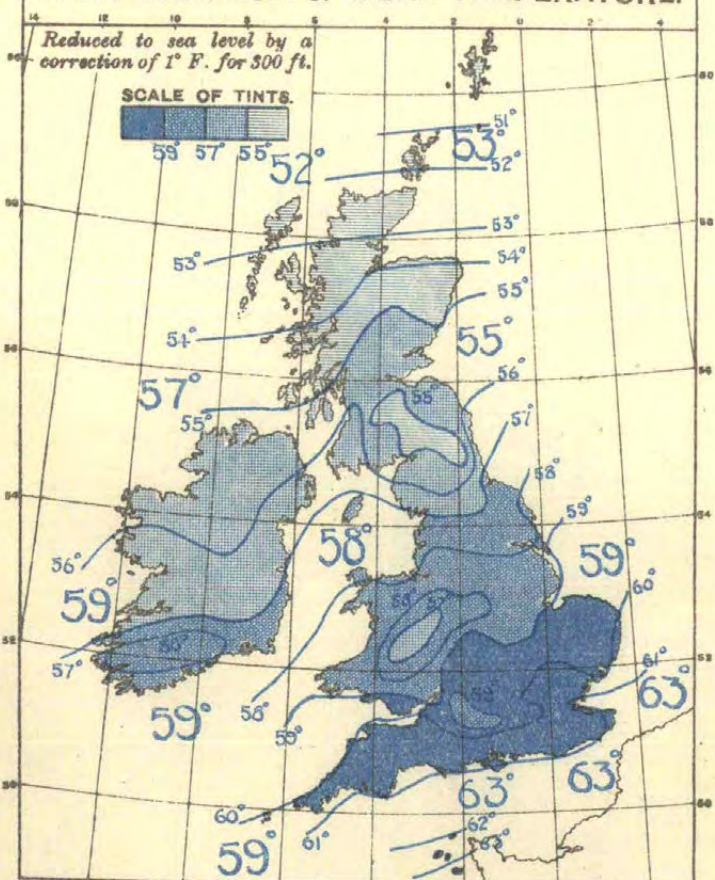
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 10 30 OBS. 1 inch

2. MOVEMENTS OF DEPRESSIONS.



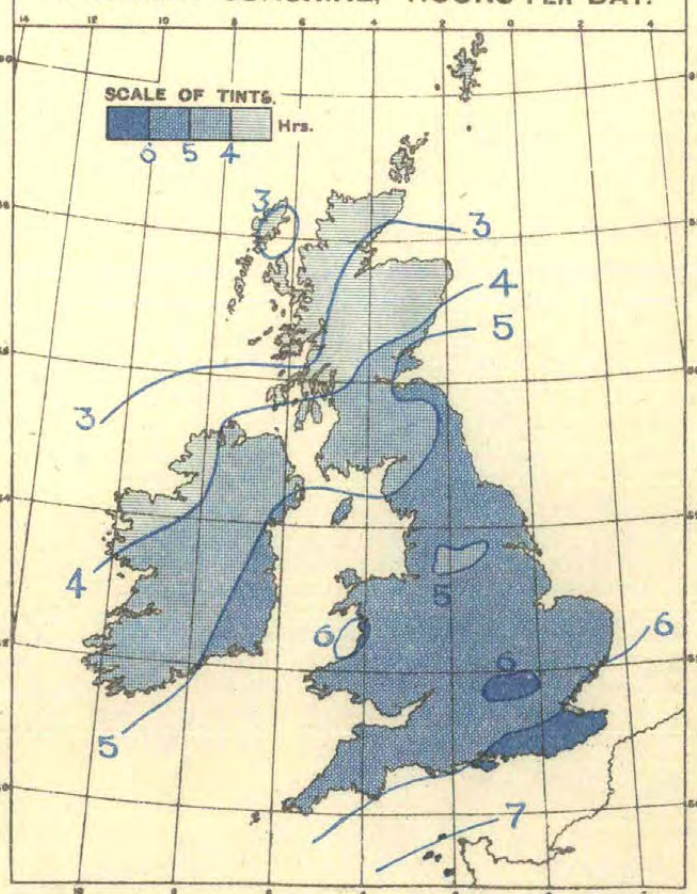
Broken lines show tracks of secondary depressions

3. DISTRIBUTION OF MEAN TEMPERATURE.



Sea temperatures are shown in large figures, thus: 63°

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

PS.3676/362. Wk.37. D.617/R.147. 1350.10/21.

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.					
									Maximum.	Date.	Minimum.	Date.															Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.	
																																A	B	Mean of A and B.
Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.						
0. SCOTLAND, N.																																
Shetlands.	Baltasound	9 9	9 31	54.2	45.7	50.0	—	63	7th	38	30th	50.7	—	3.20	81	—	10	4th	27	18	0	0	1	0	7	—	3	hr.	hr.	%		
	Lerwick	18—7	7 54	53.0	46.5	49.8	—0.8	59	7th	37	30th	—	—	3.53	90	+14	19	14th	21	16	0	0	0	0	8	—	4	2.40	—	19		
Orkneys.	Deerness	21 21	9 160	54.8	47.1	51.0	—0.4	63	7th	40	13, 16	—	—	3.79	96	+22	16	3rd	22	17	0	0	0	0	3	—	1	2.10	—1.40	16		
Hebrides.	Kirkwall	9 9	9 100	55.6	47.7	51.7	—	68	7th	38	14th	—	—	4.00	102	—	18	3rd	23	17	0	0	0	0	1	—	0	—	—	—		
	Castlebay	18—7	7 37	55.8	51.8	53.8	—	60	1st	46	13th	—	—	1.44	37	—	8	19th	21	14	0	0	0	0	8	—	0	2.90	—	23		
	Stornoway	18—7	7 51	56.7	48.2	52.5	+0.5	62	7th	36	29th	—	—	4.64	118	+18	31	3rd	22	16	0	0	0	0	0	—	0	3.30	+0.53	26		
Caithness.	Wick ...	18—7	7 81	56.7	47.3	52.0	+0.1	69	7th	37	29th	—	—	3.18	81	+17	23	15th	21	11	0	0	0	0	2	0	—	—	—	—		
Sutherland.	Dunrobin	8 8	8 12	59.0	47.2	53.1	+0.6	70	7th	36	14th	54.2	—	1.94	49	—12	8	3rd	15	14	0	0	0	0	0	—	—	—	—	—		
Ross and Cromarty.	Fortrose	9 9	9 69	59.3	47.3	53.3	—	70	7, 8	33	18th	—	—	0.67	17	—	5	13th	11	5	0	0	0	0	0	—	—	3.80	—	30		
	Glencarron	21 21	9 500	57.0	45.5	51.3	—0.4	67	7th	32	18th	—	—	6.85	174	—18	—	—	20	19	0	0	0	0	0	—	—	—	—	—		
	Strathpeffer	9 9	9 125	57.0	45.5	52.1	—0.7	73	7th	30	18th	—	—	1.71	43	—13	8	1st	14	11	0	0	0	0	0	—	—	—	—	—		
Inverness.	Ft. Augustus	8 8	8 68	59.9	46.9	53.4	+0.7	68	7th	30	18th	—	—	2.69	68	—18	11	10, 21	14	12	0	0	0	0	5	—	2	—	—	—		
	Ft. William	21 21	9 171	59.2	47.9	53.6	+0.1	70	7th	36	18th	—	—	5.49	139	—21	24	10th	22	17	0	0	0	1	3	—	—	—	—	—		
	Inverness	21 21	9 98	59.9	48.2	54.1	—	70	7th	32	18th	54.9	—	2.07	53	—5	19	2nd	17	8	0	0	0	0	0	1	3.87	—	30	—		
1. SCOTLAND, E.																																
Nairn.	Nairn	18—7	7 82	60.1	45.8	53.0	+0.3	73	7th	31	18th	—	—	1.21	31	—25	4	14th	18	13	0	0	0	0	0	—	—	3.75	—	29		
Elgin.	Gordon Castle	21 21	9 101	61.5	47.1	54.3	+1.1	75	7th	31	18th	—	—	1.18	30	—34	4	12, 13, 14	14	12	0	0	0	0	0	—	—	—	—	—		
Banff.	Banff ...	17—9	9 6	60.6	48.0	54.3	—	77	7th	38	14th	—	—	1.36	35	—	7	25th	16	10	0	0	0	1	0	—	—	3.70	—	29		
Aberdeen.	Aberdeen	24 24	24 46	60.3	49.6	55.0	+1.9	72	7th	41	13th	—	53.7	0.97	25	—31	9	14th	12	7	0	0	0	0	2	1	0	3.97	—0.16	31		
	Balmoral	9 9	9 930	59.0	43.6	51.3	—	70	7th	30	12th	—	—	1.01	26	—34	8	13th	11	8	0	0	0	0	1	4	—	—	—	—		
	Braemar	21 21	9 1120	59.0	44.0	51.5	+1.6	69	8th	32	18th	—	—	1.18	30	—34	11	13th	9	9	0	0	0	0	0	2	—	—	—	—		
Kincardine.	Logie Coldstone	9 9	9 608	60.8	45.1	53.0	—	74	7th	32	12th	—	—	0.97	25	—34	9	13th	11	8	0	0	0	1	0	4	—	—	—	—		
	Crathes...	9 9	9 269	61.9	46.1	54.0	+1.6	73	7th	35	12, 13	52.0	51.7	0.71	18	—	6	13th	16	5	0	0	0	1	0	3	0	3.63	—0.20	28		
Forfar.	Arbroath	8 8	8 67	62.1	48.3	55.2	—	71	5, 7	38	13th	—	—	0.91	23	—	15	13th	8	5	0	0	0	0	1	—	—	—	—	—		
	Carnoustie	9 9	9 39	61.7	47.1	54.4	—	74	7th	38	13th	—	—	1.15	29	—	15	13th	11	5	0	0	0	0	0	—	—	5.43	—	43		
	Dundee E. Nee	21 21	9 160	62.1	47.8	55.0	+1.5	75	8th	37	12th	—	—	1.71	43	—10	22	13th	13	7	0	0	0	0	0	—	—	—	—	—		
	„ Coll. Gdns.	9 9	9 244	61.6	46.5	54.1	—	73	7, 8	33	12th	55.0	—	1.58	40	—	22	13th	12	6	0	0	0	1	0	7	—	—	4.17	—	33	
	Kettins	9 9	9 218	60.8	45.5	53.2	—	71	7th	34	12th	—	—	1.30	33	—	15	13th	11	6	0	0	0	0	0	4	—	—	—	—		
	Lednathie	9 9	9 720	60.8	—	—	—	72	7th	—	—	—	—	1.91	49	—	21	13th	10	6	0	0	0	0	4	—	—	—	—	—		
	Montrose	17—9	9 16	61.7	48.1	54.9	—	73	7th	37	13th	—	—	1.17	30	—	12	13th	7	4	0	0	0	0	3	—	—	5.27	—	41		
Perth.	Crieff ...	21 21	9 478	60.9	46.8	53.9	+0.3	71	7th	38	13th	—	—	1.82	46	—27	21	13th	10	7	0	0	0	0	1	—	—	—	—	—		
	Perth ...	8 8	8 76	62.2	48.1	55.2	+1.9	73	7th	39	13th	—	—	1.47	37	—20	16	13th	6	6	0	0	0	0	1	—	—	4.67	—	37		
Fife.	Cupar...	9 9	9 210	62.2	48.2	55.2	—	73	7th	38	13, 16	—	—	1.07	27	—	17	13th	9	5	0	0	0	0	2	—	—	—	—	—		
	Kirkcaldy	9 9	9 66	62.2	49.6	55.9	—	74	7th	42	13th	—	—	1.23	31	—	21	13th	9	3	0	0	0	1	3	—	—	—	—	—		
	St. Andrews	17—9	9 20	61.6	47.5	54.6	—	74	7th	36	12th	54.8	54.5	1.01	26	—	16	13th	8	4	0	0	0	0	1	0	—	—	5.30	—	42	
Linlithgow.	Bangour	21 21	9 587	60.0	45.9	53.0	—	72	7th	35	16th	—	—	2.09	53	—	21	13th	8	7	0	0	0	1	1	—	—	—	—	—		
Edinburgh.	Blackford Hill	21 21	9 441	60.8	48.7	54.8	+1.5	73	7, 8	43	13, 16	—	—	1.61	41	—6	7	13th	10	5	0	0	0	0	2	0	4.97	+0.97	39			
	Liberton	9 9	9 190	62.1	—	—	—	75	8th	—	—	—	—	1.92	49	—	23	13th	8	5	0	0	0	0	1	—	—	—	—	—		
	Edin Univ.	9 9	9 227	62.0	49.8	55.9	—	75	7th	44	13th	54.6	55.6	1.55	39	—11	22	13th	9	4	0	0	0	0	1	—	—	—	—	—		
	Inchkeith	18—7	7 196	59.4	50.5	55.0	—	70	7th	45	13th	—	—	1.36	35	—	19	13th	8	4	0	0	0	1	2	—	—	—	—	—		
Haddington.	Smeaton	9 9	9 100	63.4	46.1	54.8	—	77	7th	39	12, 16	55.3	—	1.26	32	—	17	13th	7	5	0	0	0	1	1	—	—	—	—	—		
Berwick.	Marchmont	8 8	8 498	—	45.5	—	—	—	—	38	25th	—	—	1.39	35	—26	28	13th	5	4	0	0	0	1	0	—	—	4.90	+0.87	38		
Peebles.	Glen ...	9 9	9 754	62.5	45.4	54.0	—	73	8th	34	17th	—	—	1.51	38	—	20	13th	11													

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.							
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow lying.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
								Max.	Min.	Max.	Min.															Max.	Min.	Date.	Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.									hr.	hr.	%						
2. ENGLAND, N.E.																																		
Northumberland.	Alnwick	9	9	9	181	63.7	47.2	55.5	+1.9	77	7th	39	24th	—	—	1.40	36	—21	23	13th	9	5	0	0	0	0	—	—						
	Bellingham	9	9	9	848	60.9	43.2	52.1	—	75	7, 8	35	25th	—	—	1.89	48	—	33	13th	10	3	0	0	0	0	—	—						
	Cockle Park	21	21	9	324	62.0	47.0	54.5	+2.1	75	7, 8	39	25th	53.6	54.2	1.55	39	—16	26	13th	9	5	0	0	0	0	5.46	+1.09						
	Tynemouth	18—7	7	7	118	62.7	50.7	56.7	+2.4	77	7th	44	25th	—	—	0.88	22	—24	16	13th	8	4	0	0	0	0	5.21	—41						
Durham.	Chopwellwood	9	9	9	445	63.3	43.4	53.4	—	76	7, 8	32	25th	—	—	0.94	24	—	16	13th	9	3	0	0	0	0	5.21	—41						
	Durham	21	21	9	336	63.9	46.7	55.3	+1.3	75	7, 8	36	25th	—	—	0.66	17	—27	10	13th	6	4	0	0	0	0	4.95	+0.95						
	Ushaw College	9	9	9	594	63.5	47.0	55.3	—	76	7, 8	40	25th	—	—	0.63	16	—	11	13th	4	3	0	0	0	0	—	—						
York, N. Riding.	Ampleforth	9	9	9	348	64.1	49.1	56.6	+2.1	74	8, 9	41	25th	—	—	0.98	25	—21	11	13th	7	3	0	0	0	0	—	—						
	Bridlington	21	21	9	57	64.0	47.9	56.0	—	77	9th	37	25th	—	—	0.65	17	—	7	13th	5	4	0	0	0	0	5.77	—45						
	Rounton	20	20	8	249	64.1	47.5	55.8	+2.2	75	7, 8	37	25th	56.5	—	0.90	23	—22	10	13th	6	6	0	0	0	0	—	—						
	Scarborough*	17—9	9	9	118	65.4	52.9	59.2	+3.4	76	7, 9	47	25th	—	59.0	1.16	29	—	15	1st	6	5	0	0	0	0	5.62	+1.05						
	West Witton	9	9	9	605	63.5	47.8	55.7	—	77	8th	37	25th	54.7	54.5	1.43	36	—	19	13th	8	5	0	0	0	0	—	—						
	Whitby	21	21	9	124	65.3	49.3	57.3	+1.5	79	8th	41	12, 25	—	—	0.74	19	—24	6	13th	8	6	0	0	0	0	5.42	+0.72						
	York	21	21	9	56	66.4	49.7	58.1	+2.5	79	8th	39	25th	58.2	57.9	0.71	18	—23	7	13th	8	5	0	0	0	0	5.43	+1.26						
York, E. Riding.	Howden	18—7	7	7	21	66.0	47.1	56.6	—	79	8th	33	25th	57.2	56.9	0.60	15	—	8	13th	6	3	0	0	0	1	10	5.20	—41					
	Hull	21	21	9	8	67.1	49.8	58.5	+3.1	80	7, 8, 9	41	25th	57.4	57.4	0.61	15	—29	8	13th	5	4	0	0	0	0	0	5.04	—40					
	Spurn Head	18—7	7	7	26	64.9	53.7	59.3	+2.7	79	9th	49	28th	—	—	0.39	10	—26	6	13th	7	3	0	0	0	1	2	—	—					
Lincoln.	Cranwell	18—7	7	7	237	66.3	48.4	57.4	—	79	9th	38	25th	58.5	58.2	1.17	30	—	15	11th	7	4	0	0	0	1	5	5.59	—44					
	Fulbeck	9	9	9	180	67.7	48.5	58.1	+1.8	80	9th	38	25th	—	—	1.00	26	—16	13	11th	7	3	—	—	—	—	5.18	+0.25						
	Lincoln	9	9	9	58	67.7	50.1	58.9	+1.6	80	8, 9	41	25th	58.0	58.9	0.67	17	—22	5	9th	7	4	0	0	0	2	0	—	—					
	Skegness	17—9	9	9	12	65.3	51.3	58.3	+2.3	76	9th	41	16th	—	—	0.81	21	—18	12	11th	5	3	0	0	0	1	0	5.95	+0.72					
3. ENGLAND, E.																																		
Norfolk.	Cromer	9	9	9	196	66.4	52.0	59.2	+1.9	84	9th	46	16th	—	—	0.67	17	—25	6	11th	11	3	0	0	0	0	—	5.65	+0.58					
	Geldeston	9	9	9	37	68.5	47.2	57.9	+1.1	84	9th	36	29th	—	—	1.41	36	—13	26	11th	5	3	0	0	0	1	7	5.49	+0.29					
	L. Massingh'm	9	9	9	277	67.1	50.8	59.0	+3.5	83	8th	43	16th	—	—	1.10	28	—28	14	12th	11	4	0	0	0	0	1	5.91	+1.11					
	Norwich	9	9	9	93	68.4	49.7	59.1	+2.4	84	9th	39	28, 29	59.2	—	1.31	33	—21	17	11th	8	3	0	0	0	0	1	5.53	—44					
	Pulham	18—7	7	7	125	67.9	48.2	58.1	—	84	9th	37	29th	—	—	1.29	33	—	23	11th	4	3	0	0	0	1	0	5.64	—44					
	Yarmouth	18—7	7	7	13	65.7	52.4	59.1	+2.1	77	23rd	41	25th	61.4	60.5	1.47	37	—13	26	11th	6	3	0	0	0	2	10	5.78	—46					
Suffolk.	Bungay (Flixton)	8	8	8	79	69.2	48.9	59.1	—	83	9th	38	29th	—	—	1.36	35	—	24	11th	5	4	0	0	0	0	3	—	—					
	Felixstowe Aero Beach	18—7	7	7	15	66.9	52.7	59.8	—	75	1, 9	45	4, 25	—	—	2.12	54	—	46	11th	5	3	0	0	0	2	4	5.96	—47					
	Copdock	9	9	9	164	69.2	49.5	59.4	—	84	9th	38	29th	58.9	59.0	2.04	52	—	40	11th	5	3	0	0	0	1	5	5.44	—43					
	Lowestoft	17—9	9	9	83	66.4	53.1	59.8	+2.6	78	23rd	44	16th	60.4	60.0	1.43	36	—14	26	11th	4	2	0	0	0	2	0	5.88	+0.15					
Cambridge.	Cambridge	20	20	8	41	70.1	47.6	58.9	+2.0	85	9th	34	28th	60.7	64.1	1.32	34	—7	22	11th	7	4	0	0	0	0	7	5.77	+0.74					
	Luton	8	8	8	390	68.5	46.1	57.3	—	83	9th	32	29th	59.6	60.7	1.49	38	—	26	11th	7	3	0	0	0	0	3	5.96	—45					
	Woburn	9	9	9	291	68.8	47.1	58.0	+2.7	82	8, 9	33	28th	58.8	57.1	1.58	40	—9	26	11th	11	5	0	0	0	0	1	5.80	—46					
Hertford.	Bennington	21	21	9	406	68.7	49.8	59.3	+2.8	84	9th	42	16th	59.6	60.6	1.74	44	—2	29	11th	8	4	0	0	0	1	4	6.15	—49					
	Berkhamsted	9	9	9	450	69.5	48.9	59.2	+2.7	84	9th	39	16, 29	—	—	2.34	59	+9	39	11th	8	5	0	0	0	1	2	4	—	—				
	Hemel Hempstead	21	21	9	535	68.6	48.8	58.7	—	83	9th	40	16th	—	—	2.25	57	—	39	11th	7	5	—	—	—	—	5	6.17	—49					
	Hitchin	8	8	8	297	68.9	49.0	59.0	—	83	9th	36	28th	59.6	60.1	1.35	34	—	24	11th	10	3	0	0	0	0	3	6.29	—50					
Essex.	Rothamsted	9	9	9	420	67.6	48.4	58.0	+2.3	82	9th	39	28th	58.4	—	2.61	66	+17	51	11th	7	4	0	0	0	1	1	5.80	+0.77					
	Clacton-on-S.	18—7	7	7	54	66.3	53.8	60.1	+2.6	73	9th	45	16th	61.0	61.0	1.35	34	—8	26	11th	6	4	0	0	0	0	0	6.04	+0.17					
	Chelmsford	9	9	9	134	68.8	47.6	58.2	—	79	8th	34	28th	—	—	0.62	16	—	6	11th	5	3	—	—	—	—	—	—	—					
	Halstead	9	9	9	139	70.6	48.3	59.5	—	84	9th	38	4, 25	—	—	1.86	47	—	39	11th	4	3	0	0	0	1	0	—	—					
Essex.	Ridgewell	9	9	9	269	69.2	48.9	59.1																										

TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.	Deviation from Normal.	Most in a day.				Precipitation. 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
					A	B		Maximum.	Date.	Minimum.			Date.	Amount.											Date.	Daily Mean.	Deviation from Normal.	Per Cent.					
																													Max.	Min.	Max.	Min.	Mean of A and B.
Max.	Min.	Rain.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.				
4. MIDLAND COUNTIES—cont.																																	
Stafford.	Cheadle	9	9	9	64.6	65.2	48.5	56.9	—	76	7.8	9	42	16th	—	—	1.16	29	—	32	14	12th	7	5	—	—	—	—	—	—	—	—	
	Mayfield	9	9	9	37.4	65.7	45.9	55.8	—	78	8th	34	25th	—	—	1.19	30	—	—	14	12th	7	5	—	—	—	—	—	—	—	—		
Shropshire.	Roden, Well'n	8	8	8	207	67.4	44.5	56.0	—	78	8th	30	29th	—	—	0.78	20	—	—	9	12th	7	5	—	—	—	—	—	—	—	—		
	Wistanstow	21	21	9	48.1	64.9	44.8	54.9	+0.1	78	7.8	32	25th	—	—	0.74	19	—	—	7	12th	8	5	—	—	—	—	—	—	—	—		
Worcester.	Malvern	17	—	9	377	68.0	50.9	59.5	—	80	8th	43	28th	59.7	60.4	1.11	28	—	—	19	11th	5	2	—	—	—	—	—	—	—	—		
	Sparkhill	7	13	7	424	68.4	47.5	58.0	—	82	8th	35	28th	—	—	0.93	24	—	—	9	11th	5	5	—	—	—	—	—	—	—	—		
	Tenbury	21	21	9	313	67.6	44.5	56.1	+1.2	79	8th	33	28th	58.2	—	0.81	21	—	—	8	11th	8	5	—	—	—	—	—	—	—	—		
Hereford.	Bromyard	9	9	9	392	66.8	45.8	56.3	—	79	8th	34	28, 29	58.3	58.7	1.26	32	—	—	19	11th	6	5	—	—	—	—	—	—	—	—		
	Hereford	9	9	9	291	66.9	46.5	56.7	+1.1	80	8th	34	29th	—	—	1.21	31	—	—	16	11th	6	6	—	—	—	—	—	—	—	—		
	Ross	18	—	7	223	67.6	47.7	57.7	+1.2	82	8th	37	28, 30	59.4	60.4	1.61	41	—	—	26	11th	7	3	—	—	—	—	—	—	—	—		
Gloucester.	Cheltenham	9	9	9	214	68.2	49.6	58.9	+2.9	80	9th	39	29th	—	—	1.55	39	—	—	27	11th	6	5	—	—	—	—	—	—	—	—		
	Overcourt	9	9	9	147	68.7	48.6	58.7	—	83	8th	41	16, 28	—	—	3.31	84	—	—	30	11th	8	8	—	—	—	—	—	—	—	—		
	Clifton	9	9	9	225	68.9	49.3	59.1	+1.2	81	8th	42	29, 30	—	—	4.44	113	+53	—	39	11th	8	7	—	—	—	—	—	—	—	—		
5. ENGLAND, S.E.																																	
London.	g Camden Square	9	9	9	110	71.6	51.5	61.6	+3.0	86	9th	41	29th	60.5	60.4	2.50	63	+17	—	50	11th	6	3	—	—	—	—	—	—	—	—		
	East Ham	9	9	9	15	70.5	49.9	60.2	—	85	9th	36	29th	—	—	1.68	43	—	—	35	11th	3	2	—	—	—	—	—	—	—	—		
	Enfield	9	9	9	148	70.1	49.4	59.8	—	85	9th	36	29th	—	—	59.5	2.91	74	—	57	11th	8	5	—	—	—	—	—	—	—	—		
	g Greenwich	9	9	9	149	71.5	49.3	60.4	+2.4	88	9th	37	28th	59.1	58.6	1.82	46	+1	—	33	11th	5	3	—	—	—	—	—	—	—	—		
	Hampst'd Res.	20	20	9	450	68.5	52.2	60.4	—	83	9th	43	16th	—	—	2.61	66	—	—	52	11th	8	3	—	—	—	—	—	—	—	—		
	Richmond (Kew Obs.)	24	24	24	18	69.3	50.2	59.8	+2.7	82	8th	39	29th	60.1	59.7	1.76	45	—	—	20	11th	4	3	—	—	—	—	—	—	—	—		
	Kensington Pal.	9	9	9	80	70.6	51.3	61.0	—	85	9th	42	16, 29	60.7	60.7	2.14	54	—	—	41	11th	5	3	—	—	—	—	—	—	—	—		
	Tottenham	21	21	9	51	70.1	51.8	61.0	—	83	9th	41	29th	—	—	64.6	2.59	66	—	53	11th	6	4	—	—	—	—	—	—	—	—		
	Westminster	9	9	9	27	70.7	52.7	61.7	+3.5	85	9th	43	29th	—	—	1.96	50	+8	—	37	11th	5	3	—	—	—	—	—	—	—	—		
	Kent.	Belvedere	9	9	9	14	69.7	49.8	59.8	—	85	9th	39	28, 29, 30	58.8	58.0	1.48	38	—	—	27	11th	6	3	—	—	—	—	—	—	—	—	
Bexley Heath		21	21	7	161	70.1	49.0	59.6	—	86	9th	37	29th	60.6	60.0	1.57	40	—	—	28	11th	7	3	—	—	—	—	—	—	—	—		
Biggin Hill		18	—	7	600	67.3	51.8	59.6	—	81	9th	42	16th	—	—	1.29	33	—	—	23	11th	5	4	—	—	—	—	—	—	—	—		
Canterbury		9	9	9	40	69.8	50.5	60.2	—	82	8, 9	38	28, 29	62.0	61.5	0.58	15	—	—	9	11th	5	2	—	—	—	—	—	—	—	—		
Deal		17	—	9	1	68.1	52.5	60.3	—	81	9th	41	29th	60.6	60.3	0.86	22	—	—	17	11th	3	3	—	—	—	—	—	—	—	—		
Dungeness		18	—	7	21	67.2	54.2	60.7	+2.5	75	6th	43	16, 26	—	—	0.33	8	—	—	5	11th	7	3	—	—	—	—	—	—	—	—		
Folkestone		17	—	9	101	67.3	53.5	60.4	—	77	8th	46	16, 26	—	—	62.4	0.60	15	—	12	11th	4	3	—	—	—	—	—	—	—	—		
Isle of Grain		18	—	7	10	68.2	49.9	59.1	—	84	9th	36	28, 29	—	—	0.65	17	—	—	10	11th	5	4	—	—	—	—	—	—	—	—		
Lympe		18	—	7	350	66.8	52.2	59.5	—	77	8th	41	16th	—	—	58.9	0.62	16	—	13	11th	5	2	—	—	—	—	—	—	—	—		
Margate		17	—	9	51	66.7	56.1	61.4	+2.6	82	9th	50	26, 29	63.5	64.1	0.59	15	—	—	7	11th	6	5	—	—	—	—	—	—	—	—		
Ramsgate		9	9	9	168	67.5	54.0	60.8	—	85	14th	44	16th	—	—	0.63	16	—	—	8	11th	6	4	—	—	—	—	—	—	—	—		
Sevenoaks		9	9	9	509	69.8	50.6	60.2	—	83	8, 9	40	29th	59.3	58.1	1.20	31	—	—	18	11th	5	3	—	—	—	—	—	—	—	—	—	
Tunbridge W.		17	—	9	354	70.0	49.4	59.7	+2.9	83	9th	36	29th	60.3	60.2	0.79	20	—	—	14	11th	7	3	—	—	—	—	—	—	—	—		
Surrey.		Addington	9	9	9	472	68.3	50.2	59.3	—	83	9th	41	16th	—	—	1.36	35	—	—	22	11th	7	4	—	—	—	—	—	—	—	—	
		Croydon	18	—	7	245	69.4	50.8	60.1	—	84	9th	39	28th	—	—	1.24	31	—	—	22	24th	6	4	—	—	—	—	—	—	—	—	
	Wallington	9	9	9	140	69.9	49.7	59.8	—	84	8, 9	37	29th	61.4	62.7	1.44	37	—	—	27	11th	6	3	—	—	—	—	—	—	—	—		
	Wisley	9	9	9	150	70.5	48.3	59.4	+3.0	85	9th	34	29th	60.0	59.6	1.25	32	—	—	24	11th	6	4	—	—	—	—	—	—	—	—		
	Woking	9	9	9	179	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Sussex.	Ardingly	9	9	9	439	69.7	48.5	59.1	—	83	9th	38	16th	—	—	0.93	24	—	—	17	11th	6	3	—	—	—	—	—	—	—	—		
	Bognor	9	9	9	20	67.2	53.6	60.4	+2.5	74	7th	45	16th	—	—	58.9	0.49	12	—	9	11th	5	2	—	—	—	—	—	—	—	—		
	Brighton	17	—	9	31	67.4	53.7	60.6	+1.7	73	7, 8	45	16th	—	—	63.0	0.56	14	—	11	11th	6	2	—	—	—	—	—	—	—	—		
	Eastbourne	17	—	9	35	67.1	53.1	60.1	+1.7	74	9th	45	29th	62.1																			

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.			
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
								Max.	Min.	Maximum.	Date.														Minimum.	Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.	
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.				
7. ENGLAND, N.W.																																
Cumberland.	Aspatria (Mealsgate)	21 21	9 487	60.9	47.2	54.1	—0.2	72	7th	40	17, 18	54.8	—	1.86	47	—36	30	14th	6	6	0	0	0	0	0	0	4.94	+0.31	39			
	Egremont	20 20	8 349	62.1	47.7	54.9	—	72	7th	36	17th	56.9	55.9	2.32	59	—	32	13th	8	8	0	0	0	0	3	1	0	0	4.73	—	37	
	Keswick	9 9	9 254	63.4	47.7	55.6	—	75	7, 8	37	25th	56.7	56.5	2.41	61	—	33	13th	8	8	0	0	0	0	1	0	0	0	5.00	—	39	
	Newton Rigg	21 21	9 559	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Scaleby	9 9	9 111	64.1	46.0	55.1	+0.8	78	7, 8	34	25th	—	—	1.75	44	—25	30	13th	9	6	0	0	0	0	1	4	—	0	—	—	—	
Lancashire.	Blackpool	17—9	9 66	63.9	50.1	57.0	+1.4	75	7th	40	29th	57.7	56.8	1.47	37	—35	16	13th	8	7	0	0	0	0	0	0	0	5.71	+0.84	45		
	Blundellsands	9 9	9 34	64.3	50.7	57.5	—	76	7th	41	25th	57.4	57.0	1.73	44	—	18	11th	8	7	0	0	0	0	2	0	0	—	—	—		
	Bolton	9 9	9 341	65.3	49.2	57.3	—	79	8th	40	17th	57.7	57.0	1.35	34	—	8	12th	11	8	0	0	0	0	0	0	0	4.56	—	36		
	Burnley	9 9	9 458	63.2	47.4	55.3	—	76	7th	38	25th	56.3	56.3	1.81	46	—	14	13th	11	9	0	0	0	0	0	0	0	4.74	—	37		
	Darwen	21 21	9 722	63.6	48.8	56.2	—	75	7th	43	17, 25	57.4	56.0	2.34	59	—	16	12th	9	8	0	0	0	0	0	0	0	5.33	—	42		
	Hutton	9 9	9 82	64.5	48.0	56.3	—	77	7th	37	25th	57.0	57.1	2.11	54	—	18	1st	9	7	0	0	0	0	1	5	0	0	5.48	—	43	
	Lancaster	9 9	9 311	63.9	50.4	57.2	—	77	7th	42	17th	58.2	59.3	2.31	59	—	32	13th	9	5	0	0	0	0	1	0	0	0	5.04	—	40	
	Leyland	9 9	9 124	64.6	48.4	56.5	—	77	7th	37	25th	—	—	1.97	50	—	13	12th	9	8	0	0	0	0	4	0	0	0	5.62	—	44	
	Morecambe	17—9	9 24	63.8	50.8	57.3	—	76	7th	41	25th	—	—	1.87	48	—	27	13th	8	6	—	—	—	—	—	—	—	—	—	—	—	
	Southport	17—9	9 37	63.6	50.3	57.0	+1.5	78	7th	40	25th	58.0	59.3	1.84	47	—23	11	13th	9	6	0	0	0	0	4	0	0	0	5.79	+1.09	46	
	Stonyhurst	9 9	9 375	62.7	49.4	56.1	+1.8	74	7th	41	25th	—	—	2.88	73	—24	25	1st	8	7	0	0	0	0	1	2	0	0	5.45	+1.22	43	
Liverpool.	Bidston	21 21	9 188	63.6	51.4	57.5	+1.4	76	7th	47	17, 25, 29	—	—	1.43	36	—25	15	11th	8	7	0	0	0	0	1	5	0	0	5.63	—	44	
	Whitworth Pk.	21 21	9 125	66.7	50.7	58.7	+2.3	81	7, 8, 9	42	25th	—	—	0.78	20	—40	6	12th	6	5	0	0	0	0	0	0	0	0	4.86	+1.29	38	
	Oldham Road	21 21	9 190	65.7	52.1	58.9	+1.7	78	8, 9	45	25th	58.7	60.4	0.76	19	—48	5	12th	6	6	0	0	0	0	0	0	0	0	4.48	+0.85	35	
	Alex. Park	18—7	7 99	66.0	48.5	57.3	—	78	8th	35	25th	—	—	0.93	24	—	7	12th	6	6	0	0	0	0	0	0	0	0	—	—	—	
Cheshire.	Hawarden B'ge	9 9	9 22	66.7	49.6	58.2	+1.8	80	7th	39	29th	—	—	0.74	19	—28	9	12th	8	4	—	—	—	—	—	—	—	—	—	—	—	
	Hoylake	9 9	9 30	64.6	50.0	57.3	+0.6	72	9, 22	40	25th	—	—	1.13	29	—33	11	11th	9	7	—	—	—	—	—	—	—	—	6.18	+1.65	49	
	Macclesfield	8 8	8 500	65.7	48.3	57.0	+2.4	78	8th	41	26th	—	—	0.95	24	—40	6	12th	9	6	—	—	—	—	—	—	—	—	—	—	—	
7a and 8b WALES.																																
Flint.	Rhyl	17—9	9 30	64.5	49.0	56.8	+0.9	76	7th	39	25th	—	—	1.07	27	—26	9	11th	9	7	0	0	0	0	0	0	0	5.72	+0.75	45		
	Holyhead	18—7	7 15	63.2	52.5	57.9	+1.5	71	7th	47	21, 25	—	—	2.14	54	—14	24	11th	9	6	0	0	0	0	0	0	0	5.45	—	43		
Anglesey.	Colwyn Bay	17—9	9 81	64.3	50.7	57.5	—	77	7th	42	25th	—	—	1.19	30	—	11	11th	7	7	—	—	—	—	—	—	—	—	5.86	—	46	
	Llandudno	17—9	9 22	63.9	50.1	57.0	—	77	7th	43	25th	—	—	1.90	48	—10	23	11th	8	8	0	0	0	0	0	0	0	5.87	+0.94	46		
Merioneth.	Aberdovey	9 9	9 60	65.7	53.4	59.6	+1.5	76	8th	47	17th	—	—	1.93	49	—	19	11th	9	6	0	0	0	0	0	0	0	6.49	+1.29	51		
	Welshpool	8 8	8 262	69.9	44.4	57.2	—	79	9, 11	35	28th	—	—	0.97	25	—	12	12th	6	4	0	0	0	0	0	0	0	—	—	—	—	
Cardigan.	Aberystwyth	17—8	8 16	64.3	52.3	58.3	—	75	7th	43	26th	—	—	1.68	43	—	19	11th	9	7	0	0	0	0	0	0	0	6.40	+1.33	50		
	Haverfordwest	21 21	9 250	64.3	49.6	57.0	—	74	6th	42	14, 29	—	—	1.88	48	—42	27	12th	7	4	0	0	0	0	8	0	0	5.76	+0.69	46		
	St. Ann's Hd.	18—7	7 149	63.1	53.9	58.5	+1.7	69	8th	48	17th	—	—	1.60	41	—28	18	11th	7	6	0	0	0	0	6	1	0	5.74	+0.74	46		
	Tenby	9 9	9 64	65.9	51.1	58.5	—	75	8th	39	16th	—	—	1.51	38	—	16	12th	7	6	0	0	0	0	0	0	0	5.89	+0.69	47		
Brecknock.	Gwernyd Pk.	8 8	8 374	66.4	44.0	55.2	+0.8	78	8th	33	16th	—	—	1.44	37	—15	16	12th	8	6	0	0	0	0	5	—	—	—	—	—	—	
	Rhayader	9 9	9 757	64.0	44.6	54.3	—	75	7, 8	34	4, 25, 26	—	—	1.41	36	—	9	12th	7	7	0	0	0	0	3	9	0	5.61	—	44		
Glamorgan.	Cardiff	21 21	9 202	66.8	50.0	58.4	+2.3	81	8th	42	29th	59.7	59.5	3.40	86	+8	31	11th	8	8	0	0	0	0	1	0	0	5.63	—	45		
	Swansea	9 9	9 25	67.3	52.1	59.7	—	79	8th	44	16th	61.2	60.6	2.94	75	—	33	11th	13	6	0	0	0	0	0	0	0	5.44	—	43		
Monmouth.	Newport	8 8	8 32	68.1	49.2	58.7	—	82	8th	40	29th	58.9	59.4	2.87	73	—	33	11th	8	7	0	0	0	0	0	1	—	—	—	—	—	
8b. ENGLAND, S.W.																																
Somerset.	Bath	17—9	9 66	69.0	49.1	59.1	+2.4	82	8, 9	35	29th	61.1	61.3	1.94	49	—3	31	11th	7	5	0	0	0	0	1	0	0	5.58	+0.51	44		
	Long Ashton	9 9	9 162	68.0	49.2	58.6	—	82	8th	38	29th	59.8	—	4.89	124	—	44	10th	8	7	0	0	0	0	0	1	0	6.24	—	50		
Dorset.	Weston s. Mare	17—9	9 29	68.3	51.8	60.1	+2.1	82	9th	42	29th	—	—	2.79	71	+15	43	11th	9	8	0	0	0	0	1	0	0	5.50	—	44		
	Dorchester	8 8	8 314	67.8	49.8	58.8	—	78	8th	39	16, 29	—	—	1.02	26	—	17	11th	7	4	0	0	0	0	2	0	0	—	—	—	—	
	Holton Heath	9 17	9 64	67.8	49.5	58.7	—	79	9th	35	29th	62.3	62.8	0.75	19	—	15	11th	5	3	0	0	0	0	0	2	0	5.84	—	46		
	Portland Bill	18—7	7																													

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL AND SUNSHINE, AND OF WEATHER OBSERVATIONS, SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.						
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.						
								Amount.	Date.	Daily Mean.	Deviation from Normal.					Per Cent.																	
					Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Maximum.	Date.			Minimum.	Date.	1 ft.	4 ft.															
9. IRELAND, N.																																	
Sligo.	Markree Castle	21	21	9	122	62.8	47.5	55.2	+1.4	73	22nd	35	25th	58.0	56.9	1.42	36	—50	9	9th	12	9	0	0	0	0	3	0	0	3.57	—0.13	28	
		18	—	7	10	59.7	50.9	55.3	—0.3	63	4, 5	42	16th	—	—	1.67	43	—56	6	9th	17	11	0	0	0	0	0	0	0	—	—	—	
Mayo.	Blacksod Pt.	9	9	9	120	61.4	49.5	55.5	—	66	7th	42	16, 25	—	—	2.74	70	—	13	22nd	12	11	0	0	2	0	0	0	0	3.78	—	30	
		21	21	9	50	60.6	49.9	55.3	—	58	6, 7	42	25th	—	—	1.91	49	—	13	22nd	16	10	0	0	0	0	0	0	—	—	—		
Donegal.	Dunfanaghy	18	—	7	208	59.5	50.9	55.2	+0.4	67	4th	45	17th	—	—	1.83	47	—20	9	19th	18	11	0	0	0	0	3	—	0	4.07	—	32	
		9	9	9	206	63.3	46.3	54.8	—	73	6, 7	35	24th	—	—	1.33	34	—	28	14th	4	4	0	0	0	0	1	—	0	—	—	—	
Antrim.	Lisburn	18	—	7	35	62.1	51.3	56.7	+1.8	72	22nd	43	15th	—	—	1.82	46	—15	16	1st	9	6	0	0	0	0	5	—	0	—	—	—	
		21	21	9	204	62.5	48.6	55.6	+1.5	72	6th	39	16, 25	57.0	56.4	1.24	31	—32	12	13th	11	8	0	0	0	0	4	0	0	4.56	+0.59	36	
Down.	Donaghadee	17	—	9	161	62.5	47.2	54.9	—	71	6th	33	16th	56.5	56.5	1.40	36	—	15	13th	12	6	0	0	0	0	1	—	0	—	—	—	
		21	21	9	155	64.7	47.0	55.9	+1.9	75	6, 7	33	25th	—	—	1.46	37	—12	13	12th	9	6	0	0	0	0	0	0	0	5.65	+1.02	44	
Armagh.	Armagh	21	21	9	12	64.1	49.6	56.9	+0.9	76	7th	41	16, 25	58.5	57.6	1.30	33	—14	15	12th	6	6	0	0	0	0	2	0	0	—	—	—	
		21	21	9	61	64.8	49.3	57.1	—	76	6, 7	40	25th	—	—	1.40	36	—	17	12th	7	5	0	0	0	0	1	0	0	—	—	—	
Longford.	Newtownforbes	21	21	9	256	63.4	49.6	56.5	—	74	22nd	42	16th	—	—	1.15	29	—	12	12th	5	4	0	0	0	0	0	0	—	—	—	—	
		9	9	9	246	—	—	—	—	—	—	—	—	—	—	—	1.34	34	—	9	13th	8	6	0	0	0	0	0	0	—	—	—	
10. IRELAND, S.																																	
Dublin.	Baldonnell	18	—	7	28	63.9	47.5	55.7	—	73	6, 7, 22	35	25th	—	—	1.59	40	—	12	12th	8	7	0	0	0	0	3	0	0	5.38	—	42	
		21	21	9	54	63.3	51.6	57.5	+1.4	72	6, 7, 22	43	25th	—	—	1.33	34	—15	16	12th	7	6	0	0	0	0	5	0	0	—	—	—	
City	21	21	9	55	65.2	48.5	56.9	+2.1	77	7th	37	25th	—	—	1.38	35	—16	12	12th	8	6	0	0	0	0	1	0	0	—	—	—		
	21	21	9	155	64.7	47.0	55.9	+1.9	75	6, 7	33	25th	—	—	1.46	37	—12	13	12th	9	6	0	0	0	0	0	0	0	5.65	+1.02	44		
Trin. Coll.	Trin. Coll.	21	21	9	12	64.1	49.6	56.9	+0.9	76	7th	41	16, 25	58.5	57.6	1.30	33	—14	15	12th	6	6	0	0	0	0	2	0	0	—	—	—	
		21	21	9	61	64.8	49.3	57.1	—	76	6, 7	40	25th	—	—	1.40	36	—	17	12th	7	5	0	0	0	0	1	0	0	—	—	—	
Ranelagh	Ranelagh	21	21	9	256	63.4	49.6	56.5	—	74	22nd	42	16th	—	—	1.15	29	—	12	12th	5	4	0	0	0	0	0	0	—	—	—	—	
		9	9	9	246	—	—	—	—	—	—	—	—	—	—	—	1.34	34	—	9	13th	8	6	0	0	0	0	0	0	—	—	—	
Wicklow.	Newcastle	18	—	7	175	63.4	48.9	56.2	+1.6	73	6th	37	16th	58.4	57.9	2.20	56	—2	19	11th	11	7	0	0	0	0	7	0	0	4.53	+0.33	36	
		9	9	9	252	68.0	40.9	54.5	—	74	7, 8, 13, 16	30	16th	—	—	1.62	41	—	10	12th	8	6	0	0	0	0	0	0	—	—	—	—	
King's Co.	Birr Castle	21	21	9	542	63.5	49.4	56.5	—	73	22nd	42	16, 25	—	—	1.04	26	—	9	12th	8	4	0	0	0	0	4	1	0	5.13	—	40	
		21	21	9	542	63.5	49.4	56.5	—	73	22nd	42	16, 25	—	—	1.04	26	—	9	12th	8	4	0	0	0	0	4	1	0	5.13	—	40	
Queen's Co.	Mountmellick	9	9	9	252	68.0	40.9	54.5	—	74	7, 8, 13, 16	30	16th	—	—	1.62	41	—	10	12th	8	6	0	0	0	0	0	0	—	—	—	—	
		9	9	9	252	68.0	40.9	54.5	—	74	7, 8, 13, 16	30	16th	—	—	1.62	41	—	10	12th	8	6	0	0	0	0	0	0	—	—	—	—	
Kilkenny.	Kilkenny	9	9	9	195	64.7	47.5	56.1	+1.0	73	7th	36	16th	—	—	1.31	33	—26	13	9th	8	6	0	0	0	0	1	—	1	—	—	—	
		9	9	9	195	64.7	47.5	56.1	+1.0	73	7th	36	16th	—	—	1.31	33	—26	13	9th	8	6	0	0	0	0	1	—	1	—	—	—	
Waterford.	Waterford	9	9	9	137	64.5	50.5	57.5	+1.8	71	7th	42	16th	—	—	1.22	31	+38	14	9th	6	5	—	—	—	—	—	—	—	—	—	—	
		21	21	9	16	64.9	49.3	57.1	—	72	6th	40	15, 16, 17	—	—	1.24	31	—	14	9th	8	5	—	—	—	—	—	—	—	—	—	—	
Seskin, Carrick-on-Suir.	Seskin, Carrick-on-Suir.	21	21	9	542	63.5	49.4	56.5	—	73	22nd	42	16, 25	—	—	1.04	26	—	9	12th	8	4	0	0	0	0	4	1	0	5.13	—	40	
		21	21	9	542	63.5	49.4	56.5	—	73	22nd	42	16, 25	—	—	1.04	26	—	9	12th	8	4	0	0	0	0	4	1	0	5.13	—	40	
Limerick.	Foynes	9	9	9	50	63.3	49.7	56.5	+0.7	72	6th	43	16, 25	—	—	1.75	44	—27	14	13th	12	7	—	—	—	—	—	—	—	—	—	—	
		9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Mungret	Mungret	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
College	College	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
		9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	9	9	9	174	66.3	51.3	58.8	+2.4	75	5th	40	16th	—	—	1.88	48	—43	13	11th	13	7	—	—	—	—	—	—	—	—	—	—	
		24	24	24	30	61.9	52.5	57.2	+0.6	67	22nd	42	16th	—	—	1.45	37	—68	9	12th	13	7	0	0	0	1	0	0	0	4.48	+0.05	36	
Cahiriveen (Val. Obs.)	Cahiriveen (Val. Obs.)	24	24	24	30	61.9	52.5	57.2	+0.6	67	22nd	42	16th	—	—	1.45	37	—68	9	12th	13	7	0	0	0	1	0	0	0	4.48	+0.05	36	
		24	24	24	30	61.9	52.5	57.2	+0.6	67	22nd	42	16th	—	—	1.45	37	—68	9	12th	13	7	0	0	0	1	0	0	0	4.48	+0.05	36	
Cork.	Ballinacurra	9	9	9	24	63.8	49.8	56.8	+0.3	70	6, 7, 22	37	16th	—	—	1.34	34	—30	13	9th	14	4	0	0	0	0	6	—	0	4.68	+0.28	37	
		9	9	9	24	63.8	49.8	56.8	+0.3	70	6, 7, 22	37	16th	—	—	1.34	34	—30	13	9th	14	4	0	0	0	0	6	—	0	4.68	+0.28	37	
Roche's Pt.	Roche's Pt.	18	—	7	32	62.5	53.2	57.9	+1.3	67	7, 22	44	16th	—	—	2.00	51	—24	16	12th	21	4	0	0	0	0	6	—	0	—	—	—	—
		18	—	7	32	62.5	53.2	57.9	+1.3	67	7, 22	44	16th	—	—	2.00	51	—24	16	12th	21	4	0	0	0	0	6	—	0	—	—	—	—
11. ENGLISH CHANNEL.																																	
Guernsey.	Grange	21	21	9	173	68.2	56.1	62.2	+2.4	79	9th	48	29th	64.4	63.6	1.04	27	—44	14	16th	7	3	0	0	0	1	5	0	0	7.81	+1.71	62	
		8	8	8	180	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Jersey.	St. Aubins	18	—	7	25	70.2	56.3	63.3	+3.0	79	7th	47	29, 30	—	—	1.07	27	—34	22	16th	5	4	0	0	0	1	0	—	0	7.65	+1.45	61	
		18	—	7	25	70.2	56.3	63.3	+3.0	79	7th	47	29, 30	—	—	1.07	27	—34															

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
SEPTEMBER, 1921.

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied.

District-Value Stations.—The Symbols ¶ § placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	6.39	+0.72	51
Hove ..	6.41	—	51
Watergate ..	5.88	—	47
LONDON, Bunhill Row	4.89	+0.92	39
Regent's Park	4.70	—	37
Plumstead ..	5.40	—	43

TABLE III. (b).—RIVER TEMPERATURE.

Highest.	Lowest.	Mean.	Deviation from Normal.	
°F.	°F.	°F.	°F.	
60	55	57·5	+ 2·1	Belper (R. Derwent) 9 h.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
					Station Level.	Deviation from Normal.	Mean Sea Level.	I =Morning: II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of Clear Sky.		Number of Observations adjusted to a total of 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 96 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, SEPTEMBER, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.			
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%
O. SCOTLAND, N.								2. ENGLAND, N.E.—cont.								8a. SOUTH WALES.										
Calth.	Thurso (Buckies)	...	240	3'97	101	—	Yk.,	Holme-upon-Spalding-Moor	...	35	0'70	18	—	Rad.	B'm'gham W.W. (Tyrmyynydd)	...	832	1'80	46	47						
Suth.	Dornoch (St. Gilbert's)	...	35	1'36	35	—	E.R.	Lowthorpe (The Elms)	...	63	0'84	21	49	Card.	Aberystwyth (Gogerddan)	...	83	1'74	44	48						
	Loch More (Achfary)	...	167	8'65	220	151	Line.	Boston (Black Sluice)	...	11	0'68	17	39		Devil's Bridge	...	825	2'85	72							
	Melvich Schoolhouse	...	—	3'98	101	142		Grantham (Saltersford)	...	188	0'56	14	—		Lampeter (Falcondale)	...	498	1'86	47							
	Tongue Manse	...	180	4'59	117	145		Horncastle	...	110	0'55	14	—		Tregaron (Maes-y-bettws)	...	910	2'10	53							
R. & C.	Alness (Ardross Castle)	...	450	1'65	42	56		Louth (Westgate)	...	120	0'47	12	23	Carm.	Carmarthen (The Friary)	...	62	2'10	53							
	Loch Carron (Plockton)	...	4	4'10	104	—								Llanddeusant (Ponterynfe)	...	323	2'10	53								
	Loch Torridon (Bendamph)	...	20	5'38	137	77								Cardiff, W.W. (Beacons Res.)	...	1340	4'52	115								
Inv.	Arisaig (Faire-na-Sguir)	...	130	5'50	140	—								Crickhowell (Tal-y-maes)	...	1250	1'00	25								
	Cluny Castle	...	900	2'65	67	—								Port Talbot (Twyn-yr-hydd)	...	180	2'68	68								
	Drumnadrochit	...	138	—	—	—	Norf.	Aylsham (Rippon Hall)	...	90	0'95	24	—		Treherbert (Tyn-y-waun)	...	801	4'79	122							
	Loch Arkaig (Achnacarry)	...	120	4'85	123	—		Swaffham	...	250	1'14	29	53													
	Loch Quoich (Glenquoich)	...	569	9'89	251	114		Thetford (Waterworks)	...	170	1'24	31	—													
	(Loan)	...	650	14'40	366	—	Suff.	Halesworth Rectory	...	50	1'83	47	—													
	N. Ballachulish (Alltshellach)	...	80	4'72	120	—		Hawkedon Rectory	...	305	1'45	37	75													
	Skye (Dunvegan)	...	47	3'58	91	—	Cambs.	Chatteris (The Priory)	...	45	0'78	20	—	Mon.	Llanfrecfa Grange	...	326	2'68	68	92						
	(Portree)	...	65	3'96	101	—		Ashwell (Odsey)	...	256	1'23	31	—	Som.	Brushford Rectory	...	450	2'37	60	—						
							Essex.	Parson Drove (Clows Cross)	...	13	0'88	22	—		Crewkerne (Merefield House)	...	231	0'74	19	—						
								Elsenham (Gaunts End)	...	363	1'84	47	—		Cutcombe (Wheddon Cross)	...	945	2'90	74	—						
								Lexden (Hill House)	...	90	2'69	68	—		North Cadbury Rectory	...	256	1'39	35	—						
														Hartland Abbey	...	222	2'30	58	—							
														Launceston (Polapit Tamar)	...	315	1'37	35	49							
														Penzance (Trengwainton Ho.)	...	400	0'83	21	—							
														St. Austell (Trevarna)	...	300	1'13	29	35							

MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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Vol. 38, No. 10.

ISSUED BY THE AUTHORITY OF THE METEOROLOGICAL COMMITTEE.

Price 6d. Net, Post free, 7d.

OCTOBER, 1921; VERY WARM. Sunny and Dry, except in extreme North-West.

The outstanding feature of the weather of October was the unprecedented warmth which occurred in the southern parts of the Kingdom during the earlier part of the month and was associated with an anticyclone which lay over central Europe. This distribution of pressure continued practically unbroken during the first three weeks of the month. In the north and west the weather was unsettled owing to the presence of Atlantic depressions. After the third week the continental anticyclone drifted towards the west, and brought finer weather to those districts.

The month opened with a belt of low pressure extending from the Azores along our north-west coasts to Scandinavia. A shallow depression which lay off the south-west of these islands on the evening of the 2nd travelled across Scotland during the early hours of the 3rd and growing deeper, passed rapidly away to Scandinavia accompanied by gales and sleet (see Map, track A). It proved to be almost the only break in the anticyclonic conditions which prevailed in the south-east during the first three weeks of the month. Between the continental anticyclone and an anticyclone off the north of Scotland, which appeared in the rear of the depression, was an area of relatively low pressure. There was a marked contrast of temperature between its northern and southern sides, the former being under the influence of northerly breezes from Scandinavia and the latter under the influence of southerly breezes from France. This system remained stationary for about twelve hours and was accompanied by considerable rainfall, 44 mm. being reported at Cranwell, 25mm. at Nottingham, and 14mm. at Manchester during the night of the 3rd-4th. The southerly current appears to have been drawn directly from Africa and remarkably high temperatures were recorded both in England and on the Continent. A reading of 307a was registered at Biarritz on the 4th. Kew recorded 301a on the 5th and 6th, and 300a on the 9th. These were the highest October readings ever recorded at Kew, the previous highest being 298a on October 4th, 1886. Abnormally high minima of 290a at Kew, and of 289a at Falmouth occurred on the night of the 3rd-4th, and of 290a at Valencia on the night of the 5th-6th. These minima were records for the time of year at each of these observatories. On the evening of the 9th a well marked secondary depression appeared off the south-west of Ireland and travelled northwards (see Map, track C). Strong northerly winds prevailed in its rear, and there was heavy rain in the west and south-west of Ireland. Rain also fell in south-eastern England, and thunder was reported locally. The depression which lay over northern Ireland on the 10th and 11th gradually dispersed. Under the influence of a deep depression which lay to the north of Iceland on the 14th, and travelled away towards Spitzbergen, gales and high winds extended over a wide area embracing the north of Scotland, Scandinavia and Denmark. Cooler air in the rear of this depression invaded the south-east of England, and local ground frosts occurred on the night of the 14th-15th, and on some succeeding nights. Under the influence of an Atlantic depression unsettled weather prevailed in our western districts during the next few days. A small secondary to this depression passed up the English Channel on the 20th, and thunder was reported locally in the south. A local storm of great violence, but unaccompanied by thunder or lightning, broke over Shanklin, Isle of Wight, during the early morning of the 20th, and yielded 33mm. of rain. Considerable damage was done to roads, and low lying streets were flooded. With the approach of a depression from the Atlantic on the evening of the 21st, the long spell of mild anticyclonic weather was terminated. The depression travelled across the Kingdom from west to east on the 22nd, and on the morning of the 23rd was situated over Denmark (see Map, track J). It produced a marked fall of temperature. Minima of 267a and 271a respectively were recorded at Renfrew and Benson on the 24th. An anticyclone which appeared off the south-west of the British Isles on the 24th dominated the weather over the southern districts during the remainder of the month. An Icelandic depression caused unsettled weather in the extreme north and north-west during this period.

In London (Camden Square) it was the warmest October during sixty-four years' record, and was the 14th consecutive month with a mean temperature above the average.

In Scotland as in England, October was remarkable for the unusual warmth which prevailed during the earlier part of the month. During the last sixty years the only year with a warmer October was 1908. During the warm spell 300a was recorded at Cargen on the 9th. The only really cold weather occurred in the rear of the depression which travelled across the Kingdom on the 22nd and produced a marked fall of temperature over the whole of the British Isles. A maximum as low as 275a was registered at Eskdalemuir on this day, with snow in places from the 20th-24th. The lowest reading reported in any part of Scotland during the month was 267a at West Linton and Renfrew on the 24th. Under the influence of a depression which skirted the north-west coast rain occurred widely from the 1st to the 6th. At Paisley 25mm. or more were recorded on the 1st, and at Fort William on the 2nd and 3rd. Thunderstorms were reported at many stations on the 5th and 6th. On the former day serious flooding was experienced in the Lochaber district.

On the 13th and during the succeeding week the weather was generally unsettled. 56mm. fell at Glencarron on the 17th. From the 23rd to 30th the month was rainless in some districts, but was followed by heavy falls on the 31st. Over Scotland generally there was a very unequal distribution of rainfall. In some districts there was a deficiency, but in others an excess. This amounted to as much as 50 per cent. at Fort William where 274mm. were recorded. The month was very cloudy towards the north. At Stornoway it was the most cloudy October for at least forty years. In some southern districts sunshine amounts were above the normal.

In Ireland temperature was everywhere in excess of the normal. Generally speaking there was an excess of precipitation in the north and a deficiency in the south. Sunshine was considerably below the normal. In Dublin the mean temperature of the month was unusually high. Although the number of rain days was only one below the normal there was a considerable deficiency of precipitation.

The following remarks by observers illustrate the generally warm and dry character of the month. Huddersfield (Yorkshire).—Mildest October on the record of fifty years. Meltham (Yorkshire).—Much the warmest in the record of forty-three years.—Hodsock Priory (Nottingham).—By far the warmest October in my record. Sunshine more than in any of the previous forty years with the exception of 1893. Tenbury (Worcester).—Remarkably fine, mild and dry month. The ninth successive month with the rainfall less than the average. Ipswich (Suffolk).—The temperature of the month just ended is probably more remarkable than anything we have experienced so far during this wonderful year. In twenty years there have been in all eighteen days in which the thermometer has reached 294a in October, and of these no less than ten have been during this month. Southport (Lancashire).—This was much the warmest October since the record commenced in 1871, and was warmer than the great majority of Septembers. Sheepstor (Devon).—Between May 31st and October 23rd the temperature in the screen failed to reach 289a on two days only; an occurrence at this altitude (730 ft.) probably without precedent. Tavistock (Devon).—The driest October ever registered. Redruth (Cornwall).—Mean temperature 2.8a above average of twenty years, being the highest for the whole period of observations.

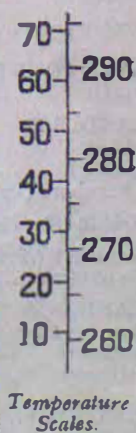
Air Pressure.—The general trend of the isobars was in accordance with the normal, but pressure was everywhere greatly in excess. The excess ranged from +9.4 mb. at St. Ann's Head to +4.4mb. at Lerwick. The highest reading recorded during the month was 1038mb. at Valencia on the 28th, and the lowest 995mb. at Spurn Head on the 22nd.

Temperature.—The mean temperature of the month was much above the normal in all districts. The excess ranged from +3.6a in England north-west to +2.3a in Scotland north.

Precipitation.—The deficiency of rainfall which has prevailed over the south-eastern half of the Kingdom for so many months in succession was again in evidence during October. The areas with an excess were mostly confined to the north-west of Ireland and the western districts of Scotland. As much as 50 per cent. above the normal was recorded locally in these districts. Less than half the normal fell over the greater part of the region lying to the south of a line from the Bristol Channel to the Wash. In the south of Kent only about 10 per cent. of the normal fall was recorded. Areas with less than 25mm. were confined to the south of England. Along the coasts of Kent and Essex the fall did not exceed 12mm. More than 100mm. fell in the usually wet districts in the north and west of the Kingdom. More than 250mm. were recorded in North Wales and in Connemara and over a large part of the Western Highlands of Scotland. At Loan, near Loch Quoich, as much as 546mm. were recorded. Heavy rain fell locally in south-eastern England during a thunderstorm on the 20th, when 62mm. were recorded at Horsmonden, near Tunbridge Wells. For the nine months from February to October a large area in the south of England has had less than half the average fall. The general rainfall for October, expressed as a percentage of the average, was: England and Wales 51; Scotland 105; Ireland 92; British Isles 80.

Sunshine.—Except in Ireland and the north of Scotland insolation was above the normal in all districts. The departure from the normal ranged from +1.90 hrs. per day in England south-east to -1.22hrs. per day in Ireland south.

Optical Phenomena.—Solar and lunar halos were frequently observed in different parts of the Kingdom. Aurora was seen at various Scottish stations; notably at Aberdeen on the 8th, 21st, 28th, and 31st, and on various dates at Lerwick.



The article by Mr. M. A. GIBBERT in the *Meteorological Magazine* for November has been utilised in the preparation of this summary.

TABLE I.—DISTRICT VALUES—OCTOBER, 1921. [1908.]

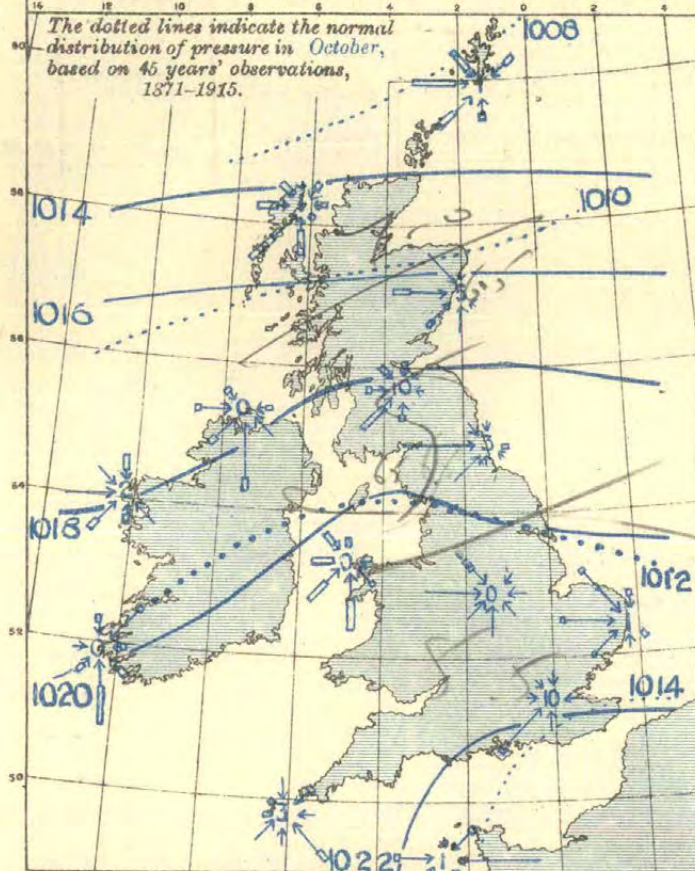
DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount.			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Deviation from Average.	At 4 ft.	Deviation from Average.	Total.	Deviation from Normal.	Number of Days.	Daily Mean.	Deviation from Normal.	Per cent.	I.	II.	III.	Highest.	Date.	Lowest.	Date.	
			Daily Max.	Daily Min.	Daily Mean.	Deviation from Normal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	74	25	200+ 86.1	200+ 80.4	200+ 83.3	+2.3	83.2	+0.2	—	—	6.01	153	+ 26	24	1.42	-1.08	14	8.4	8.5	7.7	1032	25	934	31
Eastern.																								
1. SCOTLAND, EAST ...	75	22	87.1	80.2	83.7	+2.6	83.7	—	84.2	+0.9	2.91	74	- 9	19	2.92	+0.12	28	6.9	6.7	6.9	1032	26	997	31
2. ENGLAND, N.E. ...	79	28	89.7	81.9	85.8	+3.6	84.9	+1.9	85.9	+1.3	1.90	48	- 27	11	4.26	+1.23	41	5.7	6.7	5.9	1035	15	995	22
3. ENGLAND, EAST ...	80	28	90.7	82.1	86.4	+3.6	86.1	+2.0	87.2	+1.5	1.07	27	- 40	11	4.68	+1.35	44	6.3	5.6	4.4	1037	15	1000	22
4. MIDLAND COUNTIES ...	82	26	90.6	80.9	85.7	+3.6	85.4	+1.7	86.1	+1.3	1.78	45	- 29	10	4.47	+1.59	42	6.1	5.4	4.8	1036	15	999	22
5. ENGLAND, S.E. ...	84	26	91.7	82.1	86.9	+3.5	86.3	+1.8	87.6	+1.5	0.92	23	- 65	8	5.34	+1.90	50	5.6	5.2	4.8	1037	15	1003	22
Western.																								
6. SCOTLAND, WEST ...	80	22	87.7	81.8	84.8	+3.0	84.7	+2.2	85.3	+0.9	4.60	117	- 2	21	—	—	—	8.2	8.1	7.6	1034	25	1003	3.22
7. ENGLAND, N.W. ...	79	25	89.6	82.8	86.2	+3.6	85.5	+2.3	86.1	+1.3	2.90	74	- 23	13	3.34	+0.49	32	7.0	7.1	6.6	1035	15, 28	1000	3
8. ENGLAND, S.W. ...	82	23	90.6	82.7	86.7	+3.4	87.2	+2.1	88.0	+1.3	1.63	41	- 75	10	4.27	+1.00	40	5.7	5.6	5.3	1036	15, 28	999	2
9. IRELAND, NORTH ...	70	30	88.1	82.7	85.4	+3.2	85.8	+1.7	86.1	+0.8	4.23	108	+14	22	1.83	-1.04	17	8.0	8.2	7.4	1035	28	1002	2
10. IRELAND, SOUTH ...	74	30	88.9	83.1	86.1	+3.2	86.3	+1.9	86.6	+1.1	2.88	73	- 27	19	2.05	-1.22	19	7.4	8.1	6.3	1038	28	1000	9
11. ENGLISH CHANNEL ...	78	42	91.7	85.4	88.6	+3.4	88.6	+2.2	89.2	+1.5	1.00	25	- 80	10	5.43	+1.46	51	5.6	5.5	3.7	1037	28	1003	2
Mean: DISTRICTS 1—10..	84	22	89.5	82.0	85.8	+3.3	85.6	+2.0	86.3	+1.2	2.48	63	- 28	14	3.68	+0.60	35	6.7	6.7	6.0	1038	—	995	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND.—OCTOBER, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††								Extreme Velocities.				
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.		High Speed.		
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.	Mid Time.				
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	day.	hr.	m/s.
0. SCOTLAND, N.																
Deerness (Cup Anr.) ...	188	16	5	28, 29, 31	16	15	93	377	208	50	0	290	20	29	5	—
1. SCOTLAND, E.																
Dyce ...	305	75	15*	—	0	—	0	20	484	203	37	310	8	29	13	18
Aberdeen (Cup Anr.) ...	120	72	12	—	0	1	1	107	505	131	0	290	11	31	23	—
Balmakewan ...	140	25	18	—	0	3	7	212	350	175	0	270	13	31	18	24
Rosyth ...	85	73	19	—	0	8	29	264	289	162	0	220	17	31	14	25
Edinburgh ...	485	39	31	—	0	7	28	255	300	161	0	220	16	31	18	26
6. SCOTLAND, W.																
Eskdalemuir ...	825	50	22	28, 29, 31	11	10	59	208	267	199	0	300	20	28	13	28
Paisley... ..	188	81	15	—	0	2	2	171	363	183	25	310	11	29	16	24
2. ENGLAND, N.E.																
Alnwick Castle ...	340	70	17	—	0	—	0	71	289	335	49	160	11	31	22	20
South Shields ...	72	61	12	—	0	5	21	208	338	177	0	270	14	31	24	25
Spurn Head ...	67	41	†	Instrument dismantled.												
Cranwell ...	278	43	31	—	0	4	14	212	416	99	3	320	13	22	22	18
Howden ...	61	41	29	—	0	5	10	144	373	217	0	360	13	22	20	18
3. ENGLAND, E.																
Gorleston ...	52	42	†	—	0	3	10	149	469	113	3	10	13	24	7	22
Felixstowe ...	58	40	23	—	0	2	9	114	510	99	12	290	14	22	23	21
Shoeburyness ...	103	90	†	—	0	1	2	118	482	138	4	230	11	22	17	19
												290			23	
4. MIDLAND COUNTIES.																
Benson ...	270	84	†	—	0	—	0	80	295	369	0	200	11	3	3	17
5. ENGLAND, S.E.																
Calshot ...	45	40	31	—	Out of Action.											
Brighton ...	261	53	6	—	0	1	3	115	476	150	0	—	12	22	19	21
S. Farnboro' (Pye's Tr.) ...	443	152	†	—	0	5	25	215	396	108	0	210	14	3	3	21
Larkhill (S'y Plain) ...	513	63	43	—	0	4	14	204	493	10	23	200	13	3	2	18
												310		22	21	
Richmond (Kew Obs.) ...	82	65	22	—	0	—	0	40	319	385	0	220	10	3	4	17
Isle of Grain ...	65	45	30	—	Defective Records.											
7. ENGLAND, N.W.																
Fleetwood (Cup. Anr.) ...	109	44	—	—	0	8	60	230	427	27	0	310	16	29	21	—
Southport ...	80	62	48	29, 31	2	8	56	228	419	39	0	290	18	29	12	23
Holyhead ...	60	40	†	—	0	5	35	352	318	38	1	300	16	22	17	22
8. ENGLAND, S.W.																
Pendennis Castle§ ...	256	65	24	2, 22	8	11	66	257	308	91	14	—	20	2	20	25
Plymouth ...	185	88	2	—	0	2	8	116	376	244	0	—	14	2	19	19
Lyme Regis ..	556	61	†	—	0	—	0	40	462	231	11	—	11	23	22	14
10. IRELAND, S.																
Kingstown (Cup Anr.) ...	49	27	—	—	0	6	27	261	387	69	0	260	13	28	13	—
Quilty ...	100	40	†	—	0	4	27	314	360	43	0	—	16	23	9	23
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	5	29	256	323	136	0	340	13	23	13	21
Weaver Pt. ...	160	30	†	—	0	4	18	267	406	38	15	—	13	22	16	22
														23	14	
Baldonnell ...	321	42	31	—	0	4	4	195	325	220	0	160	12	5	11	16
11. ENGLISH CHANNEL.																
Scilly (Cup Anr.) ...	150	19	—	23	1	4	35	166	476	66	0	320	19	23	17	—

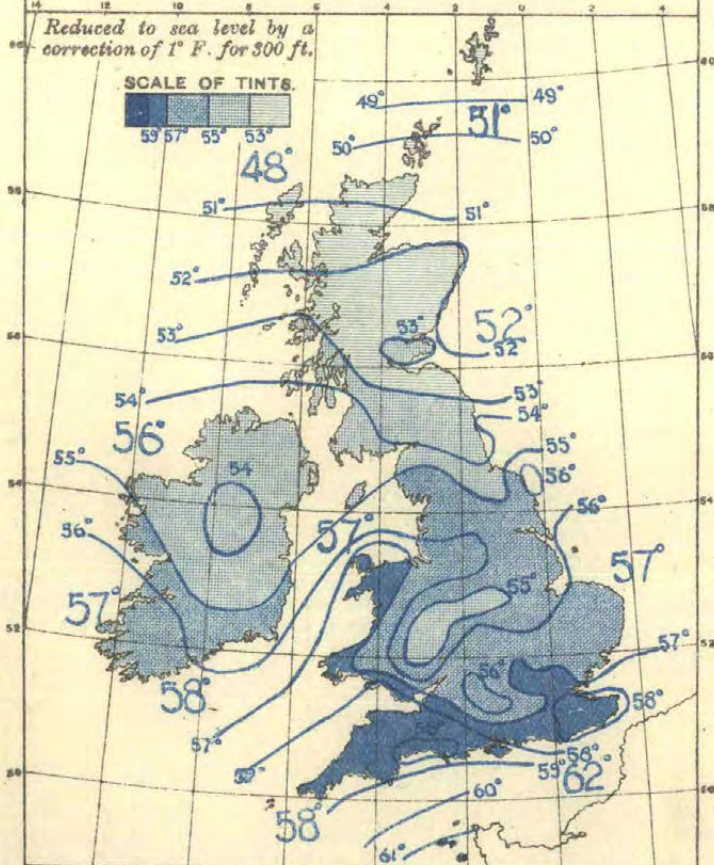
†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]
 *Above tops of trees. † Standard mounting. § Direction from the Robinson Anemometer at Falmouth Observatory.

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



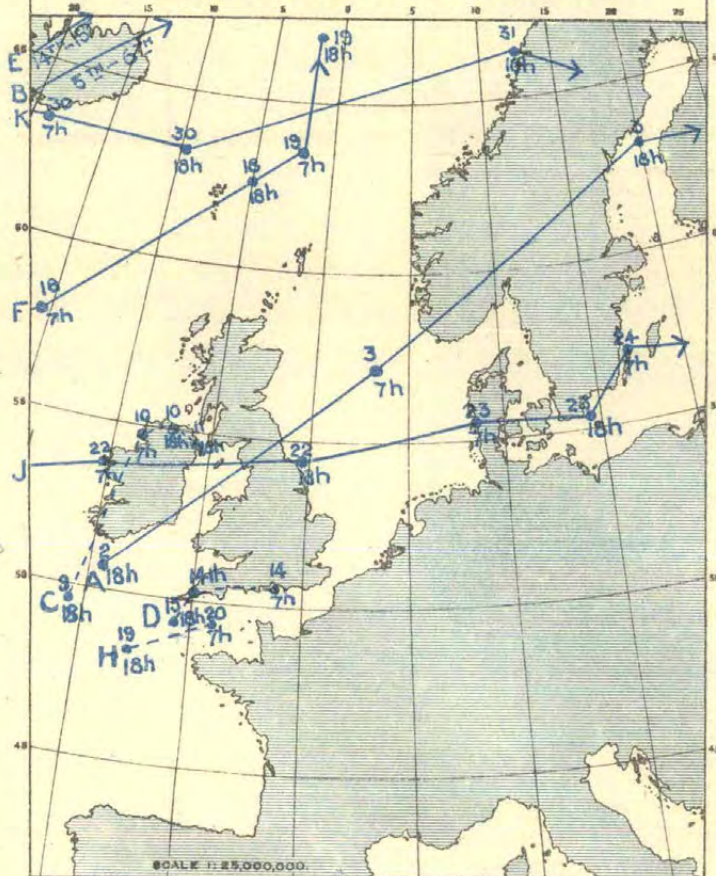
WIND ROSES The arrows fly with the wind and indicate frequency and force, thus: LIGHT TO STRONG GALE. 30 OBS. = 1 inch.

3. DISTRIBUTION OF MEAN TEMPERATURE.



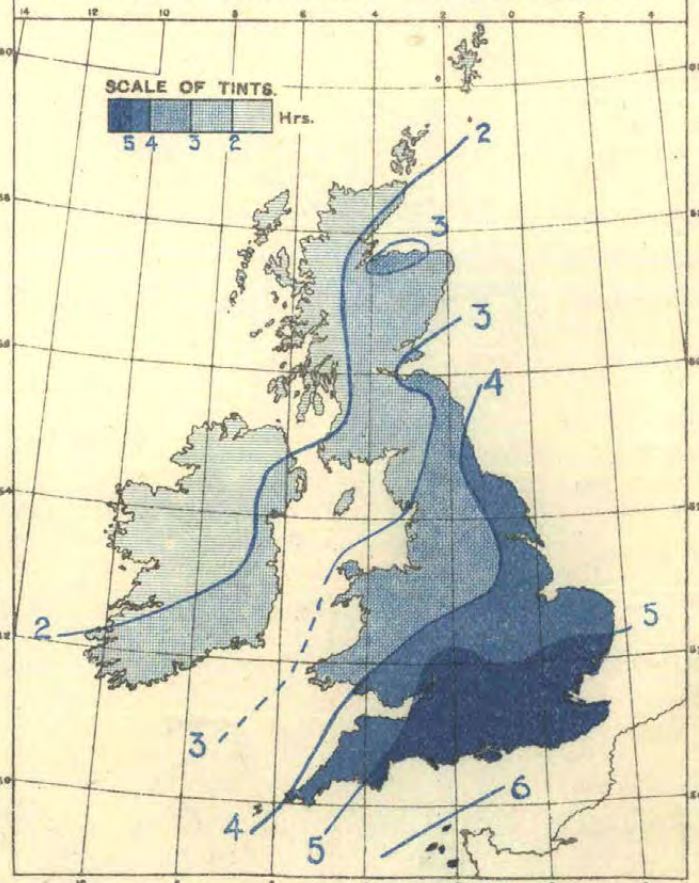
Sea temperatures are shown in large figures, thus: 57°

2. MOVEMENTS OF DEPRESSIONS.



Broken lines show tracks of secondary depressions

4. BRIGHT SUNSHINE, HOURS PER DAY.



Ps. 367/363. wt. 37. D. 617/0 147. 1200. 11/21

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.	Rain.	ft.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation.	Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
					A	B		Maximum.	Date.	Minimum.	Date.			Amount.												Date.	Daily Mean.	Deviation from Normal.	Per Cent.				
					Max.	Min.																								Mean of A and B.			
0. SCOTLAND, N.																																	
Shetlands.	Balsasound	...	9	9	31	52.6	43.2	47.9	—	61	6th	33	4th	47.8	—	5.80	147	—	20	20th	29	23	0	0	0	6	2	7	7	4	1.94	—	19
	Lerwick	...	18	7	7	54	51.7	44.2	43.0	+1.8	61	6, 9	35	22, 24	—	4.58	116	+16	15	20th	26	20	1	0	0	0	2	7	4	—	—	—	
Orkneys.	Deerness	...	21	21	9	160	53.8	45.3	49.6	+2.7	59	9th	36	22nd	—	3.88	99	+3	22	27th	27	23	0	0	0	0	2	5	3	1.74	-0.71	17	
	Kirkwall	...	9	9	9	100	54.3	46.5	50.4	—	63	5, 6	36	22nd	—	4.37	111	—	21	27th	28	20	0	0	0	0	1	4	2	—	—	—	
Hebrides.	Castlebay	...	18	7	7	37	54.6	50.1	52.4	—	59	5, 9	40	23rd	—	4.93	125	—	35	9th	26	18	1	0	0	3	0	6	0	1.15	—	11	
	Stornoway	...	18	7	7	51	54.8	46.9	50.9	+4.2	67	5th	29	23rd	—	4.82	122	-10	15	2nd	27	21	0	0	0	0	1	0	0	1.10	-1.67	11	
Calthness.	Wick ...	...	18	7	7	81	54.0	45.3	49.7	+3.1	63	6th	30	22nd	—	2.31	59	-16	7	20th	24	18	0	0	0	0	1	3	0	—	—	—
	Dunrobin	...	9	9	9	12	57.9	45.4	51.7	+3.3	65	1, 5, 9	31	24th	51.0	2.50	64	-9	14	20th	15	15	2	0	0	0	2	0	2	2.87	—	28	
Ross and Cromarty.	Fortrose	...	9	9	9	69	57.6	45.3	51.5	—	71	9th	31	24th	—	1.49	38	—	7	31st	20	10	0	0	0	0	2	2	0	—	—	—	
	Glencarron	...	21	21	9	500	56.0	44.2	50.1	+4.4	74	5th	28	23, 24	—	10.99	279	+68	56	17th	29	27	0	0	0	0	1	0	0	—	—	—	
	Strathpeffer	...	9	9	9	125	57.8	44.2	51.0	+4.8	70	5, 9	29	23rd	—	2.78	71	+6	14	20th	17	16	0	0	0	2	0	0	—	—	—		
Inverness.	Ft. Augustus	...	9	9	9	68	58.4	45.7	52.1	+5.4	73	5th	25	23rd	—	5.81	148	+48	23	17, 31	21	16	1	0	0	1	0	0	3	—	—	—	
	Ft. William	...	21	21	9	171	56.7	46.7	51.7	+4.2	74	5th	25	24th	—	10.78	274	+95	37	31st	27	27	0	0	0	1	5	0	0	—	—	—	
	Inverness	...	21	21	9	98	58.6	45.3	52.0	—	69	9th	26	24th	52.1	2.06	52	-8	10	2nd	22	11	0	0	0	1	0	0	2	3.13	—	30	
1. SCOTLAND, E.																																	
Nairn.	Nairn	...	18	7	7	82	57.2	43.8	50.5	+4.4	70	5, 9	30	24th	—	2.27	58	-2	8	20th	21	15	0	0	0	0	2	0	0	3.13	—	30	
	Gordon Castle	...	21	21	9	101	59.5	45.1	52.3	+5.2	75	9th	33	22nd	—	2.44	62	-18	11	2nd	21	17	0	0	0	0	0	0	0	3.13	—	30	
Elgin.	Banff ...	...	17	9	9	6	58.0	46.8	52.4	—	71	9th	36	4, 22	—	1.97	50	—	7	13th	22	17	0	0	0	3	0	0	3	2.84	—	28
	Banff	...	17	9	9	6	58.0	46.8	52.4	—	71	9th	36	4, 22	—	1.97	50	—	7	13th	22	17	0	0	0	3	0	0	3	2.84	—	28	
Aberdeen.	Aberdeen	...	24	24	24	46	56.7	46.4	51.6	+4.3	68	10th	35	22nd	52.0	1.48	38	-38	9	2nd	15	9	0	0	0	0	8	2	0	2.54	-0.52	25	
		...																															
	Balmoral	...	9	9	9	930	56.4	42.3	49.4	—	69	9th	26	24th	—	1.49	38	-53	7	31st	19	10	1	0	0	0	3	5	1	—	—	—	
	Braemar	...	21	21	9	1120	56.3	42.1	49.2	+5.7	69	9th	26	24th	—	2.10	53	-42	7	31st	20	18	1	1	0	0	0	0	5	0	—	—	—
Kincardine.	Logie Coldstone	...	9	9	9	608	58.8	43.5	51.2	—	74	9th	31	22nd	—	1.23	31	-51	5	1, 22	19	12	0	0	0	0	0	0	7	0	—	—	—
	Crathes...	...	9	9	9	269	57.9	44.1	51.0	+5.3	68	9, 10	32	24th	49.4	50.2	1.36	35	—	6	2nd	22	8	0	0	0	1	3	7	0	2.65	-0.32	26
Forfar.	Arbroath	...	9	9	9	67	58.5	46.4	52.5	—	70	9th	33	24th	—	1.82	46	—	9	22nd	16	13	0	0	0	0	1	0	0	—	—	—	
	Carnoustie	...	9	9	9	39	57.6	45.7	51.7	—	67	9, 10	29	23rd	—	1.82	46	—	8	22nd	18	12	0	0	0	0	2	0	0	2.84	—	27	
Dundee E. Nec.	Dundee E. Nec.	...	21	21	9	160	57.4	45.6	51.5	+4.8	70	9th	32	24th	—	2.42	61	-7	9	2nd	19	15	0	0	0	0	0	1	0	—	—	—	
	„ Coll. Gdns.	...	9	9	9	244	58.1	43.7	50.9	—	69	9th	29	24th	51.2	2.40	61	—	10	2nd	19	14	0	0	0	0	4	4	0	2.61	—	25	
	Kettins	...	9	9	9	218	57.8	44.1	51.0	—	71	9th	28	23, 24	—	2.48	63	—	9	1st	19	14	0	0	0	0	1	4	0	—	—	—	
	Lednathie	...	9	9	9	720	56.9	—	—	—	72	9th	—	—	—	2.54	65	—	17	2nd	12	12	1	0	0	0	8	0	0	—	—	—	
	Montrose	...	17	9	9	16	57.7	45.9	51.8	—	67	6, 9, 10	34	22, 24	—	1.39	35	—	9	2nd	17	11	0	0	0	0	5	0	0	2.87	—	28	
Perth.	Crieff ...	...	21	21	9	478	57.4	44.9	51.2	+4.3	70	9th	30	24th	—	3.88	99	-1	21	1st	20	18	0	0	0	0	0	0	0	—	—	—
	Perth ...	...	9	9	9	76	58.6	45.5	52.1	+5.7	73	9th	27	24th	—	3.17	81	+6	13	6th	16	16	0	0	0	0	2	0	0	2.42	—	23
Fife.	Cupar...	...	9	9	9	210	58.7	46.2	52.5	—	71	9th	31	24th	—	2.67	68	—	10	21, 22	19	14	0	0	0	0	5	0	0	—	—	—	
	Inchkeith	...	18	7	7	190	56.3	49.3	52.8	—	67	1st	37	24th	—	3.61	92	—	29	22nd	15	13	0	0	0	0	4	0	0	—	—	—	
	Kirkcaldy	...	9	9	9	66	58.6	47.8	53.2	—	68	1st	31	24th	—	3.59	91	—	19	21st	16	13	0	0	0	0	1	1	0	—	—	—	
	St. Andrews	...	17	9	9	20	58.9	45.8	52.4	—	68	1, 10	32	24th	52.0	2.91	74	—	15	22nd	15	13	0	0	0	0	2	2	0	3.13	—	30	
Ljnlithgow.	Bangour	...	21	21	9	587	56.8	44.3	50.6	—	68	1, 9	26	24th	—	4.10	104	—	18	22nd	17	13	1	0	0	0	1	3	—	—	—		
Edinburgh.	Blackford Hill	...	21	21	9	441	58.4	47.4	52.9	+5.5	71	5th	32	24th	—	3.80	97	+31	20	22nd	16	12	1	0	0	0	3	2	0	3.61	+0.42	35	
	Liberton	...	9	9	9	190	59.4	—	—	—	71	5th	—	—	—	3.75	95	—	21	21st	15	12	1	0	0	0	3	0	0	—	—	—	
	Edin. Univ.	...	9	9	9	227	59.4	48.7	54.1	—	69	5, 6, 10	33	23, 24	52.1	53.7	4.13	105	+39	22	21st	14	12	0	0	0	0	6	0	—	—	—	
Haddington.	Smeaton	...	9	9	9	100	59.8	44.8	52.3	—	70	5, 6, 9	29	24th	51.7	3.09	78	—	22	22nd	15	15	0	0	0	0	0	6	0	—	—	—	
Berwick.	Marchmont	...	9	9	9	498	—	45.4	—	—	—	—	33	23, 24	—	3.30	84	-13</															

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.							Earth Temperature at 7.8 or 9 ft.		RAINFALL.			WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.			Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
									A	B	Maximum.					Date.	Minimum.									Date.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	

|| The sunshine recorder is at Southsea.

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.		AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation in in. or more.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, OCTOBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.		
						Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.			Most in a day.		Precipitation.	Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.			
						A	B			Maximum.	Date.	Minimum.	Date.					Amount.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.	
						Max.	Min.																									1 ft.	4 ft.
9. IRELAND, N.																																
Sligo.	Markree Castle	21	21	9	122	60.2	47.1	53.7	+5.8	70	5th	30	20th	55.7	55.8	3.54	90	—13	22	21st	25	20	0	0	0	0	1	4	0	1.40	—1.44	13
Mayo.	Blacksod Pt.	18	—	7	10	58.7	51.9	55.3	+4.9	69	5th	40	23rd	—	—	9.93	252	+125	78	9th	26	22	0	0	0	0	0	—	0	—	—	—
Donegal.	Mallarany	9	9	9	120	58.8	49.9	54.4	—	68	5th	38	24th	—	—	1105	281	—	83	9th	22	22	0	0	0	0	0	2	0	1.23	—	12
	Dunfanaghy	21	21	9	50	58.8	49.9	54.4	—	70	5th	37	23rd	—	—	4.01	102	—	21	21st	22	18	0	0	0	0	0	—	0	—	—	—
	Malin Head	18	—	7	208	57.5	51.3	54.4	+5.0	69	5th	39	23rd	—	—	3.07	78	+3	19	21st	21	16	0	0	0	0	3	—	0	1.49	—	14
Antrim.	Lisburn	9	9	9	206	—	—	—	—	—	—	—	—	—	—	3.93	100	—	44	21st	15	12	0	0	0	0	3	—	0	—	—	—
Down.	Donaghadee	18	—	7	35	58.6	49.4	54.0	+4.7	65	1, 9, 10	37	23rd	—	—	3.41	87	+14	30	21st	19	14	0	0	0	0	2	8	—	0	—	—
Armagh.	Armagh	21	21	9	204	59.6	47.6	53.6	+5.6	70	9th	33	23rd	54.7	55.1	2.81	71	+2	29	21st	20	12	0	0	0	0	4	2	0	2.26	—0.61	22
Longford.	Newtownforbes	21	21	9	161	59.5	45.1	52.3	—	68	4, 5	33	22, 23	54.7	55.5	2.66	68	—	11	21st	17	14	0	0	0	0	3	—	0	—	—	—
10. IRELAND, S.																																
Dublin.	Baldonnell	18	—	7	262	61.1	48.1	54.6	—	73	5th	32	24th	—	—	2.38	61	—	13	22nd	17	13	0	0	0	1	1	3	0	2.42	—	23
	City	21	21	9	54	60.3	50.0	55.2	+5.2	70	5th	36	23, 24	—	—	1.95	49	—19	11	22nd	17	12	0	0	0	1	1	0	0	—	—	—
	Glasnevin	21	21	9	55	61.5	47.2	54.4	+5.8	71	5th	32	23, 24	—	—	2.10	53	—16	12	22nd	19	14	0	0	0	0	3	3	0	—	—	—
	Phoenix Pk.	21	21	9	155	61.6	44.8	53.2	+4.9	72	5, 8	30	20, 24	—	—	2.46	63	—4	14	22nd	18	14	0	0	0	1	0	5	0	2.00	—1.35	19
	Trin. Coll.	21	21	9	12	61.1	48.0	54.6	+4.4	71	5th	34	24th	55.6	56.3	1.85	47	—17	10	22nd	17	11	0	0	0	0	0	5	0	—	—	—
	Ranelagh	21	21	9	61	61.0	48.3	54.7	—	73	5th	35	20, 23	—	—	1.75	45	—	10	22nd	16	10	—	—	—	—	—	0	—	—	—	—
Wicklow.	Newcastle	21	21	9	256	61.2	48.5	54.9	—	74	8th	36	20, 21	—	—	2.57	65	—	22	3rd	16	12	0	0	0	0	0	—	0	—	—	—
Kildare.	Clongowes Wood	9	9	9	246	—	—	—	—	—	—	—	—	—	—	1.99	51	—	10	4th	13	11	—	—	—	—	—	0	2.04	—	19	
King's Co.	Birr Castle	18	—	7	175	60.0	48.8	54.4	+6.5	69	4, 5	30	24th	56.4	56.7	2.64	67	—7	10	22nd	21	16	0	0	0	0	0	4	0	1.70	—1.46	16
Queen's Co.	Mountmellick	9	9	9	252	60.7	47.5	54.1	—	70	5th	30	24th	—	—	2.36	60	—	18	3rd	15	13	—	—	—	—	—	—	0	—	—	—
Kilkenny.	Kilkenny	9	9	9	195	60.6	46.8	53.7	+5.1	69	4th	30	24th	—	—	2.41	61	—19	12	3rd	14	13	0	0	0	0	1	—	0	—	—	—
Wexford.	Newtownbarry	9	9	9	153	60.5	45.7	53.1	—	69	9th	32	24th	—	—	3.46	88	—	29	3rd	16	12	—	—	—	—	—	—	—	—	—	—
Waterford.	Waterford	9	9	9	137	60.8	49.2	55.0	+4.8	68	5th	35	24th	—	—	2.64	67	—33	17	4th	16	14	—	—	—	—	—	—	—	—	—	—
	Gortmore	21	21	9	16	61.4	48.3	54.9	—	68	6th	36	15, 23-25	—	—	2.87	73	—	11	1st	20	14	—	—	—	—	—	—	—	—	—	—
	Seakin, Carrick-on-Suir.	21	21	9	542	59.3	48.0	53.7	—	67	4, 8	33	24th	—	—	2.29	58	—	13	3rd	18	11	0	0	0	1	7	3	0	2.46	—	23
Limerick.	Foynes	9	9	9	50	61.1	50.8	56.0	+6.0	70	4, 5	38	20, 24	—	—	2.88	73	—21	20	9th	20	11	—	—	—	—	—	—	—	—	—	—
	Mungret	9	9	9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	College	9	9	9	174	62.5	51.7	57.1	+6.8	73	4th	35	20th	—	—	3.79	96	—40	18	9th	19	13	—	—	—	—	—	—	—	—	—	—
Kerry.	Killarney	24	24	24	30	60.3	51.8	56.1	+4.6	68	2nd	38	20th	—	—	4.19	106	—36	30	17th	21	18	0	0	0	0	1	0	0	2.20	—1.06	21
	Cahiriveen (Val. Obs.)	9	9	9	24	61.0	48.1	54.6	+5.3	68	4th	33	21, 24	—	—	2.16	55	—48	16	3rd	17	10	0	0	0	0	2	—	0	2.31	—0.85	22
Cork.	Ballinacurra	9	9	9	24	61.0	48.1	54.6	+4.2	68	4th	33	21, 24	—	—	2.16	55	—48	16	3rd	17	10	0	0	0	0	2	—	0	2.31	—0.85	22
	Roche's Pt.	18	—	7	32	60.3	52.6	56.5	+5.2	65	4, 6	38	24th	—	—	2.52	64	—40	16	1st	26	12	0	0	0	0	7	—	0	—	—	—
11. ENGLISH CHANNEL.																																
Guernsey.	Grange	21	21	9	173	67.5	54.3	60.9	+6.8	78	5, 6	45	24th	60.0	61.1	0.66	17	—104	6	22nd	8	4	0	0	0	0	3	0	0	6.48	+2.42	60
Jersey.	St. Aubins	18	—	7	25	67.5	54.2	60.9	+6.8	78	5th	42	31st	—	—	0.61	16	—100	6	22nd	6	6	0	0	0	0	1	—	0	6.12	+2.06	57
Selly.	St. Mary's	18	—	7	131	62.1	54.3	58.2	+4.4	68	5th	45	24th	—	—	1.72	44	—49	22	13th	15	7	0	0	0	1	6	—	1	3.69	—0.15	34
GIBRALTAR	...	18	—	7	44	74.1	65.7	69.9	+3.5	81	1st	57	27, 28	—	—	1.07	27	—61	12	4th	6	4	0	0	0	2	0	0	0	—	—	—
MALTA	...	18	7	7	194	74.7	66.6	70.7	—	81	12th	63	24, 30	—	—	0.67	17	—	12	18th	7	4	0	0	0	0	0	0	0	—	—	—

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
OCTOBER, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	5.56	+1.82	52
Hove ..	5.54	—	52
Watergate ..	5.68	—	53
LONDON, Bunhill Row	5.86	+1.80	36
Regent's Park	4.22	—	39
Plumstead ..	4.17	—	44

TABLE III. (b).—RIVER TEMPERATURE.

DISTRICT AND STATION.	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	59	48	54.2	+4.3

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Seskin (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirelveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied

District-Value Stations.—The Symbols ¶ § placed against the names of stations in Table III indicate those which are utilised for computing District-Values of rainfall and temperature and of sunshine respectively.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of OCTOBER, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column I for exact hours.												Mean Amount.			No. of days of	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, OCTOBER, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total Fall.	Percentage of Normal.				
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%	
O. SCOTLAND, N.								2. ENGLAND, N.E.—cont.								8a. SOUTH WALES.											
Cath.	Thurso (Buckies)	240	3.76	95	—	Yk.	Holme-upon-Spalding-Moor	35	1.47	37	—	Rad.	B'm'gham W.W. (Tyrmynydd)	832	2.50	63	38										
Suth.	Dornoch (St. Gilbert's)	35	2.09	53	—	E.R.	Lowthorpe (The Elms)	63	1.45	37	45	Card.	Aberystwyth (Gogerddan)	83	3.20	81	61										
	Loch More (Achfary)	167	11.23	285	144	Line.	Boston (Black Sluice)	11	2.07	53	76		Devil's Bridge	825	3.72	95	—										
	Melvie Schoolhouse	—	3.92	100	107		Grantham (Saltersford)	188	1.43	36	—		Lampeter (Falcondale)	498	2.99	76	—										
R. & C.	Tongue Manse	180	3.97	101	95		Horncastle	110	1.32	33	—	Carm.	Tregaron (Maes-y-bettws)	910	3.00	76	—										
	Alness (Ardross Castle)	450	2.90	74	75		Louth (Westgate)	120	1.28	33	40		Carmarthen (The Friary)	62	3.36	85	—										
Inv.	Loch Carron (Plockton)	4	5.80	147	—							Brec.	Llanddeusant (Pontorynfe)	323	3.36	85	—										
	Loch Torridon (Bendamph)	20	10.38	264	129								Cardiff, W.W. (Beacons Res.)	1340	3.20	81	—										
	Arisaig (Faire-na-Sguir)	130	8.06	205	—		3. ENGLAND, E.					Glam.	Crickhowell (Tal-y-maes)	1250	2.00	51	—										
	Cluny Castle	900	4.11	104	—	Norf.	Aylsham (Rippon Hall)	90	1.87	47	—		Port Talbot (Twyndyr-hydd)	180	1.66	42	—										
	Loch Arkaig (Achnacarry)	120	12.21	310	—		Swaffham	250	1.65	42	57		Treherbert (Tyn-y-waun)	801	4.26	108	—										
	Loch Quoich (Glenquoich)	569	14.62	371	146		Thetford (Waterworks)	170	1.71	43	—																
	Loch Quoich (Loan)	650	21.50	546	—	Suff.	Halesworth Rectory	50	1.01	26	—																
	N. Ballachulish (Alltshellach)	80	9.51	242	—		Hawkedon Rectory	305	1.30	33	48																
	Skye (Dunvegan)	47	6.52	166	—	Cambs.	Chatteris (The Priory)	45	1.75	44	—	Mon.	Llanfrehfa Grange	326	—	—	—										
	" (Portree)	65	7.00	178	—		Ashwell (Odsey)	256	0.70	18	—	Som.	Brushford Rectory	450	2.20	56	—										
							Parson Drove (Clows Cross)	13	1.32	33	—		Crewkerne (Merefield House)	231	1.22	31	—										
						Essex.	Elsenham (Gaunts End)	363	0.91	23	—		Cutcombe (Wheddon Cross)	945	2.89	73	—										
							Lexden (Hill House)	90	0.63	16	—	Devon.	Hartland Abbey	222	1.83	47	—										
													Launceston (Polapit Tamar)	315	1.56	40	32										
													Penzance (Trenegwainton Ho.)	400	1.66	42	—										
													St. Austell (Trevarna)	300	1.38	35	26										

Knapp Hill (Ulundi) ... Aug. 0.71 in., 18 mm.; Sep. 1.23 in., 31 mm.

METEOROLOGICAL OFFICE, LONDON: G. C. SIMPSON, F.R.S., Director.

F. J. W. WHIPPLE, M.A., Superintendent, Climatology Division,
South Kensington, S.W. 7, November, 1921.

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MONTHLY WEATHER REPORT OF THE METEOROLOGICAL OFFICE.

BRITISH METEOROLOGICAL AND MAGNETIC YEARBOOK. PART II.

SUMMARY OF OBSERVATIONS COMPILED FROM RETURNS OF OFFICIAL STATIONS AND VOLUNTEER OBSERVERS.

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NOVEMBER, 1921; Cold, Dry and Foggy in Great Britain. Rather Mild in Ireland.

November brought to a close the long succession of months with a mean temperature above the normal. With the exception of Scotland and Ireland this feature had characterized each month since the beginning of the year. The long series of months in south-eastern England with precipitation below the normal, however, continued unbroken.

The Icelandic depression which had caused unsettled weather in the extreme northern and north-western parts of the Kingdom at the end of October passed rapidly away, and at 7h. on November 1st was situated over Scandinavia. It was accompanied by severe gales, hail and snow showers. The severity was most marked in the region of the Baltic and North Sea. A wind of force 11 on the Beaufort Scale was reported from the Island of Bornholm, off the south coast of Sweden. It is stated to have blown continuously for a period of twelve hours. The severe gales caused wrecks and loss of life in the North Sea. Phenomenally high tides occurred in the Thames Estuary. In the rear of this depression a complicated distribution of pressure prevailed, accompanied by generally unsettled weather in all parts of the British Isles. Between the 2nd and 5th over 30mm. of rain were registered at Kew Observatory, an amount equal to more than half the average of the month. A depression which appeared off the north-west of Ireland on the 5th travelled rapidly across the centre of England on the succeeding night (see Map, track E). It deepened considerably and at 7h. on the 6th was situated off the east Anglian coast. Gales accompanied by heavy rain prevailed over a wide area and local thunderstorms occurred. Cross-Channel services and telegraphic communications were interrupted. Several wrecks occurred in the North Sea and English Channel. The Northerly winds which prevailed in the rear of this depression were associated with showers of hail, sleet or snow. Cold weather continued over England until the middle of the month. In some places snow lay on the ground several inches deep. Frosts occurred for many nights in succession and were particularly severe on the 8th when a screen minimum of 26.2a was recorded at Shotwick, near Chester. On the 10th and 13th, 26.9a was registered at Kew, a value without precedent as early as November 10th at this station. During this period the extreme north and west were influenced by an Atlantic depression which affected those districts early on the 9th. A typically winter distribution of temperature prevailed over the British Isles for some days, the isotherms running north and south. The south-westerly current in the western districts caused very mild conditions with temperatures above 28.5a. On the other hand in the south-eastern districts which were dominated by a continental anticyclone situated over north Germany and the Baltic region easterly winds and frost prevailed. Skating was enjoyed in many parts of England. After the 13th the whole of the Kingdom came under the influence of an Atlantic depression. From the 13th to 17th small disturbances caused considerable rain and strong winds in the south-west of the British Isles. A well-marked secondary which lay in the region of the Scilly Isles on the 14th and 15th was accompanied by heavy rain over a wide area. Subsequently a large anticyclone, the centre of which lay over northern Scandinavia, extended its influence over the whole of the British Isles, causing an easterly type of weather. A good deal of cloud prevailed with rain on our eastern coasts. During the remainder of the month the western districts were largely under the influence of Atlantic depressions, but in the east the anticyclonic conditions continued with dry, cold and generally fair weather. Thick fog prevailed locally, especially in industrial areas. London suffered severely, especially on the 27th and 28th. The fog proved to be one of the thickest and most persistent of recent years. Vehicular traffic was very much dislocated and considerable inconvenience was caused. In marked contrast to the London area, brilliantly sunny weather prevailed on the south-east coast during this period.

In Scotland the weather of the month was rather variable. The wintry weather which followed in the rear of the depression situated over Scandinavia on the 1st of the month proved to be less intense and less prolonged than in England. Snow fell in various districts on the 3rd, and again in the north-east from the 6th to 8th. At Greenock 28mm. of rain fell on the 22nd. Aggregates were everywhere below the normal, especially towards the north-east, where an extensive area received less than half the normal amount. At Glencarron it was the driest November on record. The lowest temperature recorded anywhere during the month was 26.1a at Logie Coldstone on the 27th and 28th. Fog was rather prevalent, especially towards the end of the month.

In Ireland the month was generally rather mild. Sunshine was deficient, especially in the south. Rainfall was in excess of the normal over most of

the eastern half of the country. In Co. Down the rainfall was 50 per cent. above the average. Over a large area, however, there was a deficiency. The area over which 200mm. fell was much smaller than usual, and was confined entirely to Kerry and Connemara. In Dublin the weather was variable. The opening days of the month were mild, but on the 6th a sudden change occurred, and snow fell on the early morning of the 8th. After the 9th the weather again became mild and unsettled. Fog was prevalent and occurred on several days.

The following remarks by observers illustrate the generally cold and dry character of the month, and the unusual prevalence of easterly winds. Lenton Fields (Nottingham).—Extraordinary lack of south-west winds. Hodsock Priory (Nottingham).—The first cold month after thirteen continuous warm ones: much easterly wind. Leyland (Lancashire).—Rainfall below average. A cold month. Southport (Lancashire).—South-easterly winds more frequent than in any previous November during 51 years' observations. Ipswich (Suffolk).—The minimum temperature on the night of the 27th-28th, 26.7a in the screen and 26.3a on the grass, are the lowest I have ever recorded in November. Bude (Cornwall).—Remarkable for prevailing wind to be east. Carrigoran (Co. Clare).—We have had a remarkable continuation of winds from easterly points.

Air Pressure.—Pressure was everywhere in excess of the normal. The general distribution was of an unusual type, the trend of the isobars being north and south. Pressure was high in the east and low in the west, the monthly averages reflecting the conditions during the month; anticyclonic round the North Sea and cyclonic over the Atlantic. The general conditions are illustrated by the temperature and sunshine maps. Ireland and the extreme west of Great Britain were largely influenced by warm air currents from the Atlantic. The central and eastern districts were fed by cold air from the Continent. The formation of a local area of high pressure south of Lincolnshire, indicated by broken lines on the pressure map, is of interest, and may be compared with a corresponding area of low temperatures in the same region. At the telegraphic stations the excess of the monthly means of pressure from the normal ranged from 9.9mb. at Lerwick to 0.9mb. at Valencia. The highest reading recorded during the month was 1038mb. at Felixstowe on the 10th, and the lowest 982mb. at Lerwick on the 6th.

Temperature.—The mean temperature of the month was below the normal in all districts with the exception of Ireland north and south and the English Channel. The departure from the normal ranged from +1.5a in Ireland south to -1.7a in England east.

Precipitation.—Precipitation was generally deficient in all districts with the exception of Ireland south, and added yet another month to the series of consecutive months since January with a deficiency in south-eastern England. There was an excess, however, along the coasts of Durham and Northumberland, in a narrow strip from Cheshire to Worcestershire, in a region near Sidmouth, over the eastern half of Ireland, and the extreme west of South Wales. The areas with a deficiency were much more extensive. In the north-west of Scotland less than half the normal fall was recorded. In England there was less than 60 per cent. locally along the south-east coast. Seathwaite in Cumberland recorded only 42 per cent. of the normal. Less than 25mm. fell locally in the neighbourhood of the Wash and the Moray Firth. The general rainfall for November expressed as a percentage of the average was:—England and Wales 75; Scotland 55; Ireland 106; British Isles 75.

Sunshine.—Insolation varied considerably in different districts, and was largely affected by the prevalence of fog, particularly in the vicinity of large towns. This is well illustrated by reference to the sunshine map. The most striking example is in the London area where there is a remarkably steep gradient on the south-eastern side. The departure of the daily mean duration of sunshine from the normal ranged from +0.40 hrs. per day in England north-west to -0.78 hrs. per day in Ireland south.

Optical Phenomena.—Solar and lunar halos were observed at various stations during the month. A lunar corona was seen at Dublin on the 8th. On the 14th a parhelion, sun pillar, paraselena and lunar corona were seen at Oxford. A sun pillar was also seen at Aberdeen on the 9th. Aurora was observed in Scotland, at Fort William on the 6th, Gordon Castle on the 25th and Paisley on the 6th, 7th and 8th.

The article by Mr. R. A. WATSON in the *Meteorological Magazine* for DECEMBER has been utilised in the preparation of this summary.

TABLE I.—DISTRICT VALUES—NOVEMBER, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Deviation from Average.	At 4 ft.	Deviation from Average.	Total.	Deviation from Normal.	Number of Days.	Daily Mean.	Deviation from Normal.	Per cent.	I.	II.	III.	Highest.	Date.	Lowest.	Date.	
			Daily Max.	Daily Min.	Daily Mean	Deviation from Normal.																		
0. SCOTLAND, NORTH ...	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.		
	64	18	200+	200+	200+	- 0.6	78.3	—	200+	—	2.37	60	- 83	15	1.33	+0.11	17	7.8	7.7	6.9	1032	19	982	5
Eastern.																								
1. SCOTLAND, EAST ...	57	10	79.7	74.0	76.9	- 1.2	78.6	—	81.5	+0.7	1.86	47	- 32	15	1.96	+0.23	24	7.1	6.3	6.4	1031	8	990	4.5
2. ENGLAND, N.E. ...	60	15	80.2	75.0	77.6	- 1.6	78.7	- 0.3	82.4	+0.6	2.01	51	- 8	14	2.22	+0.35	26	6.9	7.3	5.9	1036	10	987	6
3. ENGLAND, EAST ...	59	19	80.4	74.9	77.7	- 1.7	79.0	- 0.7	83.4	+0.4	1.83	46	- 13	11	2.33	+0.21	27	7.0	6.2	5.8	1038	10	986	6
4. MIDLAND COUNTIES ...	62	12	80.3	74.3	77.3	- 1.6	79.1	- 0.6	82.9	+0.4	1.89	48	- 16	13	1.69	- 0.10	19	7.5	7.3	6.7	1036	10	994	6
5. ENGLAND, S.E. ...	63	14	81.4	75.9	78.7	- 1.5	79.9	- 0.4	83.9	+0.6	1.90	48	- 30	11	2.51	+0.36	28	6.8	7.1	6.9	1037	10	990	6
Western.																								
6. SCOTLAND, WEST ...	59	16	81.2	75.7	78.4	- 0.8	79.3	—	82.7	+0.9	3.53	90	- 41	13	—	—	—	7.4	7.7	7.5	1033	8.9	995	6
7. ENGLAND, N.W. ...	61	11	81.2	75.8	78.5	- 1.2	79.4	+0.4	82.7	+0.7	2.27	58	- 35	14	2.13	+0.40	25	6.9	7.7	6.5	1032	9	991	6
8. ENGLAND, S.W. ...	67	11	82.9	77.8	80.4	- 0.2	81.9	+0.8	84.9	+1.0	3.28	83	- 24	17	1.87	- 0.27	21	7.4	7.6	7.2	1035	10	999	16
9. IRELAND, NORTH ...	61	25	83.1	77.8	80.4	+0.7	81.5	+1.5	83.7	+0.9	3.58	91	- 7	18	1.63	- 0.32	19	7.5	7.4	7.3	1031	8	995	5
10. IRELAND, SOUTH ...	65	21	84.4	79.5	81.9	+1.5	83.0	+1.3	83.9	+1.1	4.24	108	+ 6	21	1.43	- 0.78	16	7.9	8.3	7.5	1033	8	990	30
11. ENGLISH CHANNEL ...	62	30	84.6	80.9	82.8	+0.2	82.7	+0.2	85.7	+0.8	2.98	76	- 25	14	2.30	- 0.13	25	7.6	7.5	6.0	1034	9	998	30
Mean: DISTRICTS 1-10..	67	10	81.5	76.1	78.8	- 0.8	80.0	+0.3	83.2	+0.7	2.64	67	- 20	15	1.97	+0.01	23	7.2	7.3	6.8	1038	10	986	6
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—NOVEMBER, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††										Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.		2 to 5 m/s.		Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.			Direction and Speed.	Mid Time.	Speed.	Date.		
0. SCOTLAND, N.	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		hr.	°	m/s.	day.	hr.	m/s.	d. h. m.
Deerness (Cup Anr.) ...	188	16	5	1	4	18	195	339	153	29	0	300	19	1	4	—	—	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	—	0	56	413	231	20	130	8	16	19	19	5	8	20
Aberdeen (Cup Anr.) ...	120	72	12	—	0	4	19	165	438	98	0	310	14	5	9	—	—	—	—
Balmakewan ...	140	25	18	—	0	—	0	102	286	325	7	320	11	5	8	20	5	9	35
Rosyth ...	85	73	19	—	0	1	1	156	336	227	0	?	13	1	1	20	1	1	0
Edinburgh ...	485	39	31	—	0	3	6	135	259	320	0	180	15	10	21	22	10	21	5
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	—	0	3	15	110	353	237	5	290	13	4	14	21	1	2	20
Paisley ...	188	81	15	—	0	—	0	61	405	153	101	170	9	22	24	19	10	23	25
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	0	1	2	133	416	146	23	140	12	16	21	20	6	14	50
South Shields ...	72	61	12	—	0	7	37	207	397	79	0	160	15	16	21	22	1	2	10
Spurn Head ...	67	41	†	6	5	8	81	277	277	80	0	340	24	6	7	33	6	6	0
Cranwell ...	278	43	31	6	1	5	16	239	413	51	0	340	18	6	7	23	6	7	5
Howden ...	61	41	29	—	0	3	15	146	287	272	0	20	16	6	6	22	6	5	20
3. ENGLAND, E.																			
Gorleston ...	52	42	†	6	1	7	35	373	254	57	0	340	21	6	10	35	6	9	40
Felixstowe ...	58	40	23	6	3	2	14	250	399	54	0	290	20	6	8	29	6	8	10
Shoeburyness ...	103	90	†	—	0	2	9	187	411	111	2	280	17	6	8	27	6	8	20
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	1	4	120	371	225	0	290	13	6	5	24	6	4	55
5. ENGLAND, S.E.																			
Calshot ...	—	—	—	—	—	Out of Action.	—	—	—	—	—	—	—	—	—	—	—	—	—
Brighton ...	261	53	6	—	0	1	10	214	462	34	0	—	13	6	5	25	6	5	50
S. Farnboro' (Pye's Tr.) ...	443	152	†	6	1	4	19	243	349	85	23	290	18	6	7	27	6	6	50
Larkhill (S'y Plain) ...	550	43	†	—	0	7	26	431	255	7	1	290	17	6	6	22	6	4	40
Richmond (Kew Obs.) ...	82	65	22	—	0	—	0	54	441	225	0	310	10	6	9	22	6	8	5
Isle of Grain ...	65	45	30	6	3	4	21	128	177	246	145	280	20	6	8	27	6	8	5
7. ENGLAND, N.W.																			
Fleetwood (Cup Anr.) ...	109	44	—	4, 5, 6	16	7	35	268	368	33	0	290	20	5	5	—	—	—	—
Southport ...	80	62	48	1, 4	4	5	38	287	371	20	0	250	18	1	3	25	6	3	0
Holyhead ...	60	40	†	6	10	13	95	338	237	40	0	300	20	6	6	27	6	5	55
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	5, 6, 13 to 16, 26, 30	42	26	249	286	71	21	51	—	22	14	2	27	14	1	30
Plymouth ...	185	88	2	13, 14	12	7	38	285	327	58	0	—	20	14	7	26	14	13	50
Lyme Regis ...	556	61	†	—	0	4	18	178	463	30	31	—	13	16	6	18	14	7	55
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	5	1	21	81	392	209	37	0	270	17	5	24	—	—	—	—
Quilty ...	100	40	†	—	0	15	108	334	248	30	0	—	17	30	6	24	30	10	15
Cahiriveen (Val. Obs.) ...	98	41	†	—	0	13	92	323	213	81	11	140	15	30	1	29	29	23	10
Weaver Pt. ...	160	30	†	10, 13, 30	9	16	116	343	233	19	0	—	19	30	6	26	30	8	35
Baldonnell ...	321	42	31	—	0	10	51	238	251	180	0	190	14	13	11	22	10	0	55
11. ENGLISH CHANNEL.																			
Seilly (Cup Anr.) ...	150	19	—	5, 6, 13, 14, 26, 30	10	20	169	352	171	18	0	290	20	6	4	—	—	—	—

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]

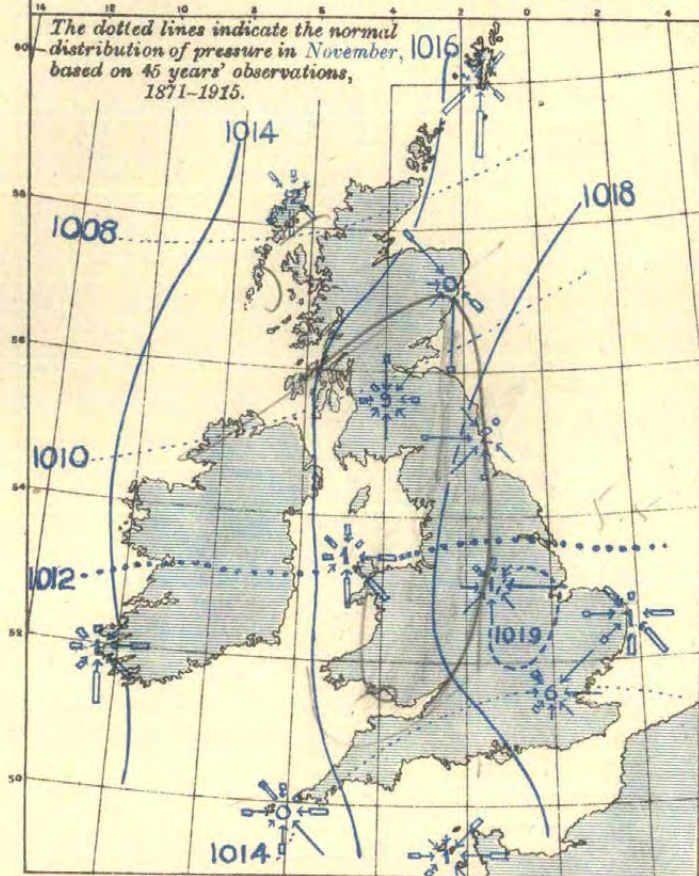
*Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

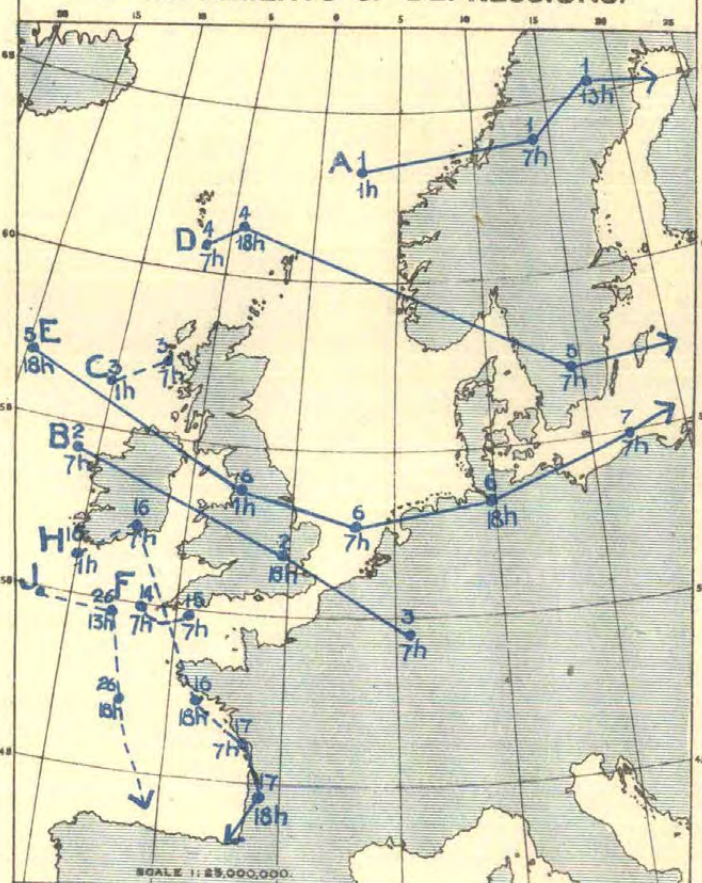
1. WIND AT 7 A.M. AND MEAN PRESSURE.

The dotted lines indicate the normal distribution of pressure in November, based on 45 years' observations, 1871-1915.



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

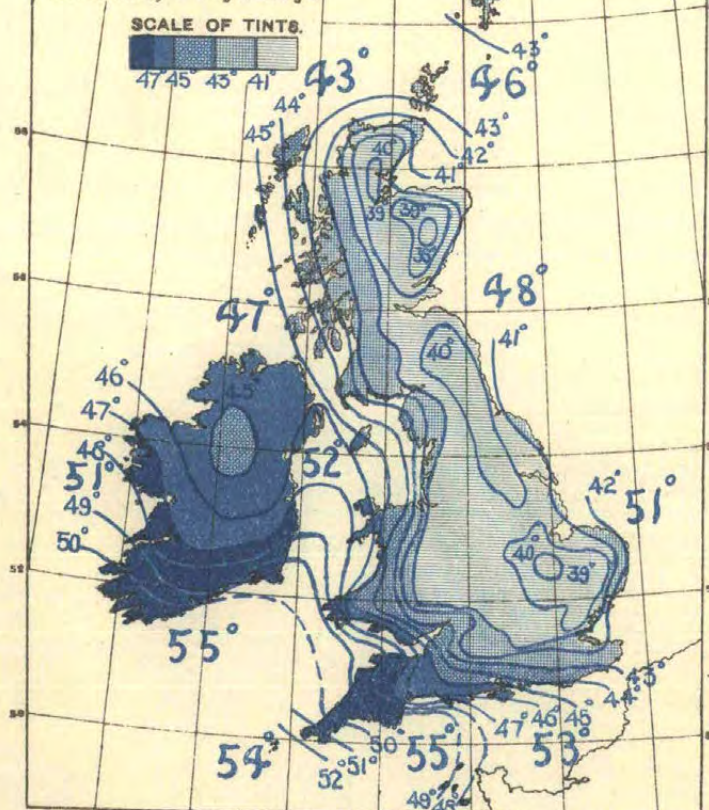
2. MOVEMENTS OF DEPRESSIONS.



Broken lines show tracks of secondary depressions

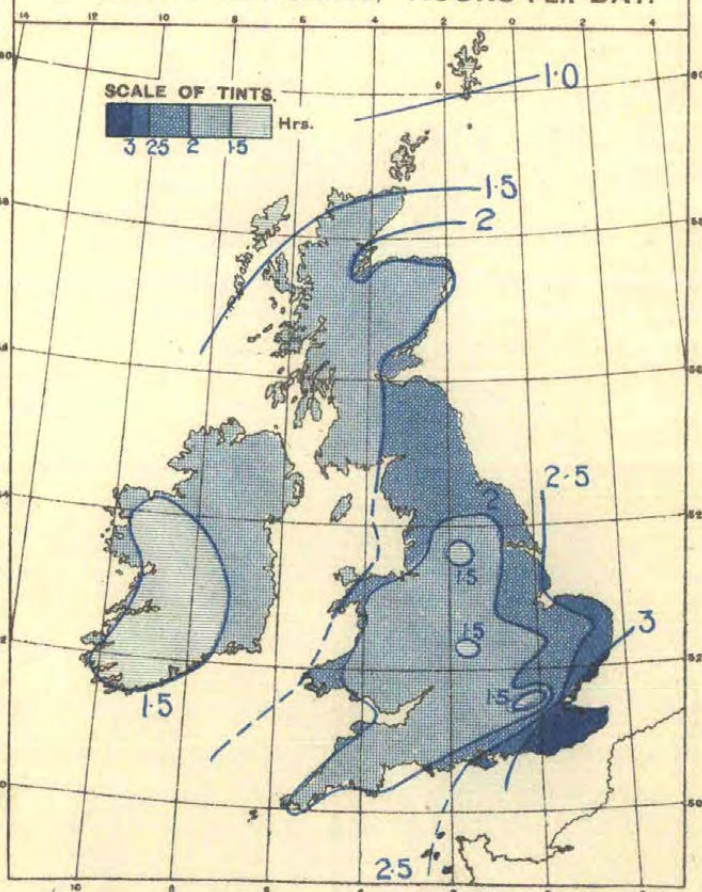
3. DISTRIBUTION OF MEAN TEMPERATURE.

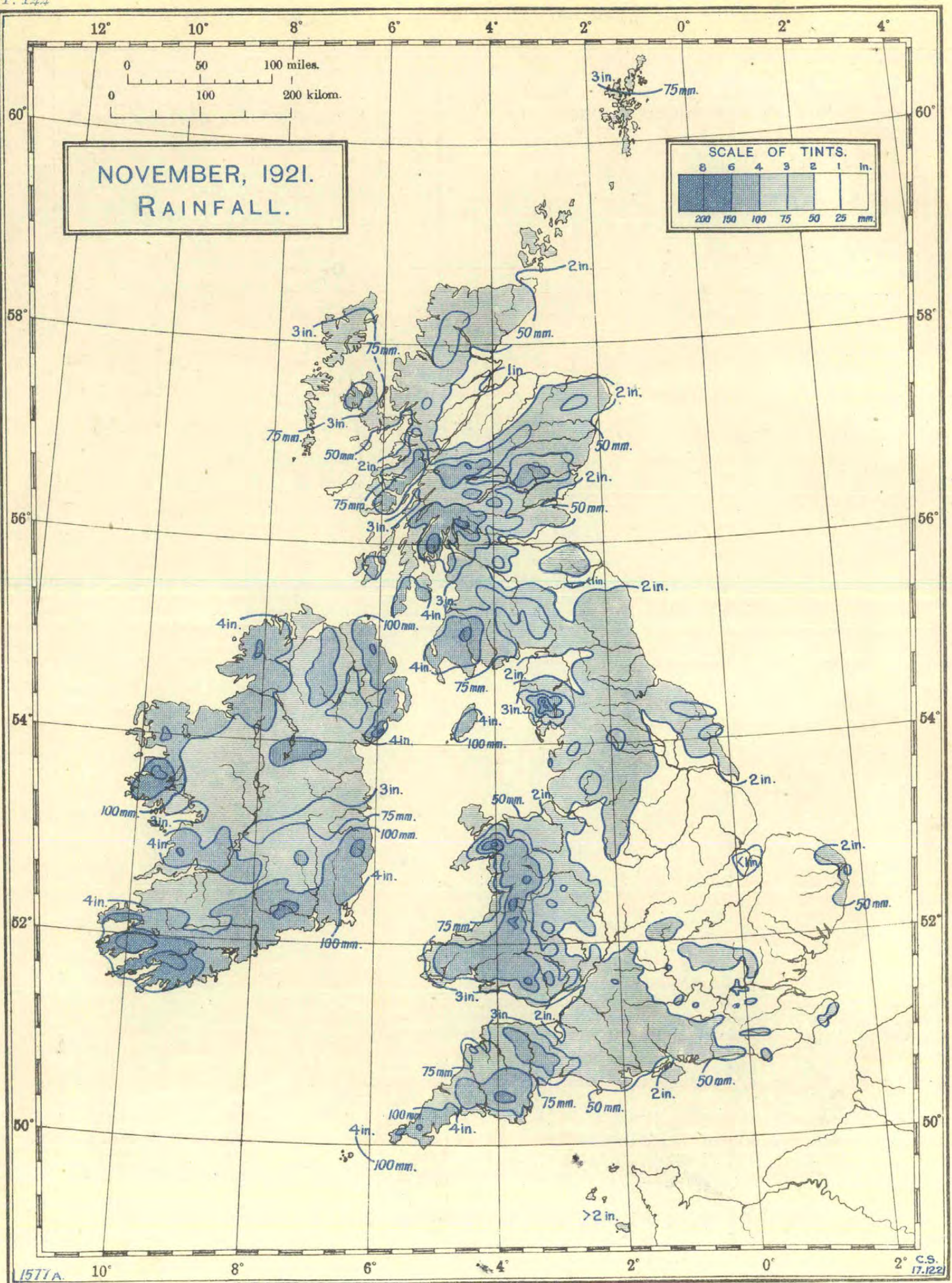
Reduced to sea level by a correction of 1° F. for 300 ft.



Sea temperatures are shown in large figures, thus: 46°

4. BRIGHT SUNSHINE, HOURS PER DAY.





Scale 1 : 5,000,000.

Pp. 3678/364, Wt. 37, D. 617/P. 147, 1200, 12/21

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation. 1 min. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
								Max.	Min.	Max.	Min.													Date.	Min.	Date.	1 ft.	4 ft.	Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
Max.	Min.	Rain.	ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					Means of		Deviation from Normal.		Absolute Maximum and Minimum.				Total Fall.				Deviation from Normal.		Most in a day.		Precipitation.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
									Maximum.	Date.	Minimum.	Date.																Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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Max.	Min.	Rain.	ft.	Ft.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.	mm.</

TABLE III. (continued)—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.						
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation. 1 min. or more.	Snow.	Snow lying.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.											
									Max.	Min.	Maximum.	Date.													Minimum.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.							
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	1 ft.	4 ft.	in.	mm.	mm.	mm.	12th	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	hr.	hr.	%	
MIDLAND COUNTIES—cont.					ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.	mm.																	
Stafford.	Cheadle	9 9	9 64.6	43.4	33.8	38.6	—3.2	57	4th	23	11th	—	—	2.32	59	—15	18	12th	12	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Mayfield	9 9	9 37.4	44.3	32.9	38.6	—	59	4th	17	11th	—	—	1.85	47	—	18	2nd	11	5	1	0	0	—	—	—	—	—	—	—	—	—	—	—	21	
Shropshire.	Roden, Well'n	9 9	9 207	44.9	31.7	38.3	—	60	4th	14	9th	—	—	2.26	57	—	12	2, 7	15	10	1	5	0	0	—	—	—	—	—	—	—	—	—	—	—	
	Wistanstow	21 21	9 48.1	45.3	33.5	39.4	—3.6	61	4th	12	9th	—	—	2.30	59	—15	13	7th	16	9	3	5	1	0	—	—	—	—	—	—	—	—	—	—		
Worcester.	Malvern	17—9	9 37.7	45.1	36.9	41.0	—	59	3rd	22	13th	44.4	50.5	1.92	48	—	11	5th	15	10	1	1	0	0	—	—	—	—	—	—	—	—	—	22		
	Sparkhill	7 13	7 42.4	45.5	34.8	40.2	—	59	4th	20	11th	—	—	2.06	52	—	19	2nd	16	8	2	3	1	0	—	—	—	—	—	—	—	—	—	—		
	Tenbury	21 21	9 31.3	46.2	32.9	39.6	—3.4	62	4th	13	9, 11	43.4	—	2.13	54	0	8	16th	17	11	3	6	2	0	—	—	—	—	—	—	—	—	—	—		
Hereford.	Bromyard	9 9	9 39.2	45.7	32.8	39.3	—	59	3, 4, 16	14	9th	42.7	49.8	2.08	53	—	11	5th	16	9	1	4	0	0	—	—	—	—	—	—	—	—	—	—		
	Hereford	9 9	9 29.1	45.3	33.1	39.2	—3.9	59	3rd	16	13th	—	—	1.65	42	—19	11	30th	12	8	1	4	0	0	—	—	—	—	—	—	—	—	—	—		
	Ross	18—7	7 22.3	46.3	37.0	41.7	—1.9	61	3, 4	17	9th	43.1	50.4	2.24	57	—7	11	30th	15	14	2	3	1	0	10	9	1	1.88	—	—	—	—	—	21		
Gloucester.	Cheltenham	9 9	9 21.4	46.9	35.8	41.4	—2.0	60	3rd	22	9th	—	—	2.06	52	—10	8	16, 30	13	11	2	0	1	0	—	—	—	—	—	—	—	—	—	21		
	Overcourt	9 9	9 1.7	48.9	36.9	42.9	—	60	3rd	20	13th	—	—	2.06	52	—	18	5th	14	12	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Clifton	9 9	9 22.5	48.1	36.8	42.5	—2.2	59	4th	25	11, 13	—	—	2.14	54	—26	10	30th	15	12	1	1	0	0	—	—	—	—	—	—	—	—	—	—	18	
5. ENGLAND, S.E.																																				
London.	g Camden Square	9 9	9 110	44.9	34.2	39.5	—4.8	58	4th	24	11th	43.2	50.7	2.01	51	—9	13	2nd	10	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	East Ham	9 9	9 15	44.7	33.0	38.9	—	58	1, 4	24	28th	—	—	1.89	48	—	12	2nd	10	7	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	Enfield	9 9	9 14.8	44.8	32.9	38.9	—	57	1, 4	22	10th	—	—	1.58	47	—	11	2nd	11	7	1	0	0	0	—	—	—	—	—	—	—	—	—	—	19	
	g Greenwich	9 9	9 14.9	45.3	34.6	39.9	—4.1	58	4th	25	13th	45.8	50.7	1.98	50	—8	13	2nd	11	7	2	0	0	0	—	—	—	—	—	—	—	—	—	—	20	
	Hampst'd Res.	21 21	9 45.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Richmond (Kew Obs.)	24 24	24 18	45.5	35.5	40.5	—3.5	58	1st	23	11th	41.9	51.3	1.70	43	—13	10	4th	8	7	1	0	0	0	—	—	—	—	—	—	—	—	—	—	14	
	Kensington Pal.	9 9	9 80	46.3	36.6	41.5	—	59	3rd	27	10, 13	44.8	52.1	2.08	53	—	11	2nd	10	7	0	0	0	0	—	—	—	—	—	—	—	—	—	—		
	Tottenham †	21 21	9 51	45.0	35.4	40.2	—	63	4th	25	10th	—	—	1.76	45	—	12	3rd	7	7	0	0	0	0	—	—	—	—	—	—	—	—	—	—	12	
	Westminster	9 9	9 27	46.4	36.8	41.6	—3.4	59	4th	26	13th	—	—	1.95	50	—4	12	2nd	9	8	0	0	0	0	—	—	—	—	—	—	—	—	—	—	12	
Kent.	Belvedere	9 9	9 14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Bexley Heath	21 21	7 16.1	45.0	34.6	39.8	—	57	1, 4	24	28th	44.5	51.6	1.76	45	—	13	2nd	12	7	1	0	0	0	—	—	—	—	—	—	—	—	—	—		
	Biggin Hill	18—7	7 600	44.4	35.5	40.0	—	56	1, 3, 4	25	26th	—	—	1.90	48	—	11	4th	11	8	3	0	1	0	9	—	—	—	—	—	—	—	—	—	35	
	Canterbury	9 9	9 40	44.7	34.7	39.7	—	59	1st	23	28th	42.9	52.9	1.64	42	—	14	2nd	10	10	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Deal	17—9	9 18	46.5	38.2	42.4	—	58	1st	26	28th	44.8	51.1	2.21	56	—	18	4th	8	8	1	0	1	1	—	—	—	—	—	—	—	—	—	—	38	
	Dungeness	18—7	7 21	47.4	39.9	43.7	—2.0	60	1st	28	8th	—	—	1.68	43	—27	11	2nd	8	8	1	0	0	0	2	—	—	—	—	—	—	—	—	—		
	Folkestone	17—9	9 10.1	47.8	37.1	42.5	—	59	1, 3	29	8, 30	—	—	2.36	60	—	14	2nd	7	7	1	1	2	1	—	—	—	—	—	—	—	—	—	—		
	Isle of Grain	18—7	7 20	44.9	35.7	40.3	—	59	1st	21	27th	—	—	1.28	33	—	10	2nd	9	7	0	0	0	0	8	15	1	2.47	—	—	—	—	—	28		
	Lympne	18—7	7 350	45.0	36.7	40.9	—	58	1st	27	8, 12	—	—	50.6	2.17	55	—	14	2nd	9	8	3	1	0	1	4	14	1	3.51	—	—	—	—	—	39	
	Margate	17—9	9 51	45.8	39.1	42.5	—3.0	58	1, 4	30	30th	45.1	53.0	1.40	36	—25	17	2nd	7	7	0	0	1	1	—	—	—	—	—	—	—	—	—	—		
	Ramsgate	9 9	9 16.8	45.9	38.4	42.2	—	56	1, 4	30	13, 30	—	—	1.74	44	—	17	2nd	8	6	2	0	0	0	—	—	—	—	—	—	—	—	—	—		
	Sevenoaks	9 9	9 50.9	45.7	35.2	40.5	—	57	1st	25	26th	42.0	50.5	1.99	51	—32	10	4th	10	7	0	0	1	0	—	—	—	—	—	—	—	—	—	—	36	
	Tunbridge W.	17—9	9 35.4	46.6	35.5	41.1	—2.2	58	1st	24	13th	46.1	51.8	1.65	42	—45	15	4th	8	7	0	0	0	0	—	—	—	—	—	—	—	—	—	—	34	
Surrey.	Addington	9 9	9 47.2	45.1	33.1	39.1	—	58	1st	25	8, 26	—	—	2.04	52	—	10	4th	9	8	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Croydon	18—7	7 24.5	45.4	35.5	40.5	—																													

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.							BRIGHT SUNSHINE.					
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.				
					A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.										Daily Mean.	Deviation from Normal.	Per Cent.		
					Max.	Min.																									
7. ENGLAND, N.W.																															
Cumberland.	Aspatria (Mealsgate)†	21	21	9	48.7	45.9	35.7	40.8	+1.6	57	23rd	24	8th	43.8	48.9	1.84	47	-59	26	5th	11	7	0	0	0	0	10	0	2.60	+0.63	31
	Egremont	21	21	9	34.9	47.0	37.0	42.0	—	56	1, 23, 24	27	9, 26	43.2	48.4	3.37	86	—	21	5th	15	10	1	1	0	0	12	0	2.55	—	30
	Keswick	9	9	9	25.4	47.5	35.7	41.6	—	58	23, 24	23	7th	44.1	50.4	2.96	75	—	38	5th	14	9	1	1	0	0	13	0	2.24	—	27
	Newton Rigg	21	21	9	55.9	45.1	33.2	39.2	-1.5	57	1st	20	9th	—	—	1.99	51	-33	27	5th	13	10	1	0	1	0	16	0	2.54	+0.84	30
	Scaleby	9	9	9	11.1	46.3	34.0	40.2	-1.6	57	23rd	22	9th	—	—	2.07	53	-23	19	5th	14	11	0	0	0	0	—	—	—	—	—
Lancashire.	Blackpool	17	9	9	66	45.4	37.1	41.3	-2.5	56	4th	25	9th	46.2	51.3	3.11	79	-9	25	5th	16	10	1	0	0	0	11	0	2.25	+0.38	26
	Blundellsands	9	9	9	34	46.0	36.4	41.2	—	56	4th	26	8, 13	43.2	48.7	2.28	58	—	18	2nd	16	10	2	1	0	0	12	2	—	—	—
	Bolton	9	9	9	34.1	45.5	35.8	40.7	—	55	3, 4	26	9th	44.4	49.2	3.76	95	—	20	2nd	15	11	1	1	0	0	13	0	1.16	—	14
	Burnley	9	9	9	45.8	44.3	34.0	39.2	—	54	3, 4, 23	21	9th	42.6	49.6	2.01	51	—	20	5th	13	7	—	—	—	—	15	—	1.62	—	19
	Darwen	21	21	9	72.2	44.6	34.9	39.8	—	55	1, 24	26	8th	42.1	48.0	3.54	90	—	19	5th	15	11	0	0	0	0	12	0	2.32	—	27
	Hutton	9	9	9	82	45.7	34.5	40.1	—	56	24th	22	9th	43.4	49.8	2.54	64	—	20	5th	14	9	1	1	0	0	12	0	1.72	—	20
	Lancaster	9	9	9	31.1	46.7	36.3	41.5	—	56	23rd	26	8th	44.8	50.3	2.28	58	—	18	5th	13	10	0	0	0	0	11	0	2.71	—	32
	Leyland	9	9	9	12.4	45.9	34.3	40.1	—	58	24th	20	26th	—	—	2.46	62	—	18	2nd	17	9	1	1	0	0	13	0	2.19	—	26
	Morecambe	17	9	9	24	46.3	37.3	41.8	—	56	4, 23	24	9th	—	—	2.35	60	—	17	5th	13	11	—	—	—	—	—	—	2.50	—	29
	Southport	17	9	9	37	44.8	37.2	41.0	-2.7	55	4th	26	9, 11	41.9	48.4	2.61	66	-14	19	2nd	13	9	1	1	1	0	12	4	1.83	+0.03	21
Stonyhurst	9	9	9	37.5	45.3	35.6	40.5	-2.1	55	4th	25	9, 13	—	—	2.56	65	-50	25	5th	16	10	1	0	0	0	10	0	2.02	+0.45	24	
Liverpool.	Bidston	21	21	9	18.8	46.0	37.3	41.7	-2.7	59	1st	28	12th	—	—	2.01	51	-13	15	2nd	14	11	5	0	1	0	14	0	1.78	—	21
	Whitworth Pk.	21	21	9	12.5	47.0	36.7	41.9	-1.7	58	1st	25	9th	—	—	2.15	55	-12	17	2nd	14	7	0	0	0	0	—	—	1.57	+0.90	18
	Oldham Road	21	21	9	19.0	47.1	38.1	42.6	-1.6	58	1, 6	27	13th	42.6	50.8	2.13	54	-21	15	2nd	14	8	0	0	0	0	9	0	1.03	+0.50	12
	Alex. Park	18	7	7	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cheshire.	Hawarden B'ge	9	9	9	22	46.3	35.5	40.9	-3.9	60	4th	18	9th	—	—	2.56	65	+8	22	2nd	15	12	—	—	—	—	—	—	—	—	—
	Hoylake	9	9	9	30	46.2	35.4	40.8	-4.3	58	1st	24	9, 11	—	—	2.11	54	-16	15	2nd	15	10	—	—	—	—	—	1.53	-0.40	18	
	Macclesfield	9	9	9	50.0	45.2	33.8	39.5	-2.5	55	4, 23, 24	23	8, 9, 26	—	—	2.03	52	-23	15	2nd	11	9	—	—	—	—	—	—	—	—	—
7a and 8b WALES.																															
Flint.	Rhyl	17	9	9	30	47.4	37.5	42.5	-2.5	58	4th	24	9th	—	—	1.89	48	-13	15	2nd	14	10	0	0	1	0	7	2	1.91	-0.29	22
	Holyhead	18	7	7	15	50.3	43.0	46.7	+0.1	60	23rd	32	12th	—	—	2.09	53	-52	11	2nd	16	12	0	0	2	0	1	6	2	1.72	—	20
Anglesey.	Colwyn Bay	17	9	9	81	48.2	39.5	43.9	—	60	23rd	28	11th	—	—	2.30	58	—	15	2nd	11	11	—	—	—	—	—	2.24	—	26	
	Llandudno	17	9	9	22	49.5	39.3	44.4	-1.7	60	23rd	28	9th	—	—	2.39	61	-18	16	2nd	13	9	1	0	1	0	—	—	2.18	+0.11	25
Merioneth.	Aberdovey	9	9	9	60	50.8	40.8	45.8	-0.7	61	4, 23	32	9th	—	—	2.33	59	—	11	2nd	14	13	0	0	2	0	—	—	2.01	-0.26	23
	Welshpool	9	9	9	26.2	47.6	30.8	39.2	—	60	3, 5	11	9, 10	—	—	3.03	77	—	18	17th	14	10	2	6	0	0	—	—	—	—	—
Montgomery.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Cardigan.	Aberystwyth	17	9	9	16	49.7	40.8	45.3	—	59	23rd	26	12th	—	—	2.01	51	—	13	2nd	18	8	0	0	1	0	—	—	2.37	+0.17	27
	Haverfordwest	21	21	9	25.0	50.4	39.9	45.2	—	59	2, 3	23	12th	—	—	5.02	128	0	38	14th	14	12	0	0	1	0	—	—	2.05	-0.25	23
	St. Ann's Hd.	18	7	7	14.9	51.0	45.5	48.3	+0.8	60	4th	34	12th	—	—	2.89	73	-24	16	14th	19	12	0	0	2	0	2	—	2.09	-0.08	24
	Tenby	9	9	9	64	51.3	41.5	46.4	—	61	4th	25	12th	—	—	3.71	94	—	21	13th	17	13	0	0	0	0	—	—	2.26	-0.11	26
Brecknock.	Gwernyd Pk.	9	9	9	37.4	46.3	32.8	39.6	-2.9	60	3, 4	15	13th	—	—	2.54	65	-13	12	5th	17	14	2	5	1	0	—	—	—	—	—
	Rhayader	9	9	9	75.7	45.0	33.6	39.3	—	59	4th	11	13th	—	—	3.81	97	—	21	5th	21	16	1	3	0	0	12	0	1.23	—	14
Radnor.	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Glamorgan.	Cardiff	21	21	9	20.2	47.9	37.6	42.8	-0.9	61	4th	26	9, 13	45.8	52.0	3.03	77	-26	12	30th	15	13	1	1	0	0	7	0	1.68	—	19
	Swansea	9	9	9	25	51.5	41.7	46.6	—	63	3, 4	30	12th	48.2	55.0	3.57	91	—	16	13th	18										

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.			AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
								Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
											Max.	Min.	Max.	Date.					Minimum.	Date.									Amount.	Date.	Precipitation.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	Max.	Date.	Minimum.	Date.	1 ft.	4 ft.	in.	mm.	mm.	mm.	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th	11th	12th	13th	14th	15th	16th	17th	18th	19th	20th	21st	22nd	23rd	24th	25th	26th	27th	28th	29th	30th	31st	32nd	33rd	34th	35th	36th	37th	38th	39th	40th	41st	42nd	43rd	44th	45th	46th	47th	48th	49th	50th	51st	52nd	53rd	54th	55th	56th	57th	58th	59th	60th	61st	62nd	63rd	64th	65th	66th	67th	68th	69th	70th	71st	72nd	73rd	74th	75th	76th	77th	78th	79th	80th	81st	82nd	83rd	84th	85th	86th	87th	88th	89th	90th	91st	92nd	93rd	94th	95th	96th	97th	98th	99th	100th																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
9. IRELAND, N.				ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.

TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
NOVEMBER, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	3.36	+1.16	38
Hove ..	3.15	—	35
Watergate ..	2.64	—	30
LONDON, Bunhill Row	0.74	—0.03	8
Regent's Park	0.90	—	10
Plumstead ..	1.49	—	17

TABLE III. (b).—RIVER TEMPERATURE.

DISTRICT AND STATION.	Temperature.				Deviation from Normal.
	Highest.	Lowest.	Mean.	...	
Belper (R. Derwent) 9 h.	50	38	44.2	—	—0.6

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.	No. of days of	Number of Observations adjusted to a total of 90 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
								Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.					Clear Sky.	Overcast.	Force (0-12).			Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
								I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.			III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
0. SCOTLAND, N.				ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
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							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.				Clear Sky.	Overcast.	Force (0-12).				Direction.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.				I.	II.	III.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
3. ENGLAND, E.			ft.	mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		

TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10).			WIND.														
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of		Number of Observations adjusted to a total of 90 for the month.												
							Dry Bulb.			Depression of Wet.			Vapour Pressure.			Humidity.																				
							I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	I.	II.	III.	Clear Sky.	Overcast.	8 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.		
							°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%	I.	II.	III.	I.	II.	III.	I.	II.	III.	3 or more.	4-7.	Calm.	N.	N.E.	E.	S.E.	S.	S.W.	W.	N.W.
7. ENGLAND, N.W.				mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																		
Cumberland.	Aspatria (Mealsgate) H	9,-,21	485	999.3	—	17.4	—	—	—	—	—	—	—	—	—	—	—	—	5.9	—	7.1	4	14	0	9	14	7	4	17	18	17	1	11	1		
Lancashire.	Blackpool H	9,-,-	73	015.3	—	17.7	41.4	—	—	1.7	—	—	7.8	—	—	87	—	—	6.8	—	—	—	—	0	24	0	1	6	14	57	3	0	1	8		
	Darwen H	9,-,21	730	991.0	—	18.2	40.1	—	39.4	2.6	—	2.0	6.8	—	6.9	79	—	81	7.7	—	6.8	0	11	0	12	0	1	0	12	29	30	3	4	11		
	Leyland ...	9,15,-	—	—	—	—	39.8	43.3	—	1.7	2.9	—	7.1	7.4	—	87	78	—	7.6	7.7	—	2	19	0	27	0	8	24	21	24	1	0	3	9		
	Southport H	9,15,21	42	016.3	—	17.8	39.5	43.5	—	1.5	2.7	—	7.4	7.9	7.5	88	81	87	7.8	7.4	6.9	2	16	1	45	7	6	5	16	37	8	1	4	6		
	Stonyhurst ...	9,-,21	363	004.8	—	18.6	40.2	—	39.3	1.8	—	2.0	6.9	—	7.2	84	—	86	7.3	—	7.0	3	16	0	9	5	11	27	18	8	4	4	9	4		
Liverpool.	Bidston ...	9,-,21	202	010.2	+5.0	17.5	39.8	—	41.3	1.8	—	2.4	7.1	—	7.1	86	—	81	7.7	—	7.7	1	14	0	27	6	5	1	21	44	3	1	4	5		
Manchester.	Whitworth PkH	9,-,21	127	013.4	—	17.9	41.4	—	41.9	2.0	—	2.0	7.4	—	7.6	83	—	84	5.2	—	5.7	8	10	0	42	21	1	4	18	21	11	2	6	6		
	Oldham Rd. H	9,-,21	195	011.4	—	18.5	41.4	—	42.1	2.2	—	2.2	7.4	—	7.6	82	—	83	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Alex. Park ...	7,13,18	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Anglesey.	Holyhead ...	7,13,21	25	015.2	+4.2	16.1	45.8	49.2	46.6	1.8	2.5	1.6	9.0	9.8	9.5	87	83	89	7.5	7.9	5.9	3	13	2	59	3	7	5	19	19	21	3	8	5		
Carnarvon.	Llandudno ...	9,-,21	21	016.6	—	17.0	43.9	—	43.8	2.7	—	2.5	7.7	—	7.9	80	—	80	5.8	—	5.0	6	9	0	8	3	4	3	23	7	21	6	14	9		
8. ENGLAND, S.W.																																				
Pembroke.	St. Ann's Head	7,13,21	150	010.6	+3.9	16.5	47.5	49.1	47.8	1.0	1.8	1.5	10.3	10.3	10.0	93	87	89	7.9	7.2	7.2	3	16	5	53	2	5	11	25	17	10	7	8	5		
Glamorgan.	Cardiff ...	9,-,21	216	009.9	—	17.7	42.7	—	42.1	1.7	—	1.9	8.0	—	7.7	86	—	85	—	—	—	—	—	0	12	2	4	19	27	15	4	2	2	15		
Somerset.	Bath ...	9,-,-	84	014.6	+3.8	17.6	41.6	—	—	1.4	—	—	7.9	—	—	88	—	—	6.7	—	—	—	—	—	0	5	15	3	15	21	15	5	1	6	9	
Dorset.	Holton Heath	9,15,-	58	015.3	—	17.6	44.3	48.1	—	2.0	3.5	—	8.7	9.2	—	84	79	—	7.5	8.0	—	3	19	2	30	5	10	16	23	12	7	7	5	5		
	Portland Bill	7,13,21	37	015.8	+3.1	17.2	48.3	50.7	48.1	2.0	2.1	2.0	9.8	10.7	9.7	86	86	86	7.6	7.1	7.6	0	15	7	72	0	4	20	18	19	8	3	8	10		
Devon.	Cullompton ...	9,-,-	—	—	—	—	44.5	—	—	1.4	—	—	8.8	—	—	89	—	—	7.9	—	—	—	—	—	0	9	0	15	6	24	15	9	3	12	6	
	Killerton ...	9,15,-	—	—	—	—	45.2	50.8	—	2.2	2.4	—	8.5	10.5	—	84	84	—	6.6	6.1	—	2	6	—	—	—	—	—	—	—	—	—	—	—		
	Plymouth ...	9,15,21	116	011.8	—	16.1	49.8	51.0	49.0	2.7	3.4	2.3	9.8	9.8	9.8	81	78	83	7.2	7.9	7.1	1	16	2	27	4	7	14	17	19	7	6	7	9		
	(The Hoe)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	(Cattewater)	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Princetown ...	7,13,21	47	015.7	—	16.6	47.3	51.5	48.8	1.9	3.3	2.2	9.5	10.1	9.9	87	78	84	7.6	7.9	6.6	0	12	1	28	4	6	13	23	14	8	5	10	7		
	Sheepstor H	9,15,21	730	989.3	—	16.3	45.7	48.5	44.3	1.1	2.2	0.9	10.0	10.1	9.6	91	85	93	6.8	7.2	6.3	2	13	5	45	3	3	17	6	31	6	3	8	13		
Cornwall.	Falmouth H	7,13,18	183	009.1	+1.7	16.0	48.1	52.1	50.2	1.8	3.0	2.2	9.8	10.6	10.4	87	80	85	7.4	8.3	8.1	0	15	0	56	1	10	11	13	17	12	6	10	10		
	Newquay ...	9,-,18	161	009.7	—	15.5	49.1	—	49.4	1.8	—	1.8	10.3	—	10.4	87	—	88	7.7	—	7.7	2	16	3	36	6	3	6	7	35	14	4	11	4		
	Redruth H	9,15,-	397	—	—	—	48.3	49.2	—	1.6	2.0	—	10.1	10.2	—	89	86	—	8.4	8.2	—	1	21	5	47	3	4	7	21	18	11	9	11	6		
9. IRELAND, N.																																				
Sligo.	Markree Castle	9,-,21	127	010.6	—	15.1	43.6	—	44.6	1.0	—	1.1	8.8	—	9.1	92	—	92	7.9	—	8.0	0	16	0	20	27	0	0	6	30	14	1	1	11		
Mayo.	Blacksod Point	7,13,21	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Donegal.	Malin Head ...	7,13,21	230	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Down.	Donaghadee ...	7,13,21	26	015.1	+4.9	16.1	45.9	47.9	46.1	2.0	2.7	1.9	9.0	9.1	9.1	86	81	86	7.7	7.4	6.1	0	13	0	22	4	5	2	10	21	18	15	9	6		
Armagh.	Armagh H	9,-,21	209	007.7	—	15.2	44.0	—	44.1	1.4	—	1.4	8.9	—	9.0	90	—	90	6.9	—	7.8	1	15	0	18	26	1	4	14	11	21	4	5	4		
10. IRELAND, S.																																				
Dublin.	Baldonnell ...	7,13,21	282	005.2	—	15.8	44.7	48.3	44.6	1.8	3.1	1.7	8.7	9.0	8.7	87	78	87	8.2	8.7	7.6	2	21	1	42	12	3	4	14	13	17	14	10	3		
	City ... H	9,-,21	53	013.6	—	15.4	46.1	—	46.1	2.0	—	1.6	9.2	—	9.5	86	—	88	7.6	—	6.8	4	16	0	8	6	1	1	15	14	23	6	18	6		
	Glasnevin H	9,-,21	56	014.0	—	15.9	46.6	—	45.8	2.3	—	1.7	9.2	—	9.5	84	—	88	7.8	—	7.7	0	14	0	24	3	1	4	3	29	9	15	11	5		
	Phoenix Pk. H	9,-,21	159	009.8	—	15.5	47.0	—	45.2	2.0	—	1.2	9.6	—	9.6	87	—	91	8.0	—	6.8	2	13	2	26	18	8	1	4	11	9	29	6	4		
	Trin. Coll. H	9,-,21	17	015.2	—	15.6	47.9	—	47.4	2.1	—	1.9	9.8	—	9.7	85	—	86	7.8	—	6.9	4	18	0	17	41	0	0	9	20	4	10	6	0		
	Ranelagh ...	9,-,21	74	012.8	—	15.4	46.5	—	45.8	2.0	—	1.8	9.1	—	9.0	86	—	87	7.8	—	7.4	2	17	0	32	15	1	6	12	26	4	6	14	6		
King's Co.	Birr Castle ...	7,13,18	173	008.0	+2.4	14.7	44.1	49.4	46.8	0.8	1.5	0.9	9.1	10.7	10.1	93	90	93	7.1	7.8	7.5	1	16	0	7	3	2	4	13	27	14	8	12	7		
	Seskin, Carrick-on-Suir.	9,-,21	522	995.9	—	15.0	45.5	—	46.0	0.8	—																									

TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, NOVEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.	Total		Percentage of Normal.	DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.	Total		Percentage of Normal.	DISTRICT, COUNTY AND PLACE.		Height of Station above Mean Sea Level.	Total		Percentage of Normal.				
			ft.	in.	mm.	%				ft.	in.	mm.	%				ft.	in.	mm.	%	
O. SCOTLAND, N.						2. ENGLAND, N.E.—cont.						8a. SOUTH WALES.									
Cath.	Thurso (Buckies)	240	2.61	66	—	Yk.,	Holme-upon-Spalding-Moor	35	1.86	47	—	Rad.	B'm'gham W.W. (Tyrrmynydd)	832	5.10	129	77				
Suth.	Dornoch (St. Gilbert's)	35	1.46	37	—	E.R.	Lowthorpe (The Elms)	63	2.89	73	108	Card.	Aberystwyth (Gogerddan)	83	2.80	71	51				
	Loch More (Achfary)	167	2.87	73	34	Line.	Boston (Black Sluice)	11	1.30	33	65		Devil's Bridge	825	4.24	108					
	Melvich Schoolhouse	—	2.28	58	57		Grantham (Saltersford)	188	1.30	33	—		Lampeter (Falcondale)	498	3.86	98					
	Tongue Manse	180	2.14	54	47		Horncastle	110	1.56	40	—		Tregaron (Maes-y-bettws)	910	4.80	122					
R. & C.	Alness (Ardross Castle)	450	1.62	41	40		Louth (Westgate)	120	1.69	43	66	Carm.	Cardmarthen (The Friary)	62	4.66	118					
	Loch Carron (Plockton)	4	1.71	43	—								Llanddeusant (Ponterynfe)	323	4.32	110					
	Loch Torridon (Bendamph)	20	2.79	71	30								Cardiff, W.W. (Beacons Res.)	1340	4.97	126					
Inv.	Arisaig (Faire-na-Sguir)	130	1.75	44	—		3. ENGLAND, E.							Crickhowell (Tal-y-maes)	1250	3.50	89				
	Cluny Castle	900	1.82	46	—	Norfol.	Aylsham (Rippon Hall)	90	2.09	53	—			Port Talbot (Twyn-yr-hydd)	180	3.22	82				
	Loch Arkaig (Achnacarry)	120	2.19	56	—		Swaffham	250	1.41	36	58			Treherbert (Tyn-y-waun)	801	6.91	175				
	Loch Quoich (Glenquoich)	569	2.60	66	21		Thetford (Waterworks)	170	1.46	37	—										
	" (Loan)	650	3.90	99	—		Halesworth Rectory	50	2.05	52	—										
	N. Ballachulish (Alltshellach)	80	3.47	88	—		Hawkedon Rectory	305	1.55	39	68										
	Skye (Dunvegan)	47	5.23	133	—		Chatteris (The Priory)	45	1.26	32	—	Mon.	Llanfrechfa Grange	326	2.12	54	49				
	" (Portree)	65	2.77	70	—		Ashwell (Odsey)	250	1.53	39	—		Newport W.W. (Newchurch)	550	3.44	87					
							Norw. Drive (Clows Cross)	13	0.87	22	—	Som.	Brushford Rectory	450	4.04	103					
							Essex.	Elsenham (Gaunts End)	363	1.87	47			Crewkerne (Merefield House)	231	3.05	77				
								Lexden (Hill House)	90	1.37	35	—		Cutcombe (Wheddon Cross)	945	3.28	83				
													Hartland Abbey	222	4.04	103					
													Launceston (Polapit Tamar)	315	3.67	93	87				
													Penzance (Trengwainton Ho.)	400	6.04	153					
													St. Austell (Trevarna)	300	5.55	141	113				

TABLE I.—DISTRICT VALUES—DECEMBER, 1921. [1908.]

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount. (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Normal.	Number of Days.	Daily Mean.	Devia- tion from Normal.	Per cent.	I.	II.	III.	High- est	Date.	Low- est	Date.	
			Daily Max.	Daily Min.	Daily Mean	Devia- tion from Normal.																		
	°F.	°F.	a. 200+	a. 200+	a. 200+	a. a.	a. 200+	a. a.	a. 200+	a. a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		
0. SCOTLAND, NORTH ...	56	24	81.0	76.0	78.5	+1.6	77.8	—	—	—	9.69	246	+89	27	0.41	0.20	6	7.8	8.2	7.8	1028	2	959	20
Eastern.																								
1. SCOTLAND, EAST ...	59	22	81.3	75.6	78.5	+2.2	77.8	—	79.8	—	3.15	80	+1	21	1.34	+0.30	20	6.9	6.5	6.7	1028	13	979	30
2. ENGLAND, N.E. ...	59	20	82.2	76.7	79.4	+2.2	78.5	+1.4	80.5	+0.8	1.61	41	-17	18	1.59	+0.39	22	0.5	7.3	6.1	1029	13, 14	987	30
3. ENGLAND, EAST ...	59	23	81.9	76.3	79.2	+2.0	78.6	+0.4	81.1	+0.3	1.55	39	-19	17	1.32	-0.01	17	8.2	7.5	6.6	1030	12	996	30, 31
4. MIDLAND COUNTIES ...	60	18	82.2	76.3	79.2	+2.2	78.8	+0.9	80.9	+0.6	2.05	52	-18	17	1.23	+0.07	16	7.6	7.6	7.0	1031	13	994	28
5. ENGLAND, S.E. ...	59	21	82.3	77.0	79.7	+1.5	79.5	+0.6	81.7	+0.4	1.83	46	-33	18	1.14	-0.30	14	8.2	7.9	6.9	1032	30	995	22
Western.																								
6. SCOTLAND, WEST ...	59	22	82.3	77.1	79.7	+1.9	78.9	—	80.9	+1.2	7.21	183	+40	26	—	—	—	8.1	8.1	8.1	1030	13	986	30
7. ENGLAND, N.W. ...	59	21	82.5	77.6	80.1	+2.2	79.1	+1.3	80.8	+0.8	4.34	110	+15	23	1.19	+0.15	16	8.1	7.8	7.8	1031	13	994	28
8. ENGLAND, S.W. ...	62	23	82.9	77.9	80.4	+1.4	80.9	+1.1	83.0	+1.0	2.59	66	-61	22	1.21	-0.21	15	7.7	7.7	6.9	1035	31	991	1
9. IRELAND, NORTH ...	60	29	82.9	78.6	80.8	+2.6	80.9	+2.4	82.4	+1.6	3.72	94	-9	25	0.95	-0.25	13	7.5	7.4	7.6	1030	13	983	19, 30
10. IRELAND, SOUTH ...	59	23	84.1	79.2	81.7	+2.5	82.1	+2.1	82.5	+1.7	2.87	73	-46	21	1.28	-0.19	17	7.3	8.1	6.7	1035	13	995	28
11. ENGLISH CHANNEL ...	57	36	84.3	80.9	82.6	+1.7	81.9	+0.9	83.7	+0.8	2.42	62	-47	24	1.01	-0.75	12	8.3	8.7	7.0	1035	31	992	1
Mean: DISTRICTS 1-10..	62	18	82.5	77.2	79.9	+2.1	79.5	+1.3	81.4	+0.9	3.09	78	-15	21	1.25	-0.01	17	7.6	7.6	7.0	1035	—	979	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.	hr.	hr.	%				mb.		mb.		

TABLE II.—SUMMARY of AUTOGRAPHIC RECORDS of WIND.—DECEMBER, 1921. [1914.]

DISTRICT AND STATION	Height.			Distribution of Wind.††										Extreme Velocities.					
	Above Mean Sea Level.	Above Ground.	Above Building.	More than 17 m/s. or 39 mi/hr.		11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.		2 to 5 m/s.		Less than 2 m/s.	No Record.	Highest Hourly Wind.		Highest Gust.			
				Dates of Occurrence.	Duration.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.			Direction and Speed.	Mid Time.	Speed.	Date.		
	ft.	ft.	ft.		hr.		hr.	hr.	hr.	hr.	hr.		hr.	m/s.	day.	hr.	m/s.	d.	h. m.
0. SCOTLAND, N.				16 to 18, 20															
Deerness (Cup Anr.) ...	188	16	5	28, 30	50	22	182	326	130	23	33			260	26	17	5	—	—
1. SCOTLAND, E.																			
Dyce ...	305	75	15*	—	0	—	0	65	569	110	0			340	10	30	21	26	17
Aberdeen (Cup Anr.) ...	120	72	12	—	0	6	25	203	449	61	0			310	15	6	24	—	4
Balmakewan ...	140	25	18	30	2	8	20	231	385	103	3			360	19	30	21	27	30
Rosyth ...	85	73	19	17	4	16	117	359	210	54	0			230	19	17	3	30	17
Edinburgh ...	485	39	31	17, 19, 30	10	17	133	403	159	39	0			250 200	19	17 30	4 6	33	30
6. SCOTLAND, W.																			
Eskdalemuir ...	825	50	22	19, 30	3	15	143	283	205	109	1			350	19	30	22	28	30
Paisley ...	188	81	15	—	0	6	24	337	305	78	0			200	14	19	19	31	21
2. ENGLAND, N.E.																			
Alnwick Castle ...	340	70	17	—	0	5	17	299	388	40	0			330	16	30	22	30	30
South Shields ...	72	61	12	17, 21	10	15	107	366	231	30	0			290	21	17	7	29	21
Spurn Head ...	67	40	†	30, 31	7	22	189	324	198	9	17			330	23	31	1	33	31
Cranwell ...	278	43	31	—	0	13	106	427	209	2	0			340	17	31	1	25	30
Howden ...	61	41	29	—	0	—	—	—	—	—	—			—	—	—	—	—	—
3. ENGLAND, E.																			
Gorleston ...	52	42	†	31	3	11	88	309	283	61	0			350	19	31	2	29	31
Felixstowe ...	58	40	23	—	0	8	44	365	303	32	0			330	16	31	3	25	31
Shoeburyness ...	103	90	†	—	0	7	42	395	263	44	0			340	14	31	3	26	31
4. MIDLAND COUNTIES.																			
Benson ...	270	84	†	—	0	6	37	213	327	167	0			270	15	30	18	29	30
5. ENGLAND, S.E.																			
Calshot ...	45	40	31	30, 31	4	11	56	270	292	113	9			300	18	31	1	24	30
Brighton ...	261	53	6	—	0	7	38	284	358	64	0			—	14	30	19	24	30
S. Farnboro' (Pye's Tr.) ...	443	152	†	28, 30	8	14	96	417	182	34	7			270	19	30	23	31	30
Larkhill (S'y Plain) ...	313	63	43	28, 30, 31	14	15	83	428	192	4	23			260	20	30	22	30	30
Richmond (Kew Obs.) ...	82	65	22	—	0	3	11	237	391	105	0			260	12	30	19	26	30
Isle of Grain ...	65	45	30	31	1	7	60	318	121	220	24			340	17	31	3	29	30
7. ENGLAND, N.W.																			
Fleetwood (Cup. Anr.) ...	109	44	—	20, 28 to 31	30	14	128	371	200	15	0			270	23	30	18	—	—
Southport ...	80	62	48	17, 19 to 21, 28 to 31	59	19	205	297	173	10	0			260	23	30	20	32	30
Holyhead ...	60	40	†	23, 28, 30, 31	19	23	279	343	100	3	0			300	26	30	22	34	30
8. ENGLAND, S.W.																			
Pendennis Castle§ ...	256	65	24	19, 22, 26 to 28, 30	47	21	181	307	162	43	4			250	24	28	4	31	28
Plymouth ...	185	88	2	—	0	7	47	234	378	85	0			—	15	26	23	28	30
Lyme Regis ...	556	61	†	—	0	4	12	270	388	53	21			—	14	30	18	22	30
10. IRELAND, S.																			
Kingstown (Cup Anr.) ...	49	27	—	19, 30	8	22	246	317	158	15	0			250	23	30	19	—	—
Quilly ...	100	40	†	22, 27, 28, 30	18	18	192	363	96	19	56			—	20	30	17	32	30
Cahirvee (Val. Obs.) ...	98	41	†	27, 28, 30	7	11	124	372	201	40	0			230	19	28	1	31	30
Weaver Pt. ...	160	30	†	28	1	12	69	343	321	10	0			—	18	28	1	28	28
Baldonnell ...	321	42	31	30	1	10	91	435	157	60	0			240	18	30	19	29	30
11. ENGLISH CHANNEL.																			
Scilly (Cup Anr.) ...	150	19	—	22, 23, 28, 30, 31	34	19	228	278	190	12	2			290	23	30	23	—	—

†† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 1.6 to 5.4, 0 to 1.5 m/s. [Vide Guide to Tables of the W.W.R.]

*Above tops of trees.

† Standard mounting.

§ Direction from the Robinson Anemometer at Falmouth Observatory.

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DECEMBER, 1921; Unsettled, Mild and Windy.

A westerly type of weather prevailed over the United Kingdom during the whole month with the exception of the first four days. It was uniformly mild for the time of year and rain fell on most days, though the total precipitation was only moderate in amount except in the north and west of Scotland.

During the opening hours of the month the British Isles lay between an anticyclone over Scandinavia and a depression over the north-west of Spain. This depression caused unsettled weather over the United Kingdom, with strong easterly winds, especially in the southern districts. On the 2nd day of the month it travelled across northern Spain to the Mediterranean where it produced heavy falls of rain. Of the depressions of any magnitude affecting the British Isles, it was the only one, the track of which lay to the south (see Map, track A). On the 4th and 5th the anticyclone withdrew towards the south and the whole of north-western Europe was open to the influence of the Atlantic depressions which formed an almost unbroken succession during the month. Under the influence of these depressions temperature rose considerably. At 7h. on the 5th it was as high as 28.6a at Valencia, whilst the temperature at Kew at the same hour was only 27.2a. On the succeeding day the warmer air current had affected all parts of the Kingdom and the weather was overcast and dull with rain in all districts. Temperature continued high but the amount of rainfall was generally not very large. At Aberdeen on the 8th the temperature rose to 28.7a (which was equal to the record value of December 15th, 1873.) At Eskdalemuir the maximum temperature on the same day was 28.5a. This was the highest December reading in the twelve years 1910-1921. A small secondary depression lay over the Channel on the morning of the 13th, but the amount of rain associated with it was generally small. After the middle of the month pressure became high in the region of Spitzbergen and depressions from Iceland travelled towards southern Scandinavia causing frequent gales over a large area including the British Isles, the North Sea, Denmark and the Baltic. Temperature continued high during this period. Throughout the night of the 18th-19th it did not fall below 28.3a in many parts of south-eastern and southern England, and remained considerably above in several districts. A depression which lay over Iceland on the morning of the 16th and was centred over southern Norway on the evening of the 17th was accompanied by gales which continued for many hours. A fresh depression passed over the south of Iceland on the 19th and caused a renewal of gales. The precipitation associated with these depressions was as a rule not very large. On Christmas eve under the influence of a north-westerly current in the rear of a depression situated over the Baltic temperature fell considerably over the British Isles and ground frost was general. On Christmas day, however, a fresh depression had caused a renewal of mild conditions and temperature exceeded 28.3a in southern England. A wedge of high pressure which subsequently spread over the English Channel and northern France was accompanied by sharp frost the following morning, but cyclonic conditions soon spread again to all districts. In the north and west heavy falls of rain were recorded. Renewed high winds and gales occurred during the last few days of the month. At 1h. on the 28th a gale of over 55 miles per hour was recorded at Plymouth. The passage of a depression to the north of Scotland on the 30th was accompanied by violent gales. Gusts between 55 and 60 miles per hour were recorded at Kew Observatory, between 60 and 70 miles per hour at Benson and Scilly, and over 75 miles per hour at Holyhead. Considerable damage was done to property. Heavy rain, snow, and hail fell in south-west Scotland during this period. About 25 mm. were recorded at Eskdalemuir on three days in succession.

The weather in Scotland reflected to a great extent the conditions prevailing over England, the month being generally mild and unsettled. Precipitation was however, much greater than in England especially in the west. The withdrawal of the Scandinavian anticyclone towards the south on the 4th and 5th was followed by a rapid rise of temperature which continued generally throughout the month although wintry conditions prevailed about the 21st and again on the 28th and 29th. The mean temperature of the

month was the mildest experienced during December since 1900. The lowest reading anywhere recorded was 26.7a at Bangour on the 4th, and at Eskdalemuir on the 5th. This is an abnormally high minimum for December. The maximum reading was 28.8a at Perth on the 7th, at Crathes on the 8th, and at Stirling on the 16th. Rainfall was generally deficient in the north-east and south-east. (At Aberdeen only about half the normal amount was recorded). Elsewhere there was a large excess. Unsettled weather was almost continuous in the western districts from the 4th of the month. A fall of more than 100mm. occurred at Kinlochquoich on the 4th and again on the 31st. High winds and gales were frequent during the latter half of the month. Thunderstorms with frequent hail showers were reported locally in the west between the 20th and 29th.

In Ireland the weather was generally mild and unsettled. Under the influence of a constant succession of depressions from the Atlantic there were strong and persistent westerly winds, a high temperature and frequent rain.

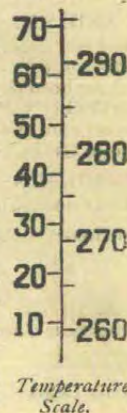
A noteworthy feature of the latter half of the month was the occurrence of frequent gales. Much structural damage was done and several casualties occurred both inland and on the coast. Transatlantic liners experienced very rough weather. An unprecedented high tide accompanied by strong gales caused serious flooding at Hull on the evening of the 17th. Much damage was done and many people rendered homeless. The following notes by observers illustrate the windy conditions which characterized the latter half of the month. Southport (Lancashire)—The month was abnormally mild and almost continuously of a westerly type. The latter half was very stormy. Newquay (Cornwall)—First ten days very quiet. Very rough towards end.

Air Pressure.—The general trend of the isobars on the map of mean pressure is somewhat abnormal. The usual south-westerly type of pressure distribution is replaced by a west-north-westerly type. The gradient was much steeper than usual, mean pressure varying from about 1003mb. in the north to 1021mb. in the south. The dominating circumstances were the large number of depressions passing north of the British Isles to southern Scandinavia, and the constant high pressure over France and the Bay of Biscay. At the telegraphic reporting stations the departure of the monthly means of pressure from the normal varied from +8.6mb. at Valencia and Scilly to -1.3mb. at Lerwick. The highest reading recorded during the month was 1035mb. at Valencia on the 13th and at Falmouth and Jersey on the 31st and the lowest 959mb. at Lerwick on the 20th.

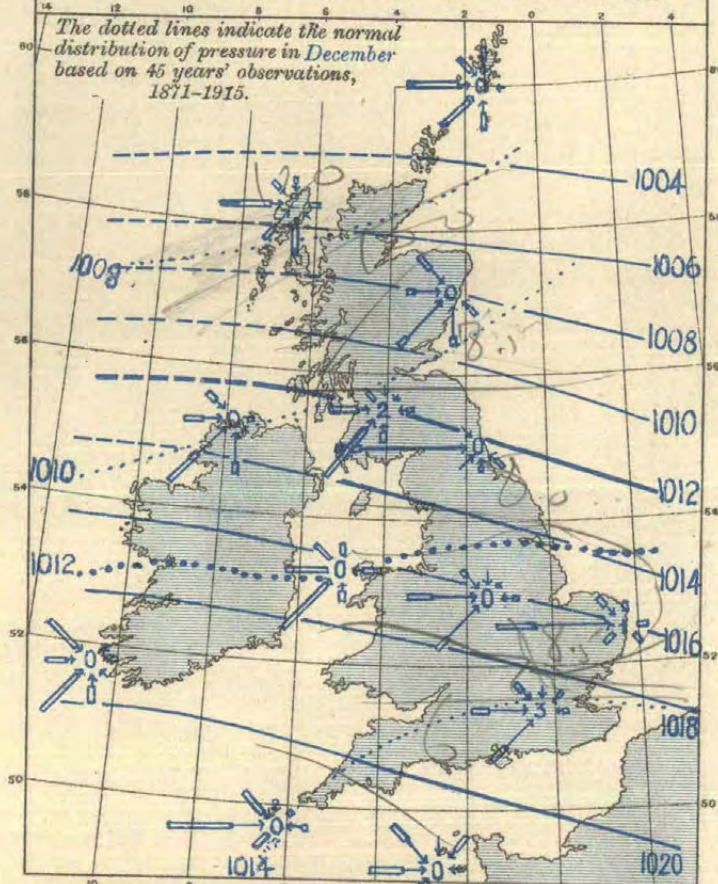
Temperature.—The mean temperature of the month was above the normal in all districts. The excess ranged from 1.4a in England south-west to 2.6a in Ireland north.

Precipitation.—Precipitation was deficient over the greater part of the British Isles although there was an excess of rainy days. Less than half the average rainfall was recorded in the neighbourhood of London, in eastern Aberdeenshire, and in the south-east of Ireland. The total fall of 650 mm. at Glenquoich (Inverness) has only twice been exceeded in December during the last forty years. A large area in the Western Highlands of Scotland received more than 250 mm. As much as 1031 mm. were recorded at Loan (Inverness), a rare occurrence even in this remarkably rainy region. Less than 25mm. were recorded locally in the south-east of Ireland, but in the north-west more than 100mm. fell generally. The general rainfall for December expressed as a percentage of the average was: England and Wales 83; Scotland 133; Ireland 80; British Isles 101.

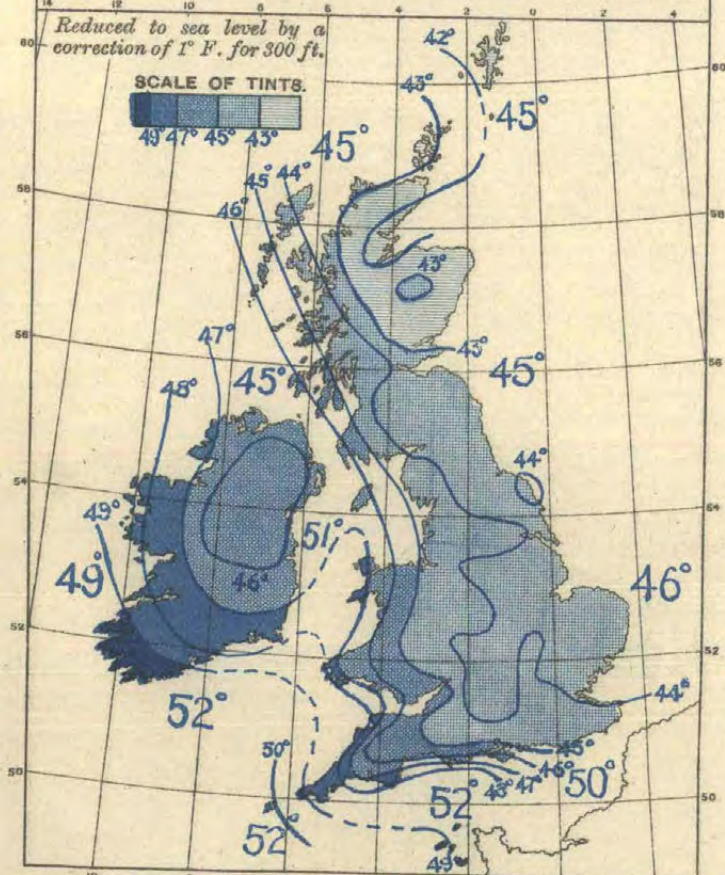
Optical Phenomena.—Solar and lunar halos were observed at various stations. The Zodiacal light was seen at Oxford on many occasions during the latter part of the month and a sun pillar on the 4th. A lunar corona of remarkable brilliance was observed at Valencia on the evening of December 9th. Aurora was observed at Aberdeen and Gordon Castle (Elgin) on the 22nd, and again at Aberdeen on the 28th. It was also observed on several occasions at Lerwick Observatory.



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

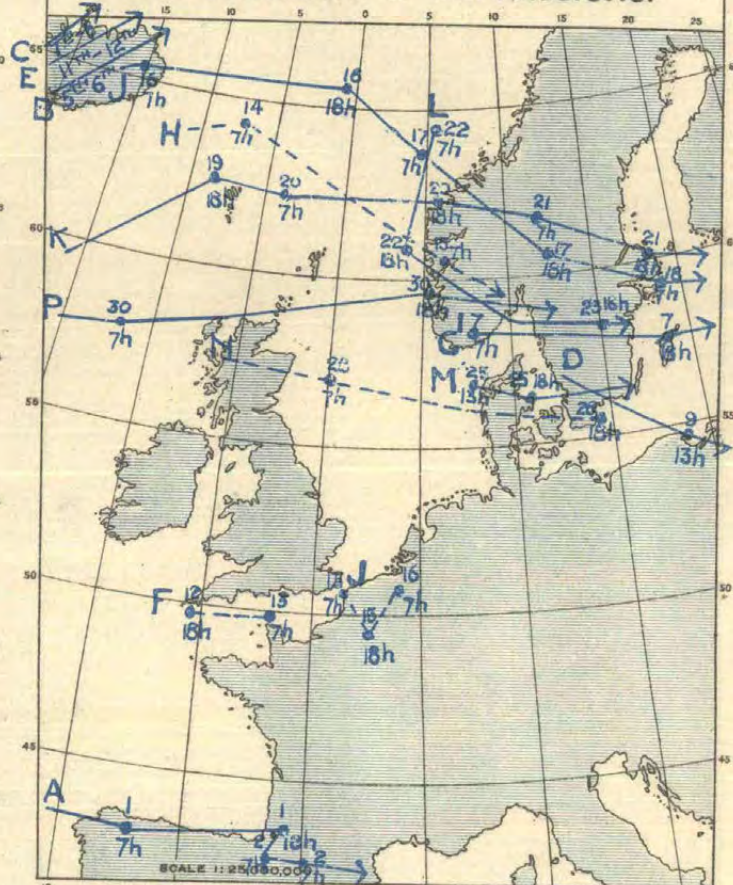


3. DISTRIBUTION OF MEAN TEMPERATURE.



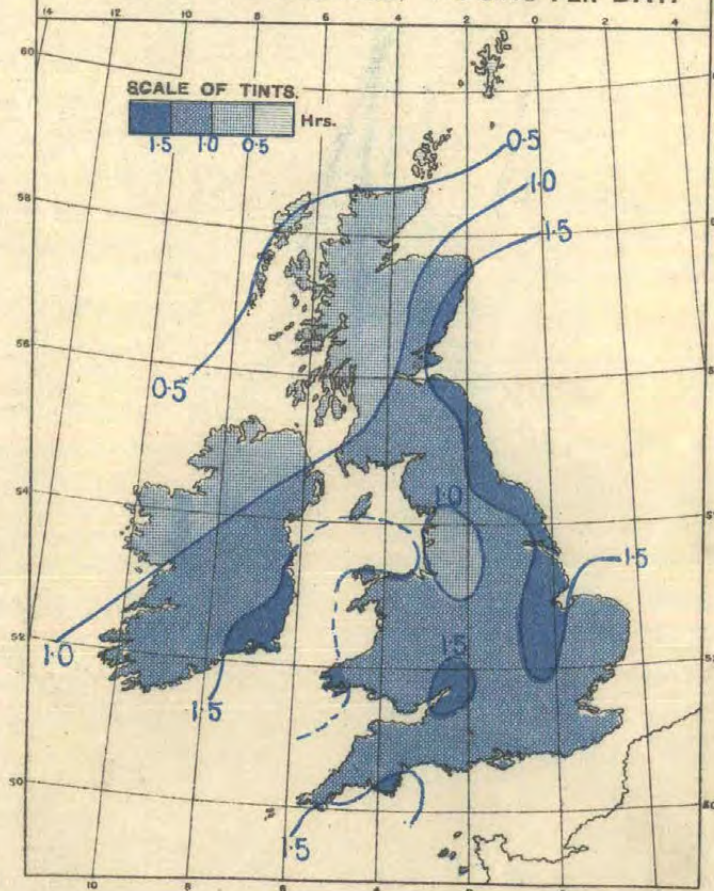
Sea temperatures are shown in large figures, thus: 45°

2. MOVEMENTS OF DEPRESSIONS.

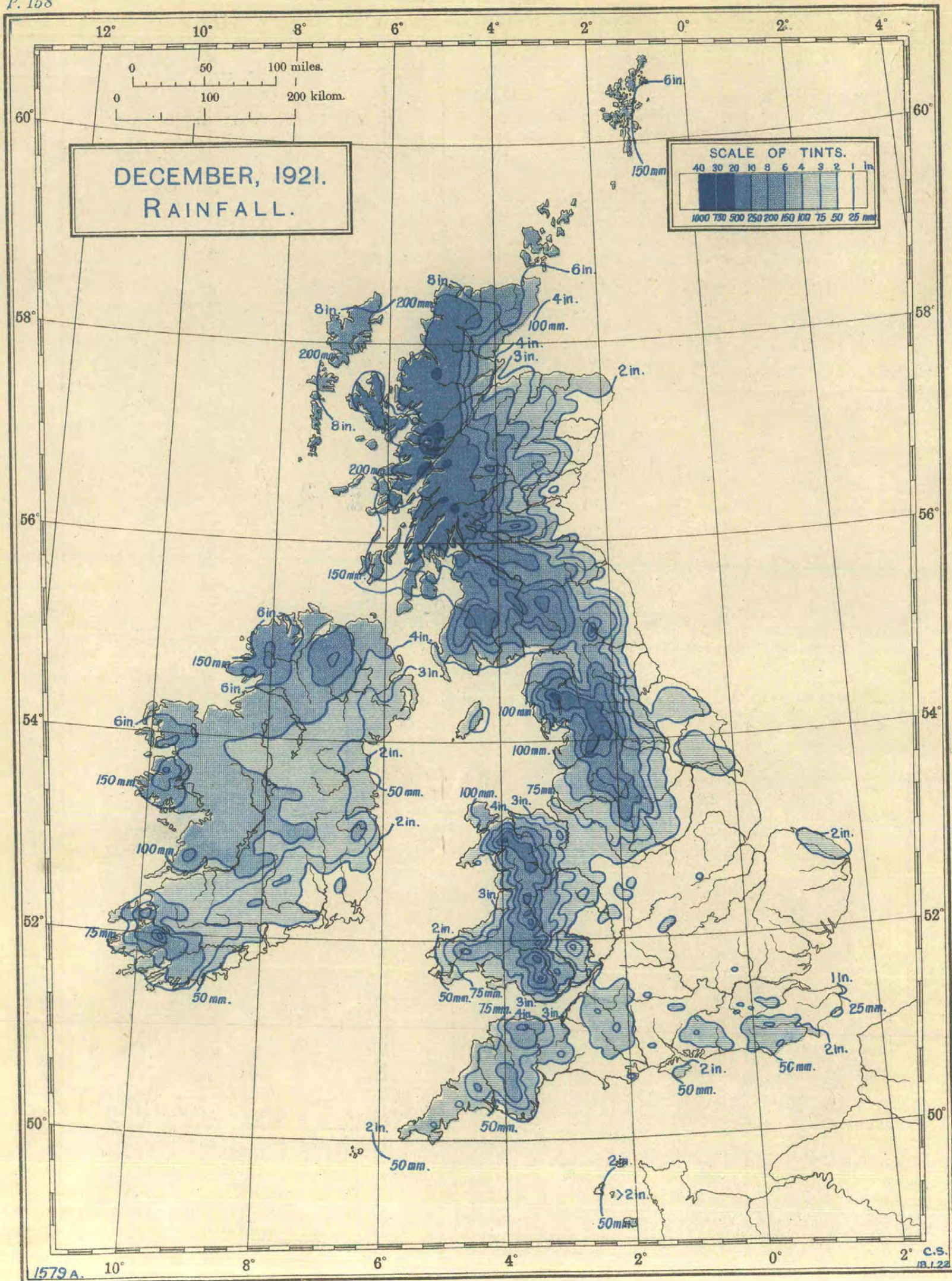


Broken lines show tracks of secondary depressions

4. BRIGHT SUNSHINE, HOURS PER DAY.



* The pressure is expressed in millibars. The means used are corrected for diurnal range.



Scale 1 : 5,000,000.

No. 3679/365, HL 37, 2/197, 1350, 1/22.

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

TABLE III.—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
									Maximum.	Date.	Minimum.	Date.														Daily Mean.	Deviation from Normal.	Per Cent.						
																													Max.	Min.	Max.	Min.	Amount.	Date.
			Max.	Min.	Mean of A and B.	Deviation from Normal.	Maximum.	Date.	Minimum.	Date.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Amount.	Date.	Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.							
0. SCOTLAND, N.					ft.	°F.	°F.	°F.	°F.	°F.			°F.	°F.	in.	mm.	mm.	mm.								hr.	hr.	%						
Shetlands.	Baltasound	...	9 9	9 31	45.9	36.9	41.4	—	56	7th	31	24.25	29	41.1	—	6.30	160	—	14	16, 19	28	24	4	1	14	0	2	—	7	0.16	—	3		
	Lerwick	¶	18—7	7 54	44.5	38.0	41.3	+1.2	51	10th	29	24.31	—	—	—	5.59	142	+20	14	26th	30	23	9	0	10	1	4	—	5	—	—			
Orkneys.	Deerness	§	21 21	9 160	46.7	38.8	42.8	+2.8	52	7, 8, 16	32	23.24	29	—	—	7.57	192	+86	25	27th	29	23	6	2	0	2	3	—	6	0.32	—0.33	5		
	Kirkwall	...	9 9	9 100	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
Hebrides.	Castlebay	...	18—7	7 37	48.7	44.3	46.5	—	54	8th	36	20, 29	—	—	—	3.34	85	—	7	26th	29	21	0	0	6	0	0	—	4	0.43	—	6		
	Stornoway	¶§	18—7	7 51	46.9	39.2	43.1	+3.2	55	5th	32	24th	—	—	—	8.66	220	+61	18	6th	28	27	2	0	8	0	0	—	7	0.49	—0.25	8		
Caithness.	Wick ...	¶	18—7	7 81	44.9	38.0	41.5	+2.5	53	6, 16	28	24th	—	—	—	4.14	105	+27	13	5th	26	20	5	2	4	0	0	—	5	—	—	—		
Sutherland.	Dunrobin	...	9 9	9 12	47.3	36.5	41.9	+3.2	56	15th	28	28th	40.2	—	—	5.50	140	+58	14	29th	25	20	1	—	0	1	0	7	6	—	—	—		
Ross and Cromarty.	Fortrose	...	9 9	9 69	46.9	36.0	41.5	—	53	9th	29	3rd	—	—	—	4.03	102	—	13	28th	22	19	5	5	0	0	1	—	3	0.52	—	8		
	Glencarron	¶	21 21	9 500	46.4	36.0	41.2	+3.5	54	19th	27	4th	—	—	—	18.57	472	+206	86	31st	28	27	3	4	0	2	1	—	2	—	—	—		
	Strathpeffer	¶	9 9	9 125	47.0	35.0	41.0	+3.4	55	8, 10, 15	25	4.5	—	—	—	5.77	147	+59	21	31st	20	18	3	2	2	0	0	—	2	—	—	—		
Inverness.	Ft. Augustus	¶	9 9	9 68	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—			
	Ft. William	¶	21 21	9 171	48.3	38.4	43.4	+3.7	56	8th	29	4th	—	—	—	1.540	391	+135	54	5th	27	26	1	1	4	0	6	—	2	—	—	—		
	Inverness	...	21 21	9 98	48.5	36.5	42.5	—	56	8, 16	24	16th	40.4	—	—	3.69	94	+28	9	28th	23	21	2	0	0	0	0	—	6	0.42	—	6		
1. SCOTLAND, E.																																		
Nairn.	Nairn	¶§	18—7	7 82	45.3	37.8	41.6	+4.0	55	5, 8, 16	27	4th	—	—	—	3.64	93	+37	12	28th	26	16	5	1	1	0	0	—	4	0.61	—	9		
Elgin.	Gordon Castle	¶	21 21	9 101	47.7	36.9	42.3	+3.7	58	8th	26	4th	—	—	—	2.90	74	+6	11	30th	22	15	3	2	0	0	0	—	1	0.94	—	14		
Banff.	Banff ...	...	17—9	9 6	46.4	38.0	42.2	—	58	8th	27	4th	—	—	—	2.26	57	—	8	30th	22	17	4	1	2	0	0	10	3	1.23	—	19	
Aberdeen.	Aberdeen	¶§	24 24	24 46	47.1	38.3	42.7	+4.2	58	8th	33	24th	—	—	—	44.3	1.57	40	—42	10	5th	12	10	3	0	1	0	5	14	0	1.57	+0.41	23	
	Balmoral	¶	9 9	9 930	45.9	33.8	39.9	—	55	6, 8	26	12, 16	—	—	—	3.09	78	—6	14	30th	25	15	7	7	0	0	0	15	1	—	—	—		
	Braemar	...	21 21	9 1120	45.4	34.9	40.2	+5.4	54	8th	26	4th	—	—	—	3.01	76	—15	15	29th	23	18	8	5	1	0	0	13	1	—	—	—		
	Logie Coldstone	9 9	9 608	47.4	34.9	41.2	—	58	8th	27	4, 12	—	—	—	—	1.99	51	—20	13	30th	24	10	6	—	0	0	0	21	1	—	—	—		
Kincardine.	Crathes...	§	9 9	9 269	47.1	35.2	41.2	+5.3	59	8th	30	24, 25, 28, 29	39.7	43.2	—	0.95	24	—	7	4th	16	6	3	2	1	0	0	17	6	1.55	+0.42	23		
Forfar.	Arbroath	...	9 9	9 93	47.5	36.4	42.0	—	55	8, 16	29	4th	—	—	—	0.98	25	—	8	21st	12	8	3	0	0	0	0	15	2	—	—	—		
	Carnoustie	...	9 9	9 39	46.7	38.6	42.7	—	55	8th	31	5, 24	—	—	—	1.19	30	—	8	21st	16	8	0	0	1	0	0	—	1	1.45	—	21		
	Dundee E. Nec.	21 21	9 100	46.9	36.4	41.7	+4.1	55	8th	28	4th	—	—	—	—	1.46	37	—31	9	21st	14	12	0	0	0	0	0	—	1	—	—	—		
	„ Coll. Gdns.	§	9 9	9 244	47.4	34.6	41.0	—	55	8, 31	27	5th	3.95	—	—	1.55	39	—	10	21st	16	11	2	1	0	0	0	17	0	1.61	—	23		
	Kettins	...	9 9	9 218	48.0	34.3	41.2	—	57	16th	25	4th	—	—	—	1.66	42	—	9	21st	13	11	2	0	0	0	2	17	0	—	—	—		
	Lednathie	...	9 9	9 720	46.1	34.6	40.4	—	54	8, 17	22	4th	—	—	—	3.22	82	—	24	29th	12	10	6	—	0	0	1	—	3	—	—	—		
	Montrose	...	17—9	9 16	46.7	37.5	42.1	—	57	8th	31	5, 24	—	—	—	0.88	22	—	4	28th	14	7	0	0	0	0	3	—	1	1.84	—	27		
Perth.	Crieff ...	¶	21 21	9 478	47.4	36.1	41.8	+4.3	58	8th	29	4, 24	—	—	—	3.42	87	—27	14	21, 29	21	15	4	0	0	0	0	—	3	—	—	—		
	Perth ...	...	9 9	9 76	49.1	36.3	42.7	+5.2	59	7th	24	4th	—	—	—	2.77	70	—12	12	26th	13	13	6	0	0	0	3	—	3	1.35	—	20	
Fife.	Cupar...	...	9 9	9 210	48.3	36.1	42.2	—	54	5, 6, 8, 16	25	5th	—	—	—	1.73	44	—	12	30th	13	11	4	0	0	0	5	—	1	—	—	—		
	Inchkeith	¶	18—7	7 190	47.2	40.7	44.0	—	54	6, 8, 26	31	30th	—	—	—	1.80	46	—	9	26th	17	10	3	0	0	0	3	3	1	—	—	—		
	Kirkcaldy	...	9 9	9 66	49.3	38.2	43.8	—	55	6, 8	20	4, 5	—	—	—	3.27	83	—	14	26th	22	15	4	0	0	0	0	—	1	—	—	—		
	St. Andrews	...	17—9	9 20	49.3	36.7	43.0	—	56	8th	26	4, 5	—	—	—	1.57	40	—	10	30th	14	11	0	0	0	0	0	9	1	1.68	—	24		
Linlithgow.	Bangour	...	21 21	9 587	46.6	35.4	41.0	—	53	8, 9	22	4th	—	—	—	4.70	119	—	23	21st	22	16	4	0	0	0	1	—	3	—	—	—		
Edinburgh.	Blackford Hill	§	21 21	9 441	47.9	38.4	43.2	+4.3	54	5, 6, 26	31	24th	—	—	—	3.13	80	+25	15	21st	18	12	2	0	0	0	0	5	2	1.32	—0.07	19		
	Liberton	...	9 9	9 190	49.5	—	—	—	55	6, 7, 9	—	—	—	—	—	3.18	81	—	13	26th	17	12	1	0	1	0	1	—	3	—	—	—		
	Edin. Univ.	...	9 9	9 227	50.0	39.2	44.6	—	55	5, 8, 26	32	4, 5, 24	41.5	44.9	—	2.91	74	+19	15															

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
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Max.	Min.	Rain.	Max.	Min.	Mean of A and B.	Max.	Min.	Max.	Date.	Min.	Date.	1 ft.	4 ft.			Amount.	Date.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										

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DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.			WEATHER. Number of days.										BRIGHT SUNSHINE.					
				Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation. 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.							
				A	B		Maximum.	Date.	Minimum.	Date.					Amount.	Date.									Daily Mean.	Deviation from Normal.	Per Cent.					
				Max.	Min.																							Max.	Min.	Mean of A and B.		
MIDLAND COUNTIES—cont.			ft.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	°F.	in.	mm.	mm.											hr.	hr.	%				
Stafford.	Cheadle	9	9	646	47.2	36.8	42.0	+4.2	54	27th	26	4, 5, 24	—	—	2.58	66	—17	14	27th	17	12	—	—	—	—	—	—	—	—			
	Mayfield	9	9	374	48.4	35.9	42.2	—	56	27th	25	4th	—	—	2.83	72	—	16	27th	19	13	0	0	4	0	—	8	3	0.96	—	13	
Shropshire.	Roden, Well'n	9	9	207	49.9	35.4	42.7	—	56	6, 17, 20	18	4th	—	—	1.86	47	—	8	24th	18	14	0	0	0	0	—	0	—	—	—		
	Wistanstow	21	21	9481	49.8	37.7	43.8	+4.6	60	9, 20, 30	27	26th	—	—	2.06	52	—32	9	30th	16	11	2	0	0	0	—	9	1	—	—		
Worcester.	Malvern	17	—	9377	47.8	40.5	44.2	—	56	17th	31	1, 4	42.8	46.6	1.55	39	—	9	22nd	17	9	0	0	0	0	—	8	0	1.75	—	23	
	Sparkhill	7	13	7424	48.7	38.2	43.5	—	58	27th	26	4th	—	—	1.95	50	—	13	22nd	15	12	2	0	2	1	—	9	3	—	—		
	Tenbury	21	21	9313	48.9	37.5	43.2	+3.2	58	9th	24	24th	42.7	—	1.72	44	—11	7	26th	18	10	0	0	4	0	—	12	5	—	—		
Hereford.	Bromyard	9	9	9392	48.9	36.2	42.6	—	58	27th	24	24th	42.1	46.1	2.01	51	—	8	22nd	17	11	0	0	0	0	—	9	1	—	—		
	Hereford	9	9	9291	49.4	37.4	43.4	+3.9	57	9, 27	28	26th	—	—	1.41	36	—36	6	27th	13	11	0	0	0	0	—	11	—	—	—		
	Ross	18	—	7223	48.5	40.1	44.3	+4.3	56	9, 10, 17	27	26th	42.4	46.8	1.61	41	—35	10	26th	14	9	0	0	0	0	3	10	6	1.65	—	21	
Gloucester.	Cheltenham	9	9	9214	50.1	37.6	43.9	+3.9	56	8, 9, 18	25	24, 25	—	—	1.39	35	—34	9	27th	11	8	0	0	0	0	—	12	0	1.21	—	16	
	Overcourt	9	9	9147	50.0	41.3	45.7	—	57	27th	30	24th	—	—	1.94	49	—	10	22nd	16	12	0	0	2	0	—	3	—	—	—		
	Clifton	9	9	9225	49.0	39.1	44.1	+2.8	55	27, 28	30	5, 24	—	—	2.87	73	—24	16	22nd	20	15	0	0	0	0	—	3	0	1.22	—	16	
5. ENGLAND, S.E.																																
London.	Camden Square	9	9	9110	50.0	38.7	44.3	+3.8	57	27th	29	5, 6	43.1	46.6	1.13	29	—32	5	14th	15	11	—	—	—	—	—	—	—	—	—	—	
	East Ham	9	9	915	50.2	38.3	44.3	—	58	27th	28	1, 5, 6	—	—	0.99	25	—	5	13th	13	10	—	—	—	—	—	—	—	—	—		
	Enfield	9	9	9148	49.5	38.1	43.8	—	57	27th	28	14, 26	—	—	46.1	1.44	37	—	7	26th	16	11	1	0	0	0	—	6	1	1.36	—	17
	Greenwich	9	9	9149	49.1	39.5	44.3	+4.1	57	28th	29	26th	44.8	47.2	1.17	30	—27	5	14th	14	12	0	0	0	0	3	12	2	0.92	—0.14	12	
	Hampst'd Res.	21	21	9450	47.6	37.9	42.8	—	56	28th	27	5th	—	—	1.24	31	—	6	26th	15	11	0	0	0	0	—	14	2	1.26	—	16	
	Richmond (Kew Obs.)	24	24	24	49.4	40.2	44.8	+4.5	57	28th	30	6th	42.4	47.3	1.30	33	—25	6	1st	13	8	0	0	0	0	5	6	0	1.17	—0.02	15	
	Kensington Pal.	9	9	980	50.8	39.5	45.2	—	58	27, 28	30	5, 6	43.7	47.9	1.09	28	—	5	14th	15	11	0	0	0	0	—	4	0	—	—	—	
Tottenham	21	21	951	49.0	40.5	44.8	—	57	28th	30	1, 5	—	—	47.3	1.11	28	—	6	26th	14	11	0	0	0	0	—	0	0.93	—	12		
Westminster	9	9	927	50.9	39.6	45.3	+4.0	58	27, 28	30	5, 6	—	—	1.02	26	—28	5	14th	16	9	0	0	0	0	—	10	—	0.81	+0.29	10		
Kent.	Belvedere	9	9	914	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Bexley Heath	21	21	7161	48.6	39.6	44.1	—	57	28th	28	26th	44.0	47.7	1.24	32	—	8	14th	14	8	0	0	0	0	—	6	1	—	—	—	
	Biggin Hill	18	—	7600	45.7	38.9	42.3	—	55	17th	27	5th	—	—	2.00	51	—	9	26th	19	13	0	0	1	0	10	—	3	1.35	—	17	
	Canterbury	9	9	940	48.9	39.6	44.3	—	57	28th	29	1, 5, 6	42.2	48.2	1.34	34	—	7	14th	16	12	—	—	—	—	—	—	—	—	—		
	Deal	17	—	918	48.0	40.3	44.2	—	57	28th	26	5th	43.6	46.9	1.67	42	—	7	30th	12	12	0	0	0	1	—	3	2	1.29	—	16	
	Dungeness	18	—	721	48.2	40.9	44.6	+2.9	57	7th	25	5th	—	—	2.35	60	—10	12	22nd	21	12	2	0	2	0	6	—	6	—	—	—	
	Folkestone	17	—	9101	48.3	39.5	43.9	—	58	18th	27	5th	—	—	48.9	1.69	43	—	4	13th	18	15	0	0	0	0	—	3	1.12	—	24	
	Isle of Grain	18	—	720	47.8	39.0	43.4	—	57	28th	22	5th	—	—	0.79	20	—	8	14th	11	6	0	0	0	0	6	9	3	1.30	—	17	
	Lympe	18	—	7350	46.1	38.4	42.3	—	55	17th	21	5th	—	—	46.1	1.76	45	—	8	14th	19	12	0	0	0	0	12	7	2	1.34	—	17
	Margate	17	—	951	47.4	39.7	43.6	+2.5	57	28th	29	1st	43.7	47.5	0.88	22	—36	6	14th	12	8	0	0	0	0	—	6	2	0.62	—0.77	8	
	Ramsgate	9	9	9168	47.9	38.6	43.3	—	55	18, 27, 28	28	1st	—	—	1.04	26	—	5	14th	17	9	1	0	0	0	—	0	0	1.22	—0.43	15	
	Sevenoaks	9	9	9509	47.8	38.2	43.0	—	55	17, 18	28	5, 6	41.7	46.4	2.12	54	—25	11	14th	17	11	0	0	0	0	—	10	0	1.21	—	15	
	Tunbridge W.	17	—	9354	47.4	39.0	43.2	+3.2	56	17, 18	26	5th	44.1	47.6	2.14	54	—33	10	14th	17	13	0	0	0	0	—	13	1	0.92	—0.43	12	
	Surrey.	Addington	9	9	9472	48.1	36.3	42.2	—	57	28th	26	5, 6	—	—	1.51	38	—	8	26th	15	12	—	—	—	—	—	—	—	—	—	—
Croydon		18	—	7249	47.7	40.7	44.2	—	57	17, 28	29	5th	—	—	1.22	31	—	6	14th	16	11	0	0	0	0	9	5	0	1.29	—	16	
Wallington		9	9	9140	49.5	38.9	44.2	—	57	27, 28	29	6th	42.8	45.0	1.26	32	—	6	14th	20	11	1	0	0	0	—	10	1	—	—	—	
Wisley		9	9	9150	50.1	38.4	44.3	+4.4	58	30th	25	26th	43.4	46.9	1.32	34	—30	6	14th	17	10	0	0	0	0	—	11	0	1.42	+0.07	18	
Sussex.	Ardingly	9	9	9439	48.2	36.5	42.4	—	54	17, 18, 28	27	5th	—	—	2.71	69	—	13	22nd	20	13	0	0	0	0	—	11	2	—	—	—	
	Bognor	9	9	920	50.1	40.0	45.1	+3.0	56	17th	31	5, 26	—	—	50.6	1.51	38	—35	9	22nd	13	9	0	0	1	0	—	6	0	1.51	—0.30	19
	Brighton	17	—	931	48.5	41.9	45.2	+3.2	55	7,																						

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.										Earth Temperature at 7.8 or 9 ft.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.		
					Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.	Deviation from Normal.	Most in a day.			Precipitation 1 in. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.								
					A	B		Maximum.	Date.	Minimum.	Date.			Amount.											Date.	Daily Mean.	Deviation from Normal.	Per Cent.					
					Max.	Min.																							Max.	Min.	Mean of A and B.		
7. ENGLAND, N.W.																																	
Cumberland.	Aspatria (Mealsgate)†	21	21	9	487	47.3	37.7	42.5	+3.5	52	5, 6, 8, 19	27	24th	43.5	46.5	4.91	125	+13	27	26th	25	16	1	0	1	0	7	2	0.78	-0.28	11		
	Egremont	21	21	9	349	48.2	38.2	43.2	—	53	16th	27	4th	42.6	45.5	6.56	167	—	25	24th	27	21	0	0	2	0	9	0	1.17	—	16		
	Keswick	9	9	9	254	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
	Newton Rigg	21	21	9	559	48.5	36.1	42.3	+4.9	56	20th	26	24th	—	—	5.35	136	+26	28	26th	23	14	3	0	1	0	—	0	1.31	+0.28	18		
	Scaleby	9	9	9	111	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Lancashire.	Blackpool	17-9	9	66	47.3	41.2	44.3	+4.2	52	6, 19, 26	28	4. 5	44.6	47.7	4.38	111	+28	24	27th	27	18	0	0	1	0	8	1	1.31	+0.08	18			
	Blundellsands	9	9	9	34	49.2	40.4	44.8	—	56	27th	26	4th	42.9	45.8	3.59	91	—	24	27th	24	16	1	0	5	0	9	5	—	—	—		
	Bolton	9	9	9	341	48.5	38.5	43.5	—	54	19th	28	5th	42.9	45.4	6.68	170	—	36	27th	26	21	0	0	2	0	8	0	0.47	—	6		
	Burnley	9	9	9	458	47.9	37.3	42.6	—	53	6, 19	24	24th	42.0	45.8	6.53	166	—	34	27th	27	22	—	—	—	—	11	—	0.46	—	6		
	Darwen	21	21	9	722	47.0	37.6	42.3	—	53	20th	26	5th	41.9	44.7	7.92	201	—	32	27th	24	20	0	0	5	0	10	0	0.52	—	7		
	Hutton	9	9	9	82	48.9	38.3	43.6	—	54	6, 19, 26	26	24th	42.8	46.0	4.68	119	—	32	27th	22	18	0	0	4	0	9	5	0.89	—	12		
	Lancaster	9	9	9	311	48.0	38.5	43.3	—	52	6, 8, 19	27	5th	44.3	46.9	6.61	168	—	32	26th	25	21	0	0	3	0	9	1	0.90	—	12		
	Leyland	9	9	9	124	49.1	37.6	43.4	—	54	6, 19, 27	24	24th	—	—	5.10	129	—	30	27th	28	17	0	0	2	0	10	5	1.07	—	14		
	Morecambe	17-9	9	24	47.4	40.3	43.9	—	53	6th	28	5th	—	—	4.80	122	—	21	27th	25	22	—	—	—	—	—	—	1.11	—	15			
	Southport	17-9	9	37	47.2	41.1	44.2	+4.0	53	6, 26	27	4th	41.6	44.8	3.84	98	+16	27	27th	25	16	0	0	3	0	6	7	1.38	+0.15	18			
	Stonyhurst	9	9	9	375	48.5	38.6	43.6	+4.6	53	19th	29	5th	—	—	7.85	199	+76	28	27th	26	21	0	0	5	0	6	0	0.99	+0.18	13		
Liverpool.	Bidston	21	21	9	188	49.5	40.4	45.0	+4.2	56	6, 20	28	4. 5	—	—	3.00	76	+9	21	27th	21	17	0	0	4	0	—	2	1.47	—	20		
	Whitworth Pk.	21	21	9	125	48.9	39.2	44.1	+3.7	56	20th	27	5th	—	—	4.37	111	+29	24	27th	23	20	0	0	1	1	—	0	0.41	-0.01	5		
	Oldham Road	21	21	9	190	48.9	40.0	44.5	+3.5	55	19, 20	29	5th	42.3	46.4	4.71	120	+30	25	27th	24	23	0	0	1	0	4	0	0.27	+0.04	4		
	Alex. Park	18-7	7	99	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cheshire.	Hawarden B'ge	9	9	9	22	51.4	40.6	46.0	+4.5	57	6, 9, 18, 19	28	4th	—	—	2.78	71	+13	12	27th	18	14	—	—	—	—	—	—	—	—	—		
	Hoylake	9	9	9	30	50.7	40.6	45.7	+4.4	57	27th	24	4th	—	—	3.02	77	+5	17	27th	19	15	—	—	—	—	—	1.55	+0.26	21			
	Macclesfield	9	9	9	500	47.8	36.4	42.1	+3.9	54	27th	23	5th	—	—	4.33	110	+22	16	24, 27	21	18	—	—	—	—	—	—	—	—	—		
7a and 8b WALES.																																	
Flint.	Rhyl	17-9	9	30	49.5	41.2	45.4	+3.4	57	30th	27	5th	—	—	2.41	61	-3	15	24th	22	12	0	0	1	0	2	6	1.18	-0.37	16			
	Holyhead	18-7	7	15	50.2	45.0	47.6	+4.2	55	6, 8, 9	32	4th	—	—	3.61	92	-14	16	27th	24	16	0	0	4	0	0	2	4	1.14	—	15		
	Colwyn Bay	17-9	9	81	49.8	43.4	46.6	—	58	6th	27	4th	—	—	3.48	88	—	17	24th	14	13	—	—	—	—	—	—	1.24	—	16			
	Llandudno	17-9	9	22	49.9	42.9	46.4	+3.6	59	26th	30	5th	—	—	3.06	78	-1	15	24th	21	13	0	0	3	0	—	—	1.16	-0.13	15			
Merioneth.	Aberdovey	9	9	9	60	50.2	42.7	46.5	+3.1	55	17th	31	5th	—	—	3.80	97	—	18	26th	24	18	0	0	2	0	—	2	1.18	-0.05	15		
	Welshpool	9	9	9	262	51.9	35.7	43.8	—	57	25th	21	1st	—	—	3.73	95	—	15	30th	20	15	0	0	2	0	—	2	—	—	—		
Cardigan.	Aberystwyth	17-9	9	16	48.9	42.3	45.9	—	54	26th	30	4. 24	—	—	2.94	75	—	11	26th	23	16	0	0	0	0	—	0	1.20	+0.07	16			
	Haverfordwest	21	21	9	250	50.9	40.8	45.9	—	56	9, 28	27	4th	—	—	2.79	71	-74	13	27th	25	20	0	0	1	0	—	5	1.64	+0.19	21		
	St. Ann's Hd.	18-7	7	149	50.5	45.9	48.2	+3.5	55	6, 9, 17	33	4th	—	—	1.99	51	-64	9	26th	22	15	0	0	2	0	4	—	6	1.48	+0.13	19		
	Tenby	17 9	9	64	48.5	40.7	44.6	—	54	9th	34	14. 24. 28	—	—	2.72	69	—	9	26th	26	19	0	0	1	0	7	0	1.48	-0.07	19			
Brecknock.	Gwernyfed Pk.	9	9	9	374	49.3	35.8	42.6	+3.5	55	27th	23	24th	—	—	2.16	55	-40	10	27th	22	11	0	0	1	0	—	—	—	—	—		
	Rhayader	9	9	9	757	47.7	37.2	42.5	—	54	27th	25	24th	—	—	3.77	96	—	14	26th	25	17	0	0	2	0	9	1	0.92	—	12		
Glamorgan.	Cardiff	21	21	9	202	49.0	39.4	44.2	+3.3	54	9, 17, 27	31	4. 5. 24	44.1	48.0	2.64	67	-60	11	22, 26	21	15	0	0	0	0	6	2	1.33	—	17		
	Swansea	9	9	9	25	51.3	41.4	46.4	—	56	9, 17, 18	32	4th	46.7	52.0	3.39	86	—	11	26th	25	19	0	0	1	0	6	3	0.95	—	12		
Monmouth.	Newport	9	9	9	32	50.4	39.9	45.2	—	56	27th	32	5, 12, 18, 26	44.3	48.3	3.29	81	—	14	26th	19	15	—	—	—	—	—	—	—	—	—		
8b. ENGLAND, S.W.																																	
Somerset.	Bath	17-9	9	66	48.9	39.8	44.4	+3.6	55	17, 28, 30	26	26th	44.9	48.8	1.96	50	-38	9	1, 22	17	12	0	0	0	0	—	0	1.07	-0.28	14			
	Long Ashton	9	9	9	162	49.4	38.7	44.1	—	56	27th	28	24, 26	45.3	47.5	2.66	68	—	13	22nd	21	16	0	0	0	0	—	2	1.17	—	15		
	Weston s. Mare	17-9	9	29	49.2	41.2	45.2	+2.8	59	6th	31	12, 26	—	—	1.94	49	-34	9	26th	18	13	0	0	3	0	5	1	1.09	—	14			
Dorset.	Dorchester	9	9	9	314	50.2	38.8	44.5	—	56	18th	30	24, 26	—	—	1.90	48	—	11	27th	19	12	0	0	0	0	—	3	—	—	—		
	Holton Heath	9	17	9	64	49.2	40.3	44.8	—	57	17th	26	26th	46.0	49.4	1.27	32	—	7	26th	19	11	0	0	0	0	11	0	1.44	—	18		
	Portland Bill	18-7	7	19	52.2	43.9	48.1	+3.4	56	7, 8, 9, 11	31	4th	—	—	1.22	31	-44</																

TABLE III. (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS, DECEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.								Earth Temperature at 7.8 or 9 h.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
						Means of		Deviation from Normal.	Absolute Maximum and Minimum.				Total Fall.			Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hall.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
									A	B	Maximum.	Date.					Minimum.	Date.										Amount.	Date.	Daily Mean.	Deviation from Normal.	Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE III. (a).—
ADDITIONAL VALUES OF SUNSHINE.
DECEMBER, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ..	1.28	—0.40	16
Hove ..	1.54	—	19
Watergate ..	1.30	—	16
LONDON, Bunhill Row	0.31	+0.05	4
Regent's Park	0.81	—	10
Plumstead ..	0.44	—	6

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
	°F.	°F.	°F.	°F.
Belper (R. Derwent) 9 h.	49	39	44.7	+2.3

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets, Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked g, where Glaisher stands are in use. When the maximum thermometer is read in the morning the reading is credited to the previous day. When the terminal hours for maximum and minimum are separated by a dash, thus 18—7, the day-maximum for the period 7 h to 18 h and the night-minimum for the period 18 h to 7 h are reported.

Rainfall.—The daily amounts are for the 24 hours beginning at the time of observation.

Weather Phenomena.—The number of days of Precipitation, Snow, Hall, 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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahirciveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure and Mean Temperature are the true daily mean computed from the hourly tabulations of the traces of the photographic recording instruments.

Tables III and IV.—Normals.—The normals used for stations are—Pressure, for the 45 years 1871–1915; Temperature, Rainfall and Sunshine for the 35 years 1881–1915. In the case of pressure corrections for diurnal variation have been applied

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of DECEMBER, 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 93 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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TABLE IV. (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Month of DECEMBER, 1921.

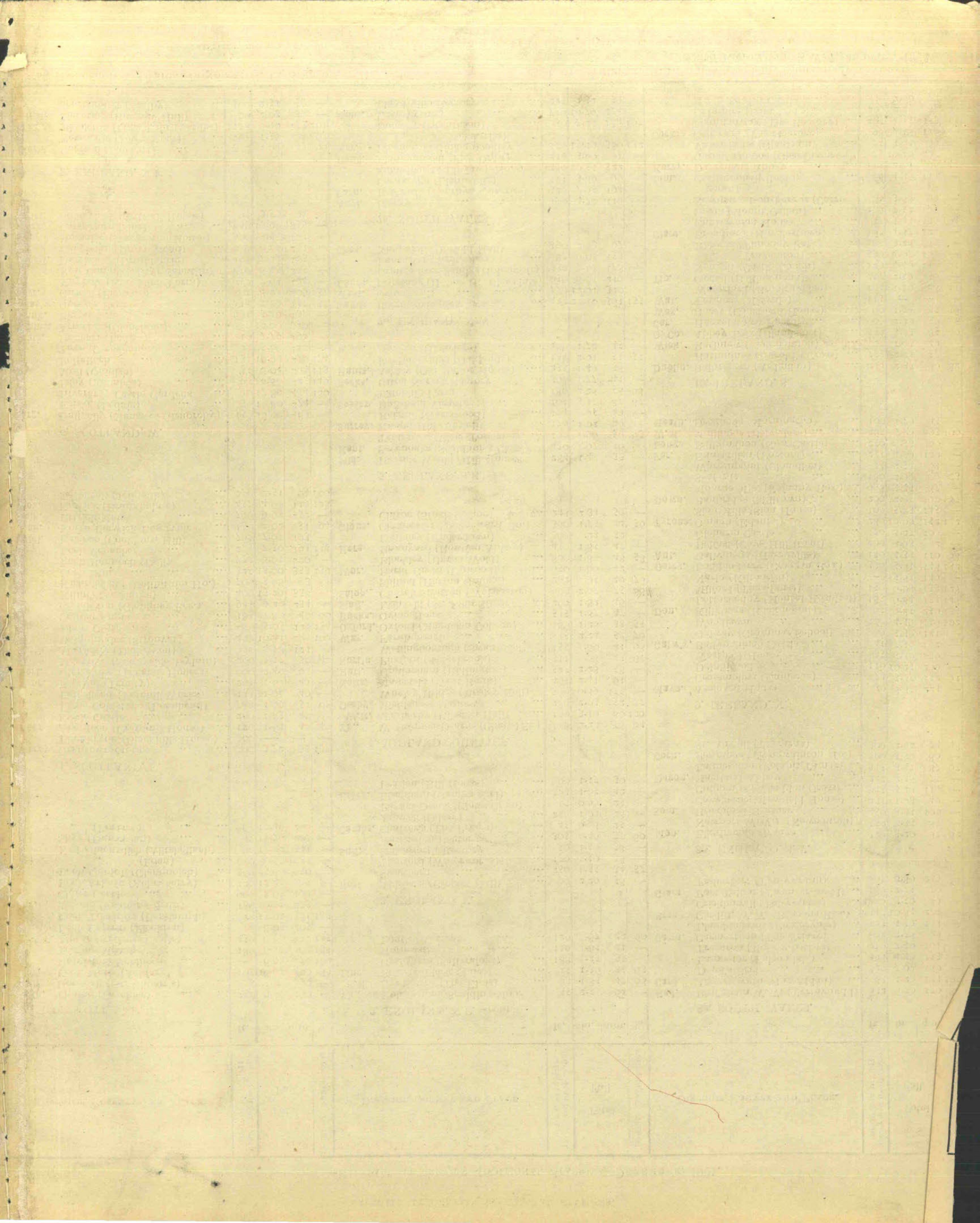
DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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TABLE V.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, DECEMBER, 1921.

DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total				Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total				Percentage of Normal.	DISTRICT, COUNTY AND PLACE.					Height of Station above Mean Sea Level.	Total				Percentage of Normal.			
						Fall.											Fall.											Fall.							
					ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%						ft.	in.	mm.	%
O. SCOTLAND, N.																																			
Calth.	Thurso (Buckies)	...	240	6.29	160	...																													
	Suth.	Dornoch (St. Gilbert's)	...	35	3.90	99	...																												
R. & C.	Loch More (Achfary)	...	167	16.87	429	183	...																												
		Melvich Schoolhouse	...	...	6.94	176	162	...																									
		Tongue Manse	...	180	6.47	164	131	...																											
		Alness (Ardross Castle)	...	450	6.00	152	145	...																											
		Loch Carron (Plockton)	...	...	8.05	205	...																										
Inv.	Loch Torridon (Bendarnph)	...	20	15.01	381	147	...																												
		Arisaig (Faire-na-Sguir)	...	130	10.75	273	...																												
		Cluny Castle	...	900	7.63	194	...																												
		Loch Arkaig (Achnacarry)	...	120	17.45	443	...																												
		Loch Quoich (Glenquoich)	...	569	25.60	650	175	...																											
		(Loan)	...	650	40.60	1031	...																												
		N. Ballachulish (Alltshellach)	...	80	13.42	341	...																												
		Skye (Dunvegan)	...	47	11.70	297	...																												
		" (Portree)	...	65	10.46	266	...																												
			...																																
1. SCOTLAND, E.																																			
Meray.	Grantown-on-Spey	...	700	3.72	95	137	...																												
Aber.	Lhanbryde (Blackhills House)	...	300	...	...	...	...																								
		Aberdeen (Cranford House)	...	120	1.64	42	47	...																											
	Fyvie Castle	...	200	1.83	47	...	...																										
		Logie Coldstone (Loanhead)	...	743	1.99	51	67	...																											
Kinc.	Peterhead (Forehill Works)	...	133	1.94	49	...	...																										
		Brechin (Trinity)	...	295	1.61	41	...	...																									
Forf.	Glen Prosen (Pearsie House)	...	600	2.40	61	...	...																										
		Montrose (Sunnyside Asylum)	...	200	1.17	30	42	...																											
Perth	Aberfeldy (Dall Avon)	...	320	4.78	121	...	...																										
		Balquhider (Stronvar)	...	422	10.41	264	109	...																											
	Blair Castle	...	...	5.03	128	134	...																										
		Coupar Angus	...	183	1.80	46	60	...																											
	Glendevon (Glenquey Res.)	...	945	9.20	234	...	...																										
		Killin (The Manse)	...	400	13.29	338	...	...																									
	Kirkmichael (Ballintuin Ho.)	...	700	3.68	93	...	...																										
		Loch Dhu	...	325	13.90	353	138	...																											
	Loch Rannoch (Dall)	...	772	8.65	220	...	...																										
		Loch Venacher	...	275	7.50	191	114	...																											
Midl.	Balerno (Cockburn Hill)	...	767	7.61	193	...	...																										
		North Berwick Reservoir	...	150	2.02	51	94	...																											
Selk.	Ettrick Manse	...	796	9.93	252	...	...																										
		Hawick (Braxholme)	...	457	4.68	119	128	...																											
Rox.	Jedburgh (Jedneuk)	...	270	2.51	64	100	...																												
6. SCOTLAND, W.																																			
Arg.	Dalmally (Manse of Glenorchy)	...	150	18.96	482	...	...																										
		Eriska (Ledaig)	...	30	10.80	274	...	...																									
	Inveraray Castle Gardens	...	40	17.89	454	180	...																												
		Islay (Eallabus)	...	68	8.86	225	149	...																											
	Mull (Quinish)	...	35	8.04	204	113	...																												
		Poltalloch	...	132	10.99	279	174	...																											
	Tiree (Cornamora)	...	25	5.66	144	...	...																										
		Dougarie Lodge	...	10	7.79	198	...	...																									
Bute.	Arrochar (Glen Loin)	...	50	12.60	320	...	...																										
		Biggar	...	691	5.40	137	...	...																									
Glas'w.	Queen's Park	...	114	5.79	147	137	...																												
		Girvan (Pinnore)	...	207	8.22	209	137	...																											
Ayr.	Maybole (Knockdon Farm)	...	352	7.63	194	...	...																										
		New Cumnock (Ayr Sanat'm)	...	850	8.45	215	...	...																									
Dumf.	Durrisdeer (Drumlanrig)	...	191	7.29	185	...	...																										
		Langholm (Drove Road)	...	270	9.48	241	...	...																									
	Moniaive (Maxwellton House)	...	400	5.54	141	...	...																										
		Carsphairn (Shiel)	...	850	13.96	355																											
Kirk.	Stoneykirk (Ardwell House)	...	65	3.59	91	88	...																												



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5 APR 1922

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Wind Section.

(825). Wt.37/617/P147 1,225 3/22. B. & F., Ltd. (G93).

Stormy conditions were experienced very generally on JANUARY 18th when a severe south-westerly gale swept across the British Isles. Gusts of over 60 m.p.h. were reported from many parts, while in north-west England and on Salisbury Plain the maximum speed (at 60 ft. above the ground) was nearly 80 m.p.h. A depression from the Atlantic caused a southerly gale on FEBRUARY 4th in west Ireland and in the western part of the English Channel on the 5th before it filled up, and there was also a gale on the latter date in Caithness and the Shetlands. It is noteworthy that from 2h. on February 1st until 10h. on the 3rd (56 hours) "dead calm" was registered continuously by the anemometer at Alnwick Castle, Northumberland; and at the Groyne Lighthouse, South Shields, no wind above five miles per hour was registered during the same period. On MARCH 28th a deep depression reached the north of Scotland and caused a gale in many parts of England and Ireland, and rain generally, as much as 33mm. falling at Eskdalemuir. A secondary depression which developed near the Faroe Islands on the afternoon of APRIL 13th moved south-eastwards to Denmark and became much deeper, intensifying the northerly current over the British Isles and causing a gale on the east coast of England and in the Irish Sea. During the night of June 9th-10th strong gales from the north-west were experienced in the west of Scotland, and much damage was done to crops and shipping. On the night of September 11th-12th a well-marked secondary depression passed rapidly up the English Channel and caused gales and thunderstorms over a wide area. During the 16th and 17th a shallow depression which travelled northwards from Spain caused strong easterly gales in the English Channel, and a thunderstorm at Jersey with 22mm. of rain. A shallow depression which lay off the south-west of the British Isles on the evening of OCTOBER 2nd travelled across Scotland during the early hours of the 3rd and, growing deeper, passed rapidly away to Scandinavia, accompanied by gales and sleet. Under the influence of a deep depression which lay to the north of Iceland on the 14th, and travelled away towards Spitzbergen, gales and high winds were experienced over a wide area embracing the north of Scotland, Scandinavia, and Denmark. An Icelandic depression, which had caused unsettled weather in the extreme northern and north-western parts of the British Isles at the end of October, passed rapidly away, and at 7h. on NOVEMBER 1st was situated over Scandinavia. It was accompanied by severe gales, hail, and snow showers. This gale was especially severe in the North Sea, where it caused wrecks and loss of life, and unusually high tides in the Thames Estuary. A depression which appeared off the north-west of Ireland on the 5th travelled rapidly across the centre of England on the succeeding night. It deepened considerably, and at 7h. on the 6th was situated off the East Anglian Coast. Gales accompanied by heavy rain prevailed over a wide area and local thunderstorms occurred. Cross-Channel services and telegraphic communications were interrupted, and several wrecks occurred in the North Sea and English Channel. A depression which was over Iceland on the morning of December 16th and was centred over southern Norway on the evening of the 17th was accompanied by gales which continued for many hours. An unprecedented high tide accompanied this gale at Hull, where there was destructive flooding during the evening of the 17th. On the 19th a new depression passed over the south of Iceland and further gales occurred. Renewed high winds and gales prevailed during the last few days of the month. At 1h. on the 28th a gale of over 55 m.p.h. was recorded at Plymouth. The passage of a depression to the North of Scotland on the 30th was also accompanied by violent gales. Gusts between 55 and 60 m.p.h. were recorded at Kew Observatory, between 60 and 70 m.p.h. at Benson and Scilly, and over 75 m.p.h. at Holyhead. Considerable damage was done to property.

Air Pressure.—In JANUARY the mean monthly trend of the isopleths was of a normal type, but the gradient was much steeper than usual. During the month depressions frequently passed between Iceland and Scotland and were accompanied by numerous minor disturbances which affected the British Isles in general. During FEBRUARY there was no instance of a primary depression passing directly across the British Isles. Over the northern area the mean monthly trend of the isopleths was of a normal south-westerly type, but anticyclonic in the south. On the 27th at Valencia Observatory the barometer rose to 1048.3mb, the highest pressure on record at this station being 1053.2mb on January 28th, 1905. At Edinburgh the mean pressure for the month (1024.6mb.) was the highest in any month since May, 1896, and has been exceeded in February during the last 65 years only in 1890 and 1891. On the 10th the pressure reached 1044.7, a reading only once exceeded in February at this station during the last 80 years (1051.1mb in February, 1902), but equalled in 1911. In MARCH the trend of the isopleths was of a normal type, but the gradient was much steeper than usual. The distribution of pressure during APRIL was of an anti-cyclonic type, conditions which were reflected in the small rainfall. The mean monthly pressure was abnormally high, especially over the northern parts of the Kingdom, and only in 1893 has it been exceeded in Scotland in April during the past 50 years. At Valencia Observatory the mean for the month (1022.5mb) equalled the value for 1912, and with the exception of 1896 was the highest mean for April in records extending as far back as 1866. In MAY the trend was of a normal type, but the mean pressure was lower than usual and the gradient from the English Midlands northwards was steeper. The distribution of pressure during JUNE was of a very unusual type and was everywhere much above the normal, the British Isles being in the right hand section of a semicircle of high pressure, the centre of which was to the west of Ireland. The general trend of the isopleths in JULY was normal, but pressure was everywhere high. The only depression which passed directly over the Kingdom was one which appeared off the south of Ireland towards the end of the month and subsequently travelled to Scandinavia. During AUGUST the general distribution of pressure was normal. In SEPTEMBER pressure was in excess of the normal everywhere in the British Isles. The tracks of nearly all depressions lay to the north-west. A striking exception was that of a well developed secondary which appeared off Lands End on the evening of the 11th and travelling rapidly up the Channel was associated with torrential rain, more than 50mm. falling in parts of London. The general trend of the isopleths in OCTOBER was normal, but pressure was everywhere greatly in excess. Pressure was everywhere above the normal in NOVEMBER but the distribution was of an unusual type, the trend of the isopleths being north and south. The formation of a local area of high pressure south of Lincolnshire, indicated by broken lines on the pressure map for the month, is of interest and may be compared with a corresponding area of low temperatures in the same region. In DECEMBER the trend of the isopleths was

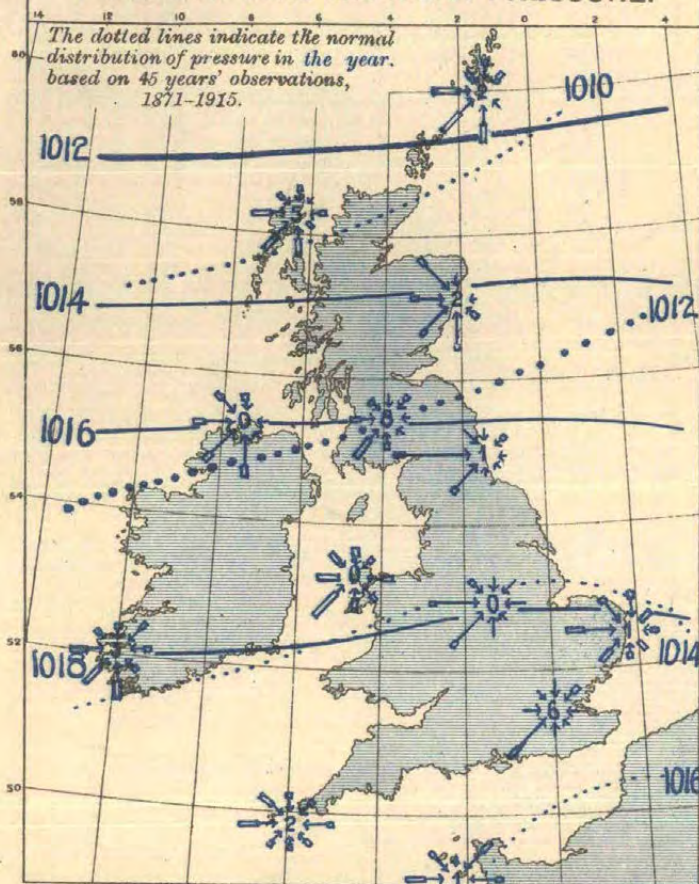
somewhat abnormal, and the usual south-westerly type was replaced by a west-north-westerly type. The gradient was much steeper than usual.

Temperature.—The only really cold weather in JANUARY occurred between the 11th and 16th. Apart from this brief interlude there was no cold weather at all, and day after day the temperature rose to abnormal levels, the maximum temperatures recorded at numerous stations, although equalled (mainly in 1916), having never before been exceeded in records, in some instances extending over 50 years. At Meltham (Yorks.), with the exception of January, 1916, which was a little warmer, it was the mildest January in 42 years; and at Ross-on-Wye the warmth of the nights was unparalleled during 45 years. A noteworthy feature of the weather in FEBRUARY was the high mean temperature, which was, however, very generally below that of January. There were indeed many more frosts. At Benson and Croydon, for instance, there were 15 and 13 days respectively on which the shade temperature fell below 273a compared with only 5 and 2 such days in January. At Nottingham in the latter month there were 19 days on which the maximum temperature rose above 283a, compared with only 3 such days in February. As in the two preceding months there was a marked absence of severe wintry weather over western Europe generally during MARCH. Brief incursions of Polar air occurred in the northern parts of the British Isles in the first week, and in the western parts on the night of the 28th but milder weather followed at once in each case. At Belper the mean temperature was 280.0a, and only once during 44 years has this been exceeded at this station. At Totland Bay (Isle of Wight) the nights were unusually warm, equal to those commonly experienced during the last week of April, and only one March (1912) at this station during 35 years has been warmer at night. In APRIL the mean monthly temperature was above the normal in all districts. The nights, however, were often very cold, and in most parts of the country the mean minimum temperature was below that for the previous January. Ground frosts also were very numerous at some of the inland stations, and much damage was done to vegetation and fruit blossoms. Except in Ireland north, which was slightly above the normal, and in Ireland south, which was normal, the mean temperature of MAY was above the normal in all districts. The mean temperature of JUNE, with the exception of Scotland east, where there was a slight deficiency, was also above the normal in all districts. JULY was a very warm month and the mean temperature was again above the normal in all districts. On the 10th and 11th the maximum temperature in parts of England reached 305a, and equally high temperatures were again recorded on the 19th. At Worksop (Notts.) the mean temperature for the month (291.6a) was higher than in any previous month in the past 42 years. At Southport it was the warmest July during 51 years. The mean temperature of AUGUST was above the normal in all districts in England and Wales, with the exception of the north-west, which was normal; but was below normal in all districts in Scotland and Ireland. In SEPTEMBER the mean temperature was above the normal in all districts. At Ipswich the mean (288.2a) was the highest during twenty years, except 288.4 in 1911. The night of the 9th was unusually warm and the temperature remained above 289a at many stations in the south and south-east of England. On the 8th and 9th a maximum of 302a was recorded at Raunds (Northants), the latter being the twenty-third day since January 1st with a temperature of 300a or above. The mean temperature in OCTOBER was much above the normal in all districts. On the 5th and 6th a maximum of 301a was recorded at Kew Observatory, and 300a on the 9th. These were the highest October readings ever recorded at Kew, the previous highest being 298a on October 4th, 1886. Abnormally high minima of 290a at Kew and of 289a at Falmouth occurred during the night of the 3rd-4th, and of 290a at Valencia during the night of the 5th-6th, minima which were records for the time of the year at each of these observatories. During the past 60 years the only year in Scotland with a warmer October was 1908. At Huddersfield it was the mildest October in a record of 50 years, and at Meltham (Yorks.) much the warmest in 43 years. At Southport it was much the warmest October since 1871. With the exception of Ireland north and south, and the English Channel, the mean temperature of NOVEMBER was below the normal in all districts. Frosts occurred on many nights in succession and were particularly severe on the 8th, when a screen minimum of 262a was recorded at Shotwick, near Chester. On the 10th and 13th 269a was registered at Kew, a value without precedent so early as November 10th at this Observatory. In DECEMBER the mean temperature was again above the normal in all districts and the month throughout was uniformly mild. At Aberdeen on the 8th the temperature rose to 287a, a reading which equalled the record value of December 15th, 1873. For the YEAR as a whole the mean temperature (See Table page 173) was above the normal in all Districts, the excess ranging from 0.7a in Scotland north and in Scotland east to 1.6a in the Midlands.

Precipitation.—The year was undoubtedly one of very unusual shortage of rainfall, but the area affected in an extreme degree was not very large. In the western half of Scotland, largely owing to the heavy rains of JANUARY, MARCH, and DECEMBER the total was above the normal at all stations, and over a large part of the Western Highlands there was an excess of more than 10 per cent. reaching 20 per cent. in places. A small area in the northern Pennines and isolated spots in Ireland also had more than their normal rainfall, but with these exceptions the year's fall was everywhere defective, the deficiency increasing in a marked manner towards the east and south. Except very locally so large a deficiency from the normal rainfall has not been experienced in the British Isles during any calendar year since comparable records have been available, a period of at least 70 years, and there is little doubt for a considerably longer time. In London, for example, and this was not by any means the driest district, unbroken records prove it to have been by far the driest year for a century and a half. JANUARY, MARCH, and AUGUST were the only months with appreciable general excess, though JULY was wet in Ireland, and DECEMBER in Scotland. The most noteworthy months of the year were FEBRUARY and JUNE for the British Isles as a whole, and more locally JULY and OCTOBER. February had less than a quarter of its normal practically everywhere in England and Wales as well as in the east of Scotland and part of the centre of Ireland. It was driest in South Wales where less than 5 per cent. of the normal fell. The only Februaries, for which comparable data exist, which appear to have been drier were in 1891 and 1895, but the difference was not great. JUNE was beyond doubt the driest of which any record exists, and had less than a quarter of the normal practically everywhere except in the north of Scotland, and less than 5 per cent. of the normal along the whole

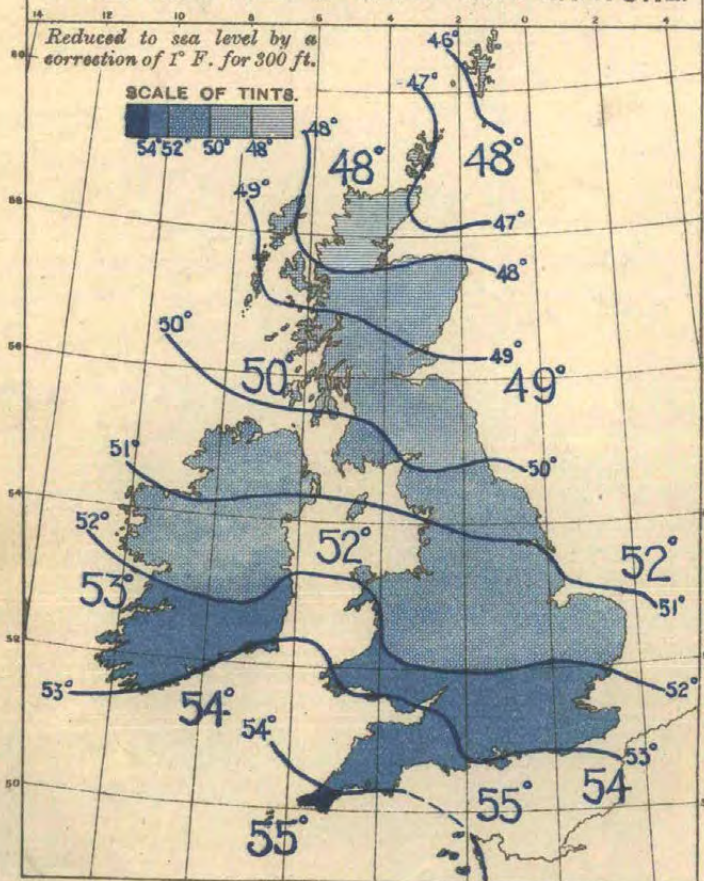
Continued on p. 173.

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



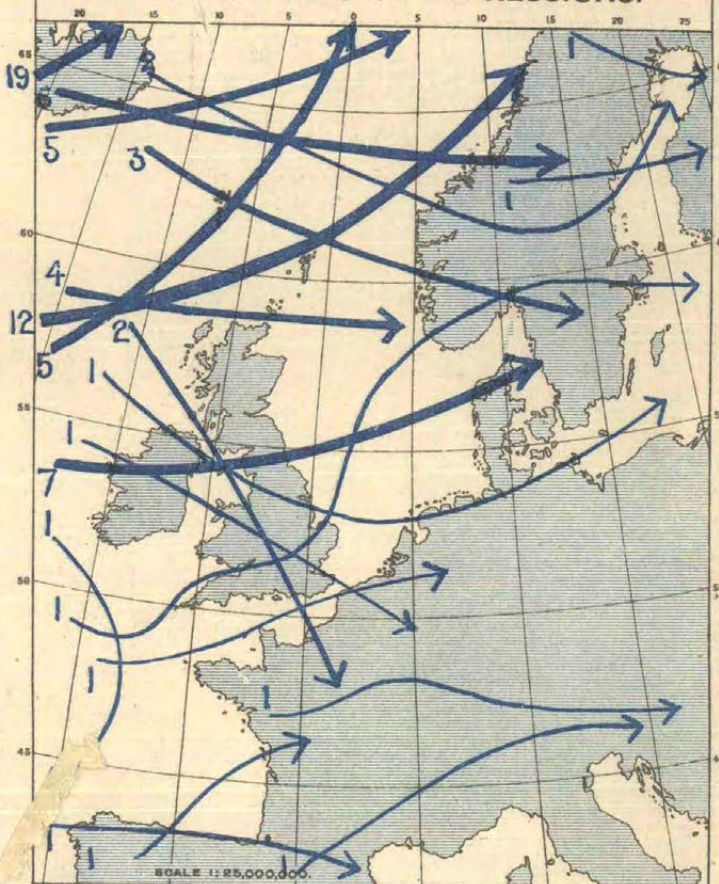
WIND ROSES. The arrows fly with the wind and indicate frequency and force, thus:
 LIGHT TO STRONG GALE
 30 OBS. 1 Inch = 1

3. DISTRIBUTION OF MEAN TEMPERATURE.



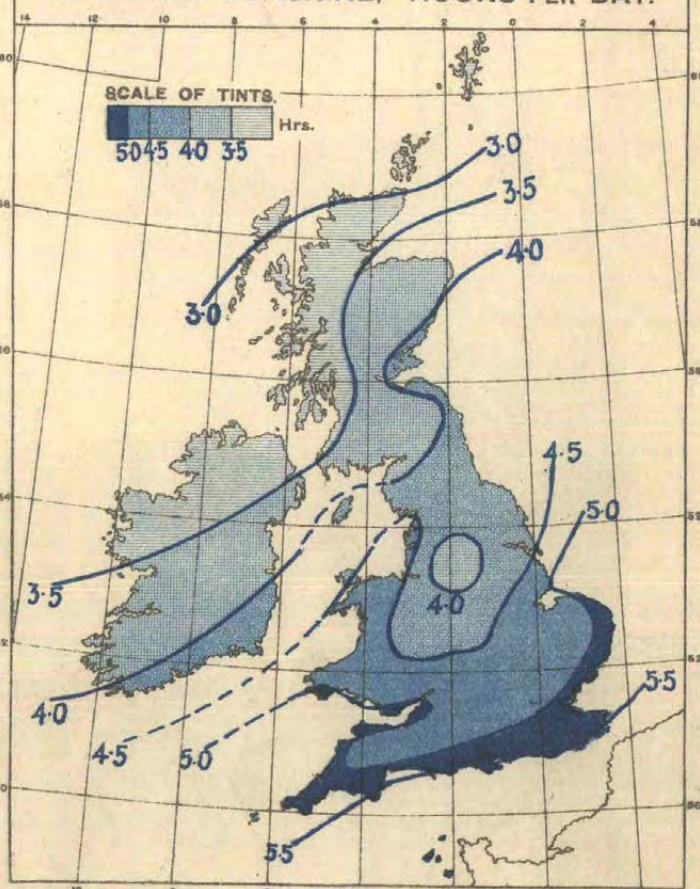
Sea temperatures are shown in large figures, thus 54°

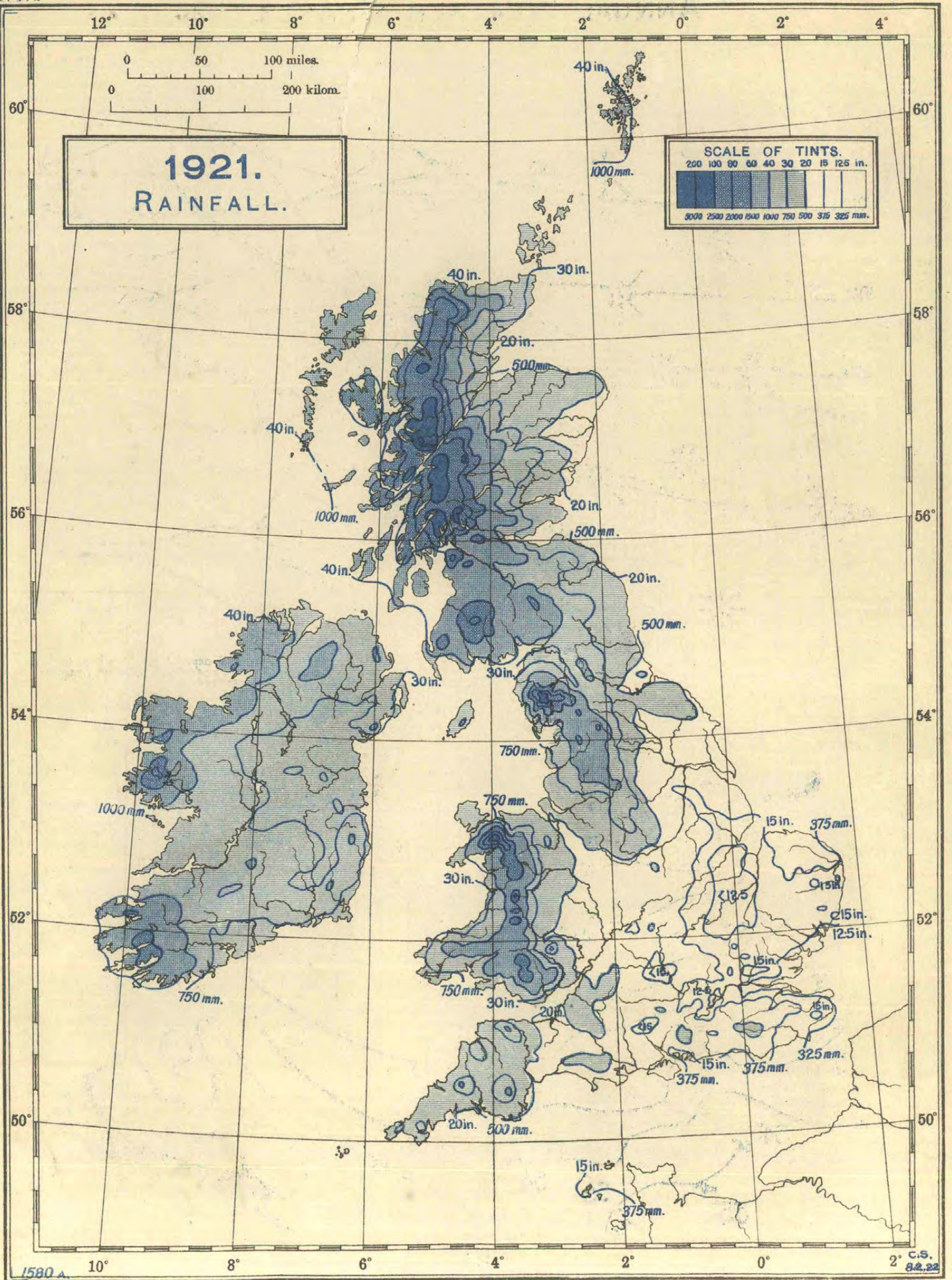
2. MOVEMENTS OF DEPRESSIONS.



The figures indicate the number of depressions with tracks approximating to those shown. Secondaries and some irregular paths have been omitted.

4. BRIGHT SUNSHINE, HOURS PER DAY.





of the south coasts of England, Wales, and Ireland, with no rain at all in parts of Sussex and Pembrokeshire. The drought of June was continued throughout JULY in the south-east of England, where the month was nearly as dry as its predecessor, but to the north-west considerably more rain fell, and in Ireland and the western Highlands the month definitely terminated any tendency to rain shortage. The dryness of OCTOBER was also local, a deficiency of 50 per cent. being confined to the south of England and Wales and parts of the East Coast. In the extreme south less than 25 per cent. of the normal fell, and in places the month was the driest October known to have occurred. (Further remarks on the precipitation of the year will be found in an article entitled the "Rainfall of 1921" printed in the Meteorological Magazine for January, 1922, where also is given a map showing the Thames Valley Rainfall for the year. Additional notes supplied by Observers are also given in the monthly issues of the Monthly Weather Report). For the whole year (See Table I) except in Scotland north and in Scotland west where there was an excess of 64mm. and 41mm. respectively, the yearly totals were below the normal in all districts, the deficiency ranging from 389mm. in England south-west to 113mm. in Scotland east and Ireland north.

Sunshine.—The mean daily amount of sunshine varied from 2.98 hr. in Scotland north to 5.53 hr. in the English Channel, the differences from the normal ranging from -0.07 hr. in Scotland north to +0.61 hr. in England east. At Totland Bay (Isle of Wight) the smallest amount of sunshine (38 hours) for any January at this station was recorded. At Aberdeen, where the daily mean was 7.52 hr., it was the sunniest MAY since 1882. In OCTOBER at Worksop (Notts.) the month was sunnier than any previous October during 40 years. During NOVEMBER the insolation varied considerably in different districts, and was largely affected by the prevalence of fog, particularly in the vicinity of large towns, an effect clearly shown by the sunshine map for this month.

Snow.—Sleet and snow were infrequent during JANUARY in some parts of Scotland. The only snow of any significance occurred between the 11th and 16th. It is noteworthy that at such a high level station as Sheepstor (Devon), no snow fell throughout the month, an experience quite unique for January in the history of this station. In FEBRUARY but little snow was experienced, and in MARCH it fell during the early and late parts of the month, the most wide-spread fall being that of the 5th. Between the 15th and the 20th of APRIL snow fell in many places in the British Isles, but the amounts were not large. A severe snowstorm set in towards the north of Scotland, and

on the borders on the 14th and continued in some districts on the 15th. Another snowstorm on the night 17th-18th was experienced mainly in east Scotland, but the snow quickly disappeared. Snow, sleet and hail occurred in Scotland on MAY 3rd and 4th, and at Balmoral on the morning of the latter day the snow lay to a depth of two inches. On the evening of JUNE 20th a few flakes of sleet were observed at Aberdeen; and there was snow in a few places in Scotland between OCTOBER 20th and 24th. Northerly winds in the rear of a depression on NOVEMBER 6th were associated with showers of snow, hail and sleet, and snow fell in Scotland in various districts on the 3rd and between the 6th and 8th. Local falls of snow were experienced during DECEMBER, but not to any great depth.

Thunderstorms were reported in every month, the most wide-spread storms being those of APRIL 23rd, MAY 12th, JUNE 25th and 26th, JULY 15th, and SEPTEMBER 11th-12th.

Hail.—Although reported in most months was comparatively rare and was most frequent in APRIL.

Fog.—In JANUARY there was occasional fog on the south-west coasts and on the high ground near the English Channel, and on the night of the 15th-16th there was a dense fog in London. There was a good deal of fog between the 2nd and 4th of FEBRUARY, and morning fog at a few stations between the 20th and 24th. Fog was almost entirely absent during MARCH. In MAY sea fog was experienced on the south-west coasts from the 11th to the 13th, and in the English Channel on the 13th and 14th. During JULY fog was fairly frequently reported on the western coasts and was persistent on the north-east coast from AUGUST 18th to 23rd, extending as far south as Yarmouth from the 21st to the 24th. The Irish Sea was covered by a thick fog on the 19th. Morning mists and fog were prevalent in SEPTEMBER, and on the 19th a dense gloom was experienced over a wide area. A thick fog continued all day at Scilly and Pembroke on the 22nd. Fog was very prevalent in NOVEMBER, a fog which was very thick locally on the 27th and 28th being the thickest and most persistent of recent years.

Aurora was reported in every month but June, the most widely seen display being that of May 13th, which was seen as far South as Okehampton, Devon.

TABLE I.—DISTRICT VALUES FOR THE WHOLE YEAR, 1921. [1908].

DISTRICTS.	AIR TEMPERATURE.						EARTH TEMPERATURE.				RAINFALL.			SUNSHINE.			CLOUD Mean Amount (0-10).			PRESSURE AT MEAN SEA LEVEL.				
	Highest.	Lowest.	Means of				At 1 ft.	Devia- tion from Aver- age.	At 4 ft.	Devia- tion from Aver- age.	Total.	Devia- tion from Nor- mal.	Number of Days.	Daily Mean	Devia- tion from Nor- mal.	Per- cent.	I.	II.	III.	High- est.	Date.	Low- est.	Date.	
			Daily Max.	Daily Min.	Daily Mean.	Devia- tion from Nor- mal.																		
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	
0. SCOTLAND, NORTH	81	16	200+ 84.4	200+ 78.2	200+ 81.3	+0.7	200+ 81.6	-0.2	—	—	54.15	1376	+ 64	236	2.98	-0.07	24	7.7	7.5	7.2	1044	Feb.10	959	Dec.20
Eastern.																								
1. SCOTLAND, EAST	... 88	5	85.2	77.4	81.3	+0.7	82.2	—	82.2	+0.8	26.77	681	-113	193	4.01	+0.38	33	6.8	6.1	6.7	1043	Feb.10	977	{ Jan.18 Mar.28
2. ENGLAND, N.E.	... 92	15	86.8	79.3	83.1	+1.5	83.1	+1.1	83.3	+1.0	18.27	464	-171	152	4.43	+0.50	36	6.3	6.9	6.2	1044	Feb.10	985	Jan.12
3. ENGLAND, EAST	... 94	19	87.8	79.4	83.6	+1.5	84.0	+1.1	84.3	+0.9	13.70	348	-262	130	4.93	+0.61	40	6.5	6.2	5.4	1044	Feb.26	986	Nov. 6
4. MIDLAND COUNTIES	93	12	87.8	79.1	83.4	+1.6	83.6	+1.2	83.6	+0.9	18.51	471	-213	144	4.39	+0.57	36	6.6	6.8	5.8	1045	Feb.27	986	Jan.31
5. ENGLAND, S.E.	... 93	14	88.2	80.1	84.2	+1.4	84.6	+1.2	84.7	+1.1	14.12	360	-349	124	5.07	+0.58	42	6.3	6.6	5.9	1046	Feb.27	988	Jan.31
Western.																								
6. SCOTLAND, WEST	... 84	15	85.9	79.1	82.5	+1.0	82.8	+0.7	82.8	+0.3	49.24	1251	+ 41	216	—	—	—	7.5	7.9	7.1	1045	Feb.10	983	May30
7. ENGLAND, N.W.	... 90	11	86.6	79.9	83.3	+1.3	83.3	+1.1	83.3	+0.8	30.33	771	-130	179	4.35	+0.46	36	7.0	6.7	6.5	1045	Feb.26	982	Jan.12
8. ENGLAND, S.W.	... 90	11	87.7	80.5	84.1	+1.4	85.2	+1.4	85.3	+0.9	24.07	612	-389	159	4.76	+0.48	39	6.3	6.1	5.5	1046	Feb.27	987	Jan.12
9. IRELAND, NORTH	... 86	24	86.4	80.2	83.3	+1.4	83.9	+1.1	83.7	+0.7	34.03	864	-113	221	3.45	-0.06	28	7.2	6.8	6.6	1046	Feb.26	983	{ Mar.10 Dec.19 Dec.30
10. IRELAND, SOUTH	... 90	20	87.6	80.8	84.2	+1.5	84.4	+1.2	84.2	+0.9	32.83	834	-197	207	3.95	-0.01	32	7.1	7.7	6.5	1047	Feb.26	983	Mar.10
11. ENGLISH CHANNEL...	87	30	88.2	82.7	85.4	+1.3	86.2	+1.4	86.2	+1.3	18.39	467	-381	161	5.53	+0.41	45	6.4	6.1	4.9	1045	Feb.27	989	Jan.31
Mean : DISTRICTS 1-10	... 94	5	87.0	79.6	83.3	+1.3	83.7	+1.1	83.7	+0.8	26.19	666	-190	173	4.37	+0.39	36	6.8	6.8	6.2	1047	—	977	—
	°F.	°F.	a.	a.	a.	a.	a.	a.	a.	a.	in.	mm.	mm.		hr.	hr.	%				mb.		mb.	

Mean Values for Districts of maximum, minimum, and mean temperature, rainfall, and sunshine are computed from the data for the representative stations of the Weekly Weather Report. The mean temperature for districts is computed from the mean maximum and minimum temperatures (see Guide to the Weekly Weather Report). The mean values for districts of amount of cloud and for earth temperature are computed from the data for all stations for which these values are published. The extreme values of pressure are obtained from the records at the stations of the Daily Weather Report. Normals for air temperature, rainfall, and sunshine are for 35 years, 1881-1915. Averages for earth temperature are for years 1907-1915. Except the highest and lowest district values of air temperature, which are expressed in degrees Fahrenheit, values of air and earth temperature in this Table are given in degrees Absolute.

TABLE II.—SUMMARY OF AUTOGRAPHIC RECORDS OF WIND—THE YEAR 1921. [1914].

The Summary showing the duration of Gales, High Winds, Fresh and Moderate Winds, and Calms and Light Airs, with Extreme Velocities, at anemograph stations, will be found as Table XII, p. 190, in the Wind Section.

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

[illegible]

TABLE III (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

[illegible]

† At Oxford the earth thermometers are at depths of $6\frac{1}{2}$ in. and 3 ft. $6\frac{1}{2}$ ins. The second normal for rainfall covers 106 years.

TABLE III (continued).—SUMMARY of the RECORDS of TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.	Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.						
			Means of		Mean of A and B.	Deviation from Normal.	Absolute Maximum and Minimum. For Dates see Table V.	1 ft.	4 ft.	Total Fall.	Deviation from Normal.	Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.		Per Cent.						
			A	B								Amount.	Date.										Daily Mean.	Deviation from Normal.							
			Max.	Min.																											
4. MIDLAND COUNTIES—con.																															
Stafford.	Cheadle	9	9	9	646	56.6	42.3	49.5	+2.5	89	23	—	—	22.94	583	—227	32	28 Aug.	145	110	—	—	—	—	68	—	—	—	—	—	—
	Mayfield	9	9	9	374	57.3	40.7	49.0	—	89	17	—	—	24.76	628	—	39	3 Oct.	160	106	13	3	15	7	—	54	5	4.27	—	35	
Shropshire.	Roden, Well'n	9	9	9	207	58.2	40.3	49.3	—	92	14	—	—	18.66	474	—	30	3 Oct.	144	97	—	—	—	—	—	—	—	—	—	—	—
	Wistanstow	21	21	9	481	58.4	41.3	49.9	+1.8	88	12	—	—	19.43	495	—265	18	3 Oct.	153	104	14	5	6	4	—	79	5	—	—	—	
Worcester.	Malvern	17	—	9	377	58.6	45.3	52.0	—	87	22	52.2	52.6	18.53	469	—	21	10 Aug.	139	94	3	1	3	7	—	45	0	4.85	—	40	
	Sparkhill	7	13	7	424	59.5	42.8	51.2	—	91	20	—	—	19.29	491	—	21	3 Oct.	142	95	13	5	12	8	—	100	11	—	—	—	
	Tenbury	21	21	9	313	59.3	41.3	50.3	+2.0	88	13	51.4	—	18.20	463	—123	18	10 Aug.	141	95	14	7	11	8	—	88	23	—	—	—	
Hereford.	Bromyard	9	9	9	392	58.7	41.6	50.2	—	87	14	51.5	51.3	18.94	480	—	20	10 Aug.	136	91	7	5	4	4	—	61	1	—	—	—	
	Ross	18	—	7	223	59.9	43.4	51.7	+2.3	90	17	52.5	52.7	16.24	414	—304	26	11 Sept.	128	88	6	3	11	8	46	78	13	4.70	—	38	
Gloucester.	Cheltenham	9	9	9	214	60.0	44.4	52.2	+3.3	90	22	—	—	15.57	393	—280	27	11 Sept.	118	86	3	0	4	2	—	62	2	4.70	—	39	
	Overcourt	9	9	9	147	60.2	44.2	52.2	—	90	20	—	—	20.21	512	—	30	11 Sept.	146	109	—	—	—	—	—	—	—	—	—	—	
	Clifton	9	9	9	225	59.5	44.9	52.2	+2.0	89	25	—	—	24.97	635	—226	39	11 Sept.	146	112	2	1	0	1	—	29	1	5.16	—	42	
5. ENGLAND, S.E.																															
London.	g Camden Sq.	9	9	9	110	62.4	44.8	53.6	+3.0	93	24	52.4	52.4	14.59	370	—252	50	11 Sept.	115	80	—	—	—	—	—	—	—	—	—	—	—
	East Ham	9	9	9	15	60.9	43.5	52.2	—	92	24	—	—	13.03	331	—	35	11 Sept.	109	81	—	—	—	—	—	—	—	—	—	—	—
	Enfield	9	9	9	148	60.6	43.3	52.0	—	92	22	—	—	51.7	16.11	416	—	57	11 Sept.	133	85	8	0	5	7	—	58	7	4.65	—	38
	g Greenwich	9	9	9	149	61.7	43.7	52.7	+2.6	94	25	51.3	51.2	12.57	318	—278	33	11 Sept.	120	80	4	0	3	10	16	95	3	4.81	+0.76	39	
	Hampstead R.	21	21	9	450	59.0	44.5	51.8	—	92	26	—	—	15.50	393	—	52	11 Sept.	125	87	12	1	3	10	—	9	4.76	—	39		
	Richmond (Kew Obs)	24	24	24	18	60.2	44.8	52.5	+2.8	89	24	52.0	52.3	12.16	310	—296	20	11 Sept.	104	69	4	0	5	15	65	73	0	4.55	+0.51	37	
	Kensington P.	9	9	9	80	61.4	45.4	53.4	—	91	27	52.6	52.8	14.36	365	—	41	11 Sept.	120	80	2	0	0	5	—	56	2	—	—	—	
	Tottenham †	21	21	9	51	60.7	45.7	53.2	—	91	25	—	—	54.7	13.73	348	—	53	11 Sept.	97	76	2	0	3	8	—	6	4.43	—	36	
	Westminster	9	9	9	27	61.5	46.1	53.8	+3.3	92	26	—	—	12.40	317	—251	37	11 Sept.	115	72	2	0	2	9	—	61	—	4.34	+1.04	36	
	Kent.	Belvedere	9	9	9	14	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
		Bexley Heath	21	21	7	161	60.7	43.9	52.3	—	93	24	53.0	52.7	14.07	360	—	28	11 Sept.	128	78	5	0	0	8	—	53	3	—	—	—
Biggin Hill		18	—	7	600	57.6	44.1	50.9	—	89	25	—	—	17.32	440	—	23	11 Sept.	134	83	16	1	17	14	71	—	22	—	—	—	
Canterbury		9	9	9	40	60.2	44.7	52.5	—	93	23	53.6	54.1	11.88	302	—	22	19 Oct.	105	76	—	—	—	—	—	50	—	—	—	—	
Deal		17	—	9	18	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Dungeness		18	—	7	21	57.5	46.7	52.1	+2.4	81	25	—	—	10.97	280	—339	13	2 May	112	75	5	0	—	—	—	—	—	—	—	—	—
Folkestone		17	—	9	101	58.9	46.1	52.5	—	84	27	—	—	53.6	12.96	330	—	15	13 Jan.	102	76	2	1	5	5	—	11	5.33	—	44	
Isle of Grain		18	—	7	20	58.9	43.9	51.4	—	90	21	—	—	7.94	202	—	12	25 Feb.	96	51	4	0	4	9	54	77	6	5.23	—	43	
Lympe		18	—	7	350	57.1	44.3	50.7	—	85	21	—	—	51.3	14.15	361	—	18	13 Jan.	121	75	10	2	5	9	54	71	12	5.61	—	46
Margate		17	—	9	51	57.8	47.7	52.8	+2.7	87	29	54.4	55.0	9.28	236	—342	17	2 Nov.	95	60	2	1	3	6	—	21	6	4.92	+0.58	40	
Ramsgate		9	9	9	168	57.5	45.8	51.7	—	85	28	—	—	10.93	278	—	21	20 Oct.	105	68	5	0	0	2	—	0	5.48	+0.66	45		
Sevenoaks	9	9	9	509	59.6	43.9	51.8	—	92	25	51.4	51.0	17.53	447	—316	18	25 Feb.	125	80	4	3	9	10	—	59	1	5.27	—	43		
Surrey.	Tunbridge W	17	—	9	354	60.0	43.6	51.8	+2.8	91	24	52.6	52.7	16.45	419	—355	19	20 Oct.	111	80	7	0	3	12	—	107	6	4.92	+0.44	40	
	Addington	9	9	9	472	58.4	42.5	50.5	—	87	25	—	—	14.48	368	—	22	11 Sept.	130	91	—	—	—	—	—	—	—	—	—	—	—
	Croydon	18	—	7	244	59.9	44.1	52.0	—	90	21	—	—	12.50	317	—	22	11 Sept.	121	76	7	0	9	14	67	61	0	—	—	—	—
	Wallington	9	9	9	140	60.4	44.1	52.3	—	92	21	52.8	53.7	13.01	330	—	27	11 Sept.	136	80	3	0	4	17	—	115	3	—	—	—	—
	Wisley	9	9	9	150	61.1	42.8	52.0	+2.9	91	19	52.2	52.1	11.60	295	—319	24	11 Sept.	122	75	2	0	0	5	—	135	0	4.86	+0.59	40	
Sussex.	Ardingly	9	9	9	439	59.8	41.8	50.8	—	91	24	—	—	20.12	511	—	20	23 Aug.	133	88	3	1	3	11	—	88	7	—	—	—	—
	Bognor	9	9	9	20	58.6	46.5	52.6	+2.6	88	25	—	—	52.7	15.24	388	—271	18	16 Nov.	121	78	4	0	4	10	—	37	0	5.49	+0.48	45
	Brighton	17	—	9	31	58.7	47.0	52.9	+2.3	87	29	—	—	53.9	14.97	381	—324	16	23 Aug.	116	75	2	0	4	5	—	20	9	5.31	+0.50	44
	Eastbourne	17	—	9	35	58.4	46.8	52.6	+2.2	84	27	54.0	54.5	15.79	401	—380	22	4 Nov.	122	85	2	0	2	3	—	39	6	5.65	+0.77	46	
	Littlehampton	17	—	9	18	58.3	45.7	52.0	—	89	25	—	—	12.57	318	—	15	16 Nov.	107	67	3	1	2	3	—	3	5.32	—	44		
	Midhurst	9	9	9	480	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
	St. Leonards	17	—	9	178	58.2	47.0	52.6	+2.6	85	26	53.7	53.4	14.19	362	—358	15	4 Nov.	142	82	5	0	4	9	—	31	11	5.60	+0.68	46	
	Seaford	9	9	9																											

TABLE III (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS. YEAR 1921.

DISTRICT, COUNTY AND PLACE.		Terminal Hours of Observation.		Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.						Earth Temperature.		RAINFALL.				WEATHER. Number of days.										BRIGHT SUNSHINE.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
					Means of		Deviation from Normal.	Absolute Maximum and Minimum. For Dates see Table V.	Total Fall.	Deviation from Normal.			Most in a day.		Precipitation.	Precipitation 1 min. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.		Per Cent.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	
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		Max.	Min.	Max.	Min.	Mean of A and B.	Max.	Min.	Mean of A and B.	1 ft.	4 ft.	in.	mm.	mm.	mm.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												</

TABLE III. (continued).—SUMMARY OF THE RECORDS OF TEMPERATURE, RAINFALL and SUNSHINE, and of WEATHER OBSERVATIONS.

DISTRICT, COUNTY AND PLACE.	Terminal Hours of Observation.			Height of Station above Mean Sea Level.	AIR TEMPERATURE IN DEGREES FAHRENHEIT.							Earth Temperature.		RAINFALL.				WEATHER. Number of days.								BRIGHT SUNSHINE.				
					Means of		Deviation from Normal.	Absolute Maximum and Minimum. For Dates see Table V.		Total Fall.	Deviation from Normal.			Most in a day.		Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Hours per day.					
	A	B	Amount.		Date.	Daily Mean.						Deviation from Normal.	Per Cent.																	
	Max.	Min.	Rain.		Max.	Min.						Mean of A and B.	1 ft.	4 ft.	in.										mm.	mm.	mm.	Precipitation.	Precipitation 1 mm. or more.	Snow.	Snow lying.	Hail.	Thunderstorm.	Fog.	Ground Frost.	Gale.	Daily Mean.	Deviation from Normal.	Per Cent.
9. IRELAND, N.																														
Sligo.	Markree Cas.	21 21 9	122	57.3	43.0	50.2	+2.5	82	25	52.3	51.4	40.89	1037	—	62	28	9 Jan.	241	185	8	2	33	8	—	82	10	3.30	—0.16	27	
Mayo.	Blacksod Pt.	18—7 7	10	—	—	—	—	—	—	—	—	—	—	—	—	—	30 July	—	—	—	—	—	—	—	—	—	—	—	—	
	Mallaryny	9 9 9	120	56.8	45.7	51.3	—	84	29	—	—	66.07	1680	—	83	—	9 Oct.	235	213	2	1	21	4	—	29	—	3.35	—	27	
Donegal.	Dunfanaghy	21 21 9	50	55.1	45.1	50.1	—	81	31	—	—	42.67	1084	—	24	—	15 Nov.	246	196	4	1	10	2	—	—	17	—	—	—	
	Malin Hd.	18—7 7	71	53.4	46.1	49.8	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Antrim.	Lisburn	9 9 9	206	57.4	41.5	49.5	—	86	25	—	—	34.22	869	—	44	—	21 Oct.	197	149	8	5	1	0	—	—	6	—	—	—	
Down.	Donaghadee	18—7 7	35	55.5	45.5	50.5	+2.2	78	28	—	—	30.20	768	—	25	33	28 July	209	144	8	0	8	3	26	—	1	—	—	—	
Armagh.	Armagh	21 21 9	204	57.0	43.6	50.3	+2.4	85	24	51.3	50.9	28.48	722	—	85	29	5 Nov.	221	148	13	4	14	3	—	48	0	3.60	+0.06	30	
Longford.	Newtownforbes	21 21 9	161	57.3	42.6	50.0	—	84	—	51.5	51.2	29.96	762	—	30	—	21 Oct.	200	159	3	1	6	4	—	11	—	—	—	—	
10. IRELAND, S.																														
Dublin.	Baldonnell	18—7 7	282	57.3	43.6	50.5	—	83	20	—	—	25.92	658	—	41	—	28 July	191	133	6	2	10	4	26	56	7	3.89	—	32	
	City	21 21 9	54	57.6	46.5	52.1	+2.1	82	29	—	—	22.74	578	—	117	38	27 July	188	120	6	0	14	6	—	23	15	—	—	—	
	Glasnevin	21 21 9	55	58.4	44.3	51.4	+2.8	84	25	—	—	24.91	633	—	79	37	27 July	211	128	8	0	14	2	—	64	21	—	—	—	
	Phoenix Pk.	21 21 9	155	58.0	42.6	50.3	+2.3	85	22	—	—	25.99	661	—	44	29	10 May	205	135	4	0	8	3	—	61	19	4.09	—0.04	34	
	Trin. Coll.	21 21 9	12	58.2	45.2	51.7	+1.8	84	29	52.6	52.3	21.75	553	—	109	37	27 July	173	111	1	0	7	2	—	—	2	—	—	—	
	Ranelagh	21 21 9	61	58.2	44.9	51.6	—	87	27	—	—	21.74	555	—	37	—	27 July	173	110	—	—	—	—	—	—	7	—	—	—	
Wicklow.	Newcastle	21 21 9	256	57.6	44.7	51.2	—	83	29	—	—	31.19	791	—	41	—	27 July	168	131	—	—	—	—	—	—	—	—	—	—	
Kildare.	Clongowes Wd.	9 9 9	246	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
King's Co.	Birr Castle	18—7 7	175	57.5	44.2	50.9	+2.6	86	23	52.4	52.1	30.24	768	—	61	34	28 July	212	148	4	1	14	3	52	67	1	3.66	—0.02	27	
Queen's Co.	Mountmellick	9 9 9	252	58.5	43.1	50.8	—	87	25	—	—	34.30	871	—	68	—	28 July	180	148	—	—	—	—	—	—	—	—	—	—	
Wexford.	Newtownbarry	9 9 9	195	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kilkenny.	Kilkenny	9 9 9	153	58.8	43.7	51.3	+2.6	86	21	—	—	27.11	687	—	155	44	28 July	178	127	2	0	4	4	—	—	9	—	—	—	
Waterford.	Waterford—	9 9 9	137	59.0	45.5	52.3	+2.4	84	27	—	—	30.67	779	—	210	55	29 July	170	131	—	—	—	—	—	—	—	—	—	—	—
	Gortmore	21 21 9	16	59.2	44.7	52.0	—	84	—	—	—	32.38	823	—	64	—	28 July	190	136	—	—	—	—	—	—	—	—	—	—	—
	Training Coll.	21 21 9	542	57.9	44.1	51.0	—	85	25	—	—	34.81	885	—	49	—	14 July	192	126	6	0	8	7	—	57	5	4.35	—	36	
	Seskin, Carrick on-Suir.	21 21 9	542	57.9	44.1	51.0	—	85	25	—	—	34.81	885	—	49	—	14 July	192	126	6	0	8	7	—	57	5	4.35	—	36	
Limerick.	Foynes	9 9 9	50	58.3	46.0	52.2	+2.4	87	28	—	—	36.11	917	—	84	43	4 Feb.	219	151	—	—	—	—	—	—	—	—	—	—	
	Mungret Coll.	9 9 9	55	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Kerry.	Killarney	9 9 9	174	60.1	46.6	53.4	+3.3	90	26	—	—	40.51	1029	—	361	44	4 Feb.	223	156	—	—	—	—	—	—	—	—	—	—	
	Cahiriveen	24 24 24	30	57.1	48.1	52.6	+1.8	80	29	—	—	46.15	1172	—	242	34	9 Nov.	230	168	0	0	18	4	3	9	4	3.83	—0.13	29	
	(Val. Obs.)	9 9 9	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	
Cork.	Ballinacurra	9 9 9	24	58.6	45.1	51.9	+1.8	81	—	—	—	25.92	660	—	365	25	7 Feb.	189	111	2	0	8	2	—	20	4.23	+0.11	35		
	Roche's Pt.	18—7 7	32	57.8	48.2	53.0	+2.5	79	32	—	—	29.10	740	—	323	30	28 July	235	125	2	1	3	1	35	—	6	—	—	—	
11. ENGLISH CHANNEL.																														
Guernsey.	Grange	21 21 9	173	59.3	48.7	54.0	+2.0	82	31	55.8	55.8	17.66	449	—	477	20	16 Nov.	171	93	2	0	5	9	—	32	5	5.95	+0.72	45	
Jersey.	St. Aubins	18—7 7	25	60.0	49.2	54.6	+2.4	87	30	—	—	15.88	404	—	447	23	16 Nov.	126	95	1	0	2	6	7	—	1	5.71	+0.47	44	
Scilly.	St. Mary's	18—7 7	131	58.6	50.3	54.5	+2.3	82	37	—	—	21.62	548	—	261	22	13 Oct.	187	116	0	0	2	1	58	—	7	4.93	+0.09	37	
GIBRALTAR...	...	18—7 7	44	70.2	57.9	64.1	—0.3	91	42	—	—	38.89	988	+	94	109	13 Nov.	74	66	0	0	4	16	6	0	11	—	—	—	—
MALTA	...	18—7 7	194	69.8	60.9	65.4	—	99	44	—	—	18.64	473	—	37	—	23 Apl.	86	—	—	—	—	—	—	—	—	—	—	—	—

TABLE III. (a).—

ADDITIONAL VALUES OF SUNSHINE
YEAR, 1921.

DISTRICT AND STATION.	Daily Mean.	Deviation from Normal.	Per Cent.
5. ENGLAND, S.E.			
Broadstairs ...	5.52	+0.73	45
Hove ...	5.54	—	45
Watergate ...	5.16	—	42
LONDON, Bunhill Row ...	4.00	+0.81	33

TABLE III. (b).—RIVER TEMPERATURE.

	Highest.	Lowest.	Mean.	Deviation from Normal.
Belper (R. Derwent) 9 h	68	38	52.2	+2.5

Standard of Time.—As a rule, observations are made in all parts of the British Islands according to Greenwich Mean Time.

At the following stations Local Mean Time is used. The number of minutes after Greenwich Time is shown in brackets. Birmingham (7), Douglas (20), Blackpool (13), Darwen (10), Southport (12), Welshpool (12), Ashburton (15), Plymouth (15), Torquay (15), Penzance (22), Dunfanaghy (30), Armagh (30), Lisburn (30), Trinity College and Phoenix Park (30), Newcastle, Co. Wicklow (30), Clongowes Wood (30), Kilkenny (30), Cahir (30), Ballinacurra (30).

Time in this report is referred to G.M.T. "Summer Time" is not used explicitly, but at certain stations the hours of observation vary in the course of the year. For such stations the winter hours are given in the annual tables. For the summer hours reference should be made to the appropriate months.

Temperature.—The air temperature is obtained from thermometers placed in louvered screens except at stations marked *g*, where Glaisher stands are in use. The Maximum and Minimum Thermometers are read at the hour of morning observation at stations marked *a*, and at the hour of evening observation at stations marked *p*. The extremes at the observatories marked *n*, are derived from Thermograms and refer to the calendar day 0–24h. G.M.T.

Rainfall.—At the observatories marked *n*, the amounts are for the calendar day, at other stations for the 24 hours commenced at the time of morning observation.

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 night is counted as a "Night of Ground Frost" if the minimum on the grass has sunk to 30° or less.

Aberdeen, Eskdalemuir, Richmond, Cahireiveen, Greenwich.—The figures quoted in the second line assigned to these observatories in the columns for Mean Air Pressure 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 now taken at standard depths 1 ft. and 4 ft.

TABLE IV.—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours
at certain Stations during the Year 1921.

DISTRICT, COUNTY AND PLACE.			Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.																	CLOUD (0-10.)					WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
					Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.																	Mean Amount.			No. of days of Clear Sky.	Overcast.	Number of Observations adjusted to a total of 1095 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																					
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* In the column for pressure at station level the first figure is omitted if it is 1. In the column for pressure at sea level the initial 9 or 10 is omitted.

Mean Air Pressure is expressed in millibars. 1 millibar = 100 dynes per cm². = .029531 mercury-inches. Mean Values at sea level in the British Isles always lie between 950 and 1050 mb., so that the initial 9 or 10 can be omitted. The correction for latitude is an essential part of the expression of pressure in millibars. 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. The chart of Mean Pressure is drawn from the corrected values.

Hygrometer.—The values are obtained from the monthly means of the dry and wet bulb readings. The vapour pressure is expressed in millibars. At certain stations the vapour pressure and the relative humidity are the results obtained from the daily values. These stations are indicated by the letter H.

Cloud.—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. It should be noted that if observations are recorded only twice a day a "day of clear sky" is one on which the sky is clear or nearly clear at each of those observations; if observations are recorded three times a day, a "day of clear sky" is one on which the sky is clear or nearly clear at all three observations so that the figures for stations with two and three observations are not directly comparable.

Wind Summaries.—The results given under Wind are based on the observations at fixed hours. At Deerness, Aberdeen, Cahirciveen, Richmond 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 Eskdalemuir and Southport the equivalent values are obtained from a Dines Pressure Tube Anemometer. At Greenwich a Robinson Anemometer is used. (See Introduction.)

TABLE IV (continued).—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the Year, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)				WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of		Number of Observations adjusted to a total of 1095 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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TABLE IV. *continued.*—SUMMARY of the OBSERVATIONS of PRESSURE, TEMPERATURE, HUMIDITY, CLOUD, and WIND at fixed hours at certain Stations during the YEAR, 1921.

DISTRICT, COUNTY AND PLACE.		Hours of Observation.	Height of Barometer above Mean Sea Level.	MEAN AIR PRESSURE.*			HYGROMETER.												CLOUD (0-10.)			WIND.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																													
				Station Level.	Deviation from Normal.	Mean Sea Level.	I = Morning; II = Afternoon; III = Evening. See Column 1 for exact hours.												Mean Amount.			No. of days of	Number of Observations adjusted to a total of 1095 for the month.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
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7. ENGLAND, N.W.				mb.	mb.	mb.	°F.	°F.	°F.	°F.	°F.	°F.	mb.	mb.	mb.	%	%	%																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	</

TABLE V [1913].—WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT in the YEAR at each STATION.

DISTRICTS AND STATIONS.				Warmest Day.		Warmest Night.		Coldest Day.		Coldest Night.	
				Highest Maximum and Date.		Highest Minimum and Date.		Lowest Maximum and Date.		Lowest Minimum and Date.	
				Max.	Min.	Max.	Min.	Max.	Min.	Max.	Min.
				ft.		°F.		°F.		°F.	
0. SCOTLAND, N.											
Shetlands.	Baltasound	...	9 9 9	31		July 18	68	July 8	54	Jan. 23	31
	Lerwick	...	18—7 7	54		Apr. 29, July 18, Aug. 23	62	Sept. 7	54	Mar. 6, Nov. 7	32
Orkneys.	Deerness	§	21 21 9	160		July 18	69	July 8, 10, Sept. 7	54	March 7	34
	Kirkwall	...	9 9 9	100		—	—	—	—	—	—
Hebrides.	Castlebay	...	18—7 7	37		July 14, Aug. 17	67	July 15, 16	59	March 6	36
	Stornoway	§	18—7 7	51		July 17	71	July 7	59	March 6	35
Caithness.	Wick	...	18—7 7	81		July 7, 10	70	July 8, 20, Aug. 2	55	March 6	33
Sutherland.	Dunrobin	...	9 9 9	12		July 8	75	July 7	60	Nov. 27	32
Ross and Cromarty.	Fortrose	...	9 9 9	69		July 9	80	July 8	61	March 6	34
	Glencarron	...	21 21 9	500		Oct. 5	74	July 9	58	Jan. 24, Mar. 5, Nov. 7	34
Inverness.	Strathpeffer	...	9 9 9	125		June 7, July 9, 10, 18	77	July 9	61	Nov. 27	28
	Fort Augustus	...	9 9 9	68		July 18	80	July 9, Oct. 6	60	Mar. 7, Nov. 27	32
	Fort William	...	21 21 9	171		July 18	81	July 9	59	Nov. 27	33
	Inverness	...	21 21 9	98		July 18	79	July 8, 9	61	Mar. 6, 7, Nov. 27	35
1. SCOTLAND, E.											
Nairn.	Nairn	...	18—7 7	82		July 9	80	July 8	62	Nov. 27	29
Elgin.	Gordon Castle	...	21 21 9	101		July 9, 10	79	July 9	61	Jan. 24	34
Banff.	Banff	...	17—9 9	6		Aug. 1, Sept. 7	77	July 8	62	March 5	35
Aberdeen.	Aberdeen	...	24 24 24	46		July 9	83	July 10	61	Jan. 24, Mar. 7	35
	Balmoral	...	9 9 9	930		July 18	81	July 20	60	Nov. 27	27
	Braemar	...	21 21 9	1120		July 18	79	July 8	59	Feb. 7	32
	Logie Coldstone	...	9 9 9	608		July 9	83	June 15, July 8, 9	58	Mar. 6, Nov. 26	32
Kincardine.	Crathes	...	9 9 9	269		July 10	84	July 8, 11	61	March 6	34
Forfar.	Arbroath	...	9 9 9	93		July 11	83	July 8	61	Mar. 7, Nov. 7, Dec. 24	37
	Carnoustie	...	9 9 9	39		July 10	83	July 8	60	Nov. 7, Dec. 24	36
	Dundee	...	21 21 9	160		June 25	85	July 8, 9, 10	61	Jan. 14	32
	(E. Necropolis).	...	9 9 9	244		June 25	83	July 8	59	Jan. 24	34
	Coll. Gdn.	...	9 9 9	218		July 18	81	Aug. 1	59	Jan. 13, 14, 24, Mar. 5, 7	36
Perth.	Kettins	...	9 9 9	218		July 18	81	Aug. 1	59	Jan. 13, 14, 24, Mar. 5, 7	36
	Lednathie	...	9 9 9	720		—	—	—	—	—	—
	Montrose	...	17—9 9	16		July 8, 10	82	July 8	61	Nov. 7, Dec. 24	36
	Crieff	...	21 21 9	478		July 18	82	July 8, 9	59	March 7	34
Fife.	Perth	...	9 9 9	76		July 18	86	July 8	61	Jan. 24	34
	Cupar	...	9 9 9	210		June 25	82	July 8	62	Jan. 24	34
	Kirkcaldy	...	9 9 9	66		July 9	84	July 8, 10	62	Jan. 13, 24	37
	St. Andrews	...	17—9 9	20		June 25, July 10	82	July 8	62	Jan. 24	36
Linlithgow.	Bangour	...	21 21 9	587		July 18	82	July 8	60	Jan. 13	33
	Dalkeith	...	—	—		—	—	—	—	—	—
	Blackford Hill	§	21 21 9	441		July 10	82	July 10	63	Nov. 27	35
	Liberton Coll. Gn.	...	9 9 9	190		June 25	85	—	—	Nov. 26, 27	35
Edinburgh.	Edinburgh Univ.	...	9 9 9	227		June 25	83	July 10	65	Nov. 7	37
	Leith	...	—	—		—	—	—	—	Jan. 24	36
	Smeaton	...	9 9 9	100		July 10	85	July 10	59	Nov. 27	35
	Marchmont	§	9 9 9	498		—	—	July 20	61	—	—
Haddington.	Glen	...	9 9 9	754		July 10	82	July 9	65	Nov. 26	31
Berwick.	West Linton	...	9 9 9	770		Sept. 9	81	July 20	59	Nov. 7	34
Peebles.	Kelso (Br'mlands)	...	9 9 9	195		July 10	85	July 8, Aug. 1	59	Nov. 26	28
Roxburgh.	Wolfelee	...	9 9 9	537		June 25	88	—	—	Nov. 27	34
6. SCOTLAND, W.											
Argyll.	Ardnadam	...	9 9 9	64		July 18	80	July 19	59	Jan. 24	35
	Ardornish	...	21 21 9	48		July 10, 18	77	June 25, Sept. 7	58	March 6	37
	Oban	...	17—9 9	18		July 13, 14	76	Oct. 10	60	Jan. 24	38
	Ford	...	9 9 9	149		July 10	76	July 8, 9, 17	59	March 6	55
Bute.	Rothsay	...	21 21 9	200		July 18	78	July 19	59	Jan. 13	38
Dumbarton.	Cardross	...	9 9 9	130		—	—	—	—	—	—
	Dumbarton	...	9 9 9	10		July 18	82	July 8, 9, 19	60	Jan. 24, Nov. 27	36
	Helensburgh	...	9 9 9	21		July 18	81	July 8	61	Jan. 24	35
	Stirling	...	9 9 9	151		July 18	82	July 9	66	Jan. 24	34
Renfrew.	Greenock	...	9 9 9	199		July 9, 18	79	July 9	61	Jan. 24	36
	Paisley	...	21 21 9	106		July 18	83	July 8, 9, 10	61	Dec. 4	35
	Renfrew	...	18—7 7	49		June 25, July 18	80	July 8, 11, 19	60	Dec. 4	26
	Dungavel	...	9 9 9	798		July 18	78	July 10	60	Jan. 13	34
Lanark.	Leadhills	...	9 9 9	1310		July 9, 16	79	July 10	60	Nov. 7	30
	Thorntonhall	...	9 9 9	440		July 18	79	July 9	59	Jan. 24, Nov. 27	34
	Ayr.	Colmonell	...	170		July 10	82	July 9	64	Jan. 13, Feb. 7, 20	39
	Kilmarnock	...	9 9 9	90		July 10, 13, 18	81	July 7	62	Nov. 26	37
Dumfries.	Turnberry	...	9 9 9	96		July 10, 15	79	July 9	62	Feb. 7	40
	Dumfries	...	21 21 9	140		July 10, 18	82	July 19	62	Nov. 27	34
	Eskdalemuir	...	24 24 24	794		July 10	79	July 19	60	Nov. 27	33
	Ruthwell	...	21 21 9	67		July 18	83	July 19	62	Feb. 9	37
Kirkcudbright.	Cargen	...	9 9 9	85		July 10	84	July 9, 19	63	Nov. 26	34
Isle of Man.	Douglas	...	17—9 9	284		July 18	78	July 19	62	Nov. 8	39
2. ENGLAND, N.E.											
Northumberland.	Alnwick	...	9 9 9	181		July 10	86	July 11	63	Jan. 14, Feb. 8, 20, Nov. 8	38
	Bellingham	...	9 9 9	848		July 10	84	July 20	58	Feb. 20	34
	Cockle Park	§	21 21 9	324		July 10	86	July 9	61	Jan. 15, Feb. 4, 8, 20, Nov. 7	37
	Tynemouth	...	18—7 7	118		June 25	80	July 9	65	Jan. 14, Feb. 7, 8, 20, Nov. 7, Dec. 24	38
Durham.	Chopwellwood	...	9 9 9	445		July 10	87	July 9, 20, 22, Aug. 1, Sept. 23	58	Feb. 8	36
	Durham	...	21 21 9	336		July 10	87	July 9	62	Feb. 7, 8	36
	Ushaw College	...	9 9 9	594		July 10	87	July 9	63	Feb. 7, 8	35

TABLE V. [1913] (continued)—WARMEST DAY and NIGHT and COLDEST DAY and NIGHT in the YEAR at each STATION.

DISTRICTS AND STATIONS.			Terminal Hours of Observation.		Height of Station above M. S. L.	Warmest Day.		Warmest Night.		Coldest Day.		Coldest Night.			
			Max.	Min.		Highest Maximum and Date.		Highest Minimum and Date.		Lowest Maximum and Date.		Lowest Minimum and Date.			
2. ENGLAND, N.E.—continued.															
York, N. Riding.	Ampleforth	...	9	9	9	348	July 10	86	July 9, 10, Aug. 1	61	Feb. 7	36	Nov. 11, Dec. 5	27	
	Bridlington	...	21	21	9	57	July 11	85	Aug. 1	62	Dec. 5	37	Nov. 11	23	
	Rounton	...	21	21	9	249	July 10	88	Aug. 1	62	Feb. 7	37	Nov. 11	15	
	Scarborough	...	17	9	9	118	July 11	87	July 11	70	Dec. 5	37	Dec. 5	29	
	West Witton	...	9	9	9	605	July 9	87	July 20	62	—	—	—	—	
	Whitby	...	21	21	9	124	June 25, July 11	84	July 10, Aug. 1	63	Feb. 7	38	April 8	27	
	York	...	21	21	9	56	July 10	89	July 9, Aug. 1	64	Dec. 4	34	Nov. 11	18	
York, E. Riding.	Howden	...	18	7	7	21	July 10	90	Aug. 1	64	—	—	—	—	
	Hull	...	21	21	9	8	July 10	89	July 9, Aug. 1	64	Jan. 15, Dec. 24	38	Nov. 11	24	
	Spurn Head	...	18	7	7	26	July 25	83	Aug. 2	65	Jan. 14, Feb. 7	38	Nov. 8	29	
	Cranwell	...	18	7	7	236	July 10	89	July 23	67	Nov. 25, 30	35	Feb. 2, 4, Nov. 11, Dec. 5	24	
Lincoln.	Fulbeck	...	9	9	9	180	July 10	90	July 23	66	Nov. 30	35	Nov. 9	23	
	Lincoln	...	9	9	9	58	July 10	92	July 23	67	Feb. 3	36	Nov. 11	25	
	Skegness	...	17	9	9	12	July 11	85	July 23	66	Dec. 5	34	Feb. 2, Apr. 15, Nov. 8, 26, 28	28	
3. ENGLAND, E.															
Norfolk.	Cromer	...	9	9	9	196	July 10	89	July 11	63	Feb. 6, 7	37	Dec. 5, 6	25	
	Geldeston	...	9	9	9	37	July 11	88	July 23	64	Nov. 28	36	Nov. 26, 27	19	
	L. Massingham	...	9	9	9	277	July 10	87	July 23	65	Feb. 7	36	Dec. 5	26	
	Norwich	...	9	9	9	93	July 10, 11	90	July 23	67	Nov. 27	33	Nov. 26, 27	23	
	Yarmouth	...	18	7	7	13	July 25	85	Aug. 18	64	Dec. 5	33	Nov. 28	25	
Suffolk.	Bungay (Flixton)	...	9	9	9	79	July 11	91	July 23	66	Feb. 6	36	Nov. 26, 28	21	
	Felixstowe Aero.	...	18	7	7	15	July 20	85	July 23	66	Dec. 5	34	Nov. 29	25	
	Felixstowe Beach	...	17	9	9	15	July 20	84	July 23	66	Dec. 5	33	Nov. 28, Dec. 5	24	
	Copdock	...	9	9	9	164	July 11	92	July 23	66	Nov. 8	35	Nov. 28	21	
Cambridge.	Lowestoft	...	17	9	9	83	Aug. 1	83	July 23	66	—	—	—	—	
	Cambridge	...	20	20	8	41	July 10, 11	90	July 23	64	Nov. 27	30	Nov. 28	20	
Bedford.	Luton	...	9	9	9	390	July 10, 11	88	July 23	64	Nov. 27	33	Feb. 3, Nov. 9	21	
	Woburn	...	9	9	9	291	July 10, 11, 19	88	July 25	65	Nov. 27	33	Nov. 11	19	
Hertford.	Bennington	...	21	21	9	406	July 11	91	July 20	64	Feb. 7	35	Nov. 12	25	
	Berkhamsted	...	9	9	9	450	July 11, 19	90	July 20	65	Feb. 7	35	Nov. 13	24	
	Hemel Hempstead	...	21	21	9	536	July 10	88	July 23	63	Feb. 7	34	Nov. 13	25	
	Hitchin	...	9	9	9	297	July 11	91	July 23	65	Nov. 27	31	Nov. 11	22	
Essex.	Rothamsted	...	9	9	9	420	July 10	88	July 20, 23, Aug. 2	63	Feb. 7	35	Nov. 10	21	
	Clacton-on-Sea	...	18	7	7	54	July 20	86	July 23, 26, Aug. 2	65	Dec. 5	33	Dec. 5	25	
	Chelmsford	...	9	9	9	134	July 11	92	July 23	66	Feb. 7, Nov. 8, Dec. 4	37	Nov. 28	19	
	Halstead	...	9	9	9	139	July 11	94	July 23	66	Nov. 8	36	Nov. 28	21	
	Ridgewell	...	9	9	9	269	July 11	92	July 23	65	Nov. 8	36	Nov. 28	21	
	Shoeburyness	...	18	7	7	11	July 11	92	July 23	64	Dec. 5	35	Nov. 28	20	
	Southend	...	17	9	9	90	July 11	93	July 20	65	Dec. 5	35	Nov. 13	27	
4. MIDLAND COUNTIES.															
York, W. Riding.	Bradford	...	9	9	9	439	June 25	86	Aug. 1	63	Feb. 7, Nov. 30, Dec. 4	36	Nov. 11	20	
	Garforth	...	9	9	9	192	June 25, July 10	87	July 20	60	Dec. 13	32	Nov. 11	12	
	Harrogate	...	17	9	9	479	June 25, July 10	86	July 10, 20	62	Feb. 7, Nov. 30	35	Nov. 11	24	
	Huddersfield	...	21	21	9	409	June 25	88	July 11, Aug. 1	63	Feb. 7, Dec. 4	35	Nov. 11	21	
	Meltham	...	9	9	9	513	July 10	87	June 26, July 20, Aug. 1	62	Nov. 30	34	Nov. 11	20	
Derby.	Sheffield	...	9	9	9	429	July 10	89	July 9	66	Feb. 4, Dec. 4	36	Nov. 11	25	
	Wakefield	...	9	9	9	124	July 10	90	Aug. 1	64	Feb. 3, Nov. 30	35	Dec. 4	18	
	Belper (School)	...	9	9	9	222	—	—	—	—	—	—	—	—	
	Belper (Q. Bank)	...	9	9	9	280	July 10	88	July 23	64	Nov. 30	34	Nov. 11	20	
	Buxton	...	21	21	9	987	July 10	84	Aug. 1, Sept. 23	59	Feb. 7, Dec. 4	34	Nov. 11	18	
Nottingham.	Kingston	...	9	9	9	129	July 10	91	July 23	66	Nov. 30	35	Nov. 11	18	
	Lenton Fields	...	7	7	7	132	July 10	90	Aug. 1	63	Nov. 12	32	Nov. 11, 12	19	
	Nottingham	...	18	7	7	82	July 10	92	July 23	67	Nov. 12	33	Nov. 11	21	
	Strelley	...	9	9	9	377	July 10, 11	87	July 23, Aug. 1	63	Nov. 30	35	Feb. 4	22	
Leicester	Hodsock	...	9	9	9	56	July 10	93	Aug. 1	64	Nov. 30	36	Nov. 11	18	
	Belvoir Castle	...	21	21	9	259	July 10	90	July 23	64	Feb. 7	36	Dec. 4	21	
	Eye	...	9	9	9	16	July 10	92	July 23	66	Nov. 27	31	Nov. 11	20	
	Oundle	...	9	9	9	147	July 10	89	July 23	66	Nov. 26, 27, Dec. 4	34	Dec. 5	21	
North- ampton.	Raunds	...	9	9	9	213	July 10	90	July 23	65	Nov. 27, Dec. 4	34	Nov. 9	21	
	Birmingham	...	21	21	9	525	July 10	89	July 23	66	Dec. 4	34	Nov. 9	26	
	Coventry	...	9	9	9	270	July 10	89	July 23	66	Dec. 4	34	Nov. 9	26	
Warwick.	Leamington Spa	...	17	9	9	165	July 10	89	Aug. 1	65	Dec. 4	34	Nov. 11	20	
	Rugby	...	21	21	9	390	July 10	88	July 23	64	Jan. 15	32	Dec. 24	24	
	Oxford.	Benson	...	18	7	186	July 10	91	July 23	65	Feb. 7, Nov. 30	35	Nov. 9	19	
	Oxford	...	21	21	9	208	July 10	89	July 23	66	Dec. 4	35	Nov. 13	21	
Bucks.	Mursley	...	17	9	9	490	July 10	88	July 23, Aug. 1	63	Nov. 27	33	Nov. 11	21	
	Stafford.	Cheadle	...	9	9	9	646	July 10	89	July 9, 23	63	Feb. 7	35	Nov. 11	23
	Mayfield	...	9	9	9	374	July 10	89	July 23	64	Nov. 30	35	Nov. 11	17	
Shropshire.	Wellington	...	9	9	9	207	July 10	92	July 23	62	Dec. 4	34	Nov. 9	14	
	Wistanstow	...	21	21	9	481	July 10	88	July 23	65	Dec. 4	32	Nov. 9	12	
Worcester.	Malvern	...	17	9	9	377	July 10	87	July 20	67	Nov. 30	34	Nov. 13	22	
	Sparkhill	...	7	13	7	424	July 10	91	July 23	66	Dec. 4	33	Nov. 11	20	
	Tenbury	...	21	21	9	313	July 10, 11	88	July 23	67	Dec. 4	32	Nov. 9, 11	13	
Hereford.	Bromyard	...	9	9	9	392	July 10, 19	87	July 23	64	Dec. 4	32	Nov. 9	14	
	Hereford	...	9	9	9	291	—	—	—	—	—	—	—	—	
Gloucester.	Ross	...	18	7	7	223	July 11, 19	90	July 23	66	Dec. 4	33	Nov. 9	17	
	Cheltenham	...	9	9	9	214	July 10	90	July 18	69	Feb. 7	36	Nov. 9	22	
	Overcourt	...	9	9	9	147	July 13	90	July 20, 23	64	Dec. 4	35	Nov. 13	20	
	Clifton	...	9	9	9	225	July 13	89	July 19	65	Dec. 4	36	Nov. 11, 13	25	
5. ENGLAND, S.E.															
London.	gCamden Square	...	9	9	9	110	July 11	93	July 23	66	Nov. 26	36	Nov. 11	24	
	East Ham	...	9	9	9	15	July 11	92	July 23	65	Nov. 27	33	Nov. 28	24	
	Enfield	...	9	9	9	148	July 11	92	July 23	66	Jan. 15	34	Nov. 10	22	
	gGreenwich	...	9	9	9	149	July 11	94	July 23	66	Nov. 27	34	Nov. 13	25	
	Hampstead Res.	...	21	21	9	450	July 11	92	July 20	67	Feb. 7	35	Nov. 13	26	
	Richmond (Kew Obs.).	...	24	24	24	18	July 10	89	July 23	67	Nov. 27	35	Nov. 10	24	

TABLE V. [1913] (continued).—WARMEST DAY AND NIGHT AND COLDEST DAY AND NIGHT in the Year at each STATION.

DISTRICTS AND STATIONS.				Terminal Hours of Observation.	Height of Station above M.S.L.	Warmest Day.	Warmest Night.	Coldest Day.	Coldest Night.					
				Max. Min.	Rain.	Highest Maximum and Date.	Highest Minimum and Date.	Lowest Maximum and Date.	Lowest Minimum and Date.					
5. ENGLAND, S.E.—cont.						ft.	°F.	°F.	°F.	°F.				
London—cont.				9 9	9	80	July 10, 11	91	July 20	69	Nov. 30	36	Nov. 10, 13	27
Tottenham				21 21	9	51	July 11	91	July 18	68	Nov. 27, 28	35	Nov. 10	25
Westminster				9 9	9	27	July 11	92	July 23	67	Feb. 7, Dec. 4	38	Nov. 13	26
Kent.				9 9	9	14	July 11	91	July 23	66	—	—	—	—
Belvedere				9 9	9	14	July 11	91	July 23	66	—	—	—	—
Bexley Heath				21 21	7	161	July 11	93	July 23	64	Nov. 27	35	Nov. 28	24
Biggin Hill				18—7	7	600	July 11	89	July 11	65	Feb. 7	33	Nov. 26	25
Canterbury				9 9	9	40	July 11	93	July 24	64	Dec. 4	34	Nov. 28	23
Deal				17—9	9	18	July 11	89	July 24	64	—	—	—	—
Dungeness				18—7	7	21	July 11, 19	81	Aug. 19, 20, Sept. 14	64	Dec. 4	36	Dec. 5	25
Folkestone				17—9	9	101	July 11	84	July 19	64	Nov. 30, Dec. 3	37	Dec. 5	27
Margate				17—9	9	51	July 11	87	July 11, 20, Aug. 19	64	Dec. 4	36	Dec. 1	29
Isle of Grain				18—7	7	20	July 11	90	July 23	64	Nov. 28	35	Feb. 2, Nov. 27	21
Lympe				18—7	7	350	July 11	85	July 24, Sept. 14	62	Dec. 3, 4, 5	33	Dec. 5	21
Ramsgate				9 9	9	168	July 11	84	July 24	63	Dec. 4	36	Dec. 1	28
Sevenoaks				9 9	9	509	July 11	92	July 26, Sept. 14	62	Feb. 7	34	Nov. 26	25
Tunbridge W.				17—9	9	354	July 11	91	July 18, 23, 24, 26, Sept. 14	62	Dec. 4	35	Nov. 13	24
Surrey.				9 9	9	472	July 10, 11	87	July 20	62	Nov. 30	34	Nov. 8, 26	25
Croydon Aero.				18—7	7	244	July 11	90	July 23	65	Nov. 26	34	Nov. 11	21
Wallington				9 9	9	140	July 11	92	July 23	66	Nov. 26	34	Nov. 11	21
Sussex.				9 9	9	150	July 10, 11	91	July 31	68	Nov. 26, 27	33	Nov. 11	19
Woking				9 9	9	179	July 11	94	July 20	65	—	—	—	—
Ardingley				9 9	9	439	July 11	91	July 20	62	Feb. 7, Dec. 4	35	Nov. 13	24
Bognor				9 9	9	20	July 19	88	July 20	66	Feb. 7	37	Nov. 8	25
Brighton				17—9	9	31	July 19	87	July 19	65	Dec. 4	37	March 8	29
Eastbourne				17—9	9	35	July 11, 19	84	July 19	65	Dec. 3, 4	36	Dec. 5	27
Littlehampton				17—9	9	18	July 19	89	July 18, 20	65	Dec. 24	35	Nov. 13	25
Midhurst				9 9	9	480	July 11	87	July 20	67	—	—	—	—
St. Leonards				17—9	9	178	July 11, 18	85	July 11	65	Dec. 4	34	Dec. 5	26
Seaford				9 9	9	38	July 12	87	July 26, Aug. 1, Sept. 10, 14	64	Dec. 3, 4	36	Nov. 12, Dec. 5	27
Berkshire.				9 9	9	21	July 19	89	July 20	65	Feb. 7	37	Nov. 13	24
Worthing				17—9	9	36	July 19	87	July 20	68	Dec. 4, 24	37	Mar. 8, Nov. 13	28
Bucklebury Pl.				9 9	9	409	July 11	88	July 20	64	Nov. 26, Dec. 4	35	Nov. 9, 13	25
Reading—														
University Col.				9 9	9	152	July 10, 11	91	July 20, 23	66	Nov. 26, 27	36	Nov. 13	22
Shinfield				9 9	9	200	July 10, 11	88	July 23	65	Nov. 26, 27	34	Nov. 13	22
Hampshire.				9 9	9	215	July 11	90	Aug. 1, 2	63	—	—	Nov. 11, 13	18
Wokingham				9 9	9	231	July 10, 11	89	July 23	65	Nov. 26	34	Nov. 11, 13	20
Aldershot				9 9	9	289	—	—	—	—	—	—	—	—
Basingstoke				9 9	9	145	July 11, 19	89	July 20	65	Dec. 3, 4	37	Nov. 13	22
Bournemouth				18—7	7	8	July 18	89	July 18, 20, 23	65	Feb. 7	38	Nov. 13	26
Calshot				9 9	9	661	July 11	87	July 20	65	Feb. 7	34	Nov. 8, Dec. 5	25
Grayshott				17—9	9	15	July 19	89	July 20	68	Feb. 7	38	Nov. 13	26
Portsmouth				9 9	9	13	July 11	88	July 20	67	Dec. 4	38	Feb. 27, Nov. 11, Dec. 5, 18	30
Ryde				9 9	9	30	July 18, 19	87	July 20	67	Dec. 4	38	Nov. 13	27
Sandown				21 21	9	64	July 11, 19	90	July 20	64	Feb. 7, Nov. 8	37	Nov. 13	24
Southampton				18—7	7	230	July 10, 11	91	July 23	66	Feb. 7, Nov. 26	35	Nov. 13	18
S. Farnborough				9 9	9	140	July 19	85	July 20	65	Dec. 4	37	Nov. 13	27
Totland Bay				9 9	9	59	July 19	86	July 20	69	Dec. 4	37	Nov. 8, 9	30
Ventnor				9 9	9	440	July 13	86	July 23	63	Nov. 8	32	Nov. 13	15
Larkhill				9 9	9	235	July 10, 18	89	July 23	65	Dec. 4	34	Nov. 9	14
Malmesbury				9 9	9	424	July 10, 11, 13, 19	87	July 23	64	Nov. 8	34	Nov. 9	14
Marlborough				9 9	9	340	July 11	88	July 23	63	Nov. 8	33	Nov. 9, 13	15
Porton				9 9	9	340	July 11	88	July 23	63	Nov. 8	33	Nov. 9, 13	15
7. ENGLAND, N.W.														
Cumberland.				21 21	9	487	July 18	80	July 19	61	Jan. 14, Nov. 7	36	March 7	21
(Mealsgate)				9 9	9	349	July 10, 18	81	July 15, 19	62	Feb. 8	37	March 7	25
Egremont				21 21	9	254	July 18	83	July 19, 20, Oct. 6	63	Nov. 7	38	Feb. 10, 11, Mar. 7, Nov. 7	23
Keswick				9 9	9	254	July 18	83	July 19, 20, Oct. 6	63	Nov. 7	38	Feb. 10, 11, Mar. 7, Nov. 7	23
Lancashire.				21 21	9	559	July 10, 18	84	July 19	62	Jan. 14	36	Feb. 10, Nov. 9	20
Newton Rigg				9 9	9	111	July 18	85	July 20, Oct. 6	60	Feb. 9	36	Jan. 15, Apr. 16, Nov. 9	22
Scaleby				9 9	9	111	July 18	85	July 20, Oct. 6	60	Feb. 9	36	Jan. 15, Apr. 16, Nov. 9	22
Blackpool				17—9	9	66	June 25	81	July 19, 20	63	Dec. 4	36	Nov. 9	25
Blundellsands				9 9	9	34	June 25	88	July 19	65	Dec. 4	35	Nov. 8, 13, Dec. 4	26
Bolton				9 9	9	341	June 25, July 9	86	July 19	63	Feb. 7	36	Nov. 9	26
Burnley				9 9	9	458	June 25	85	July 20	62	Feb. 7, Dec. 4	36	Nov. 9	21
Darwen				21 21	9	722	July 10	86	June 25, July 19	62	Feb. 1, 4, 6, 8	37	March 7	25
Hutton				9 9	9	82	June 25	86	July 19	62	Dec. 4	35	Nov. 9	22
Lancaster				9 9	9	311	June 25	84	June 25, July 10, 19	63	Feb. 7	38	March 7	25
Leyland				9 9	9	124	June 25	84	June 25	62	Feb. 7, Nov. 25, 26	37	Nov. 26	20
Morecambe				17—9	9	24	June 25	81	July 19	64	Feb. 7	38	Nov. 9	24
Southport				17—9	9	37	June 25	84	July 19, 20	64	Nov. 26	35	Nov. 9, 11	26
Stonyhurst				9 9	9	375	June 25, July 18	83	July 20	63	Feb. 6, 7	38	Nov. 9, 13	25
Liverpool.				21 21	9	188	June 25	86	July 10	64	Dec. 4	35	Nov. 12, Dec. 4, 5	28
Bidston				21 21	9	188	June 25	86	July 10	64	Dec. 4	35	Nov. 12, Dec. 4, 5	28
Manchester.				21 21	9	125	June 25, July 10	89	July 10	69	Dec. 24	38	Nov. 9	25
Whitworth Pk.				21 21	9	125	June 25, July 10	89	July 10	69	Dec. 24	38	Nov. 9	25
Oldham Road				21 21	9	190	June 25	88	June 25	66	Feb. 7, Mar. 7, Dec. 24	38	Nov. 13	27
Alex. Park				18—7	7	99	July 10	88	Aug. 1	62	—	—	—	—
Cheshire.				9 9	9	22	June 25	86	July 20	67	Feb. 7, Dec. 4	38	Nov. 9	18
Hawarden Bridge				9 9	9	22	June 25	86	July 20	67	Feb. 7, Dec. 4	38	Nov. 9	18
Hoylake				9 9	9	30	June 25, July 9	81	July 20	64	Dec. 3	34	Nov. 9, 11, Dec. 4	24
Macclesfield				9 9	9	500	July 10	88	June 25, 26	62	Feb. 7, 9	36	Nov. 8, 9, 26, Dec. 5	23
Flint.				17—9	9	30	July 13	83	July 20	64	Nov. 30	35	Nov. 9	24
Anglesey.				18—7	7	15	July 10	78	July 14	62	Feb. 7	38	March 7	30
Carnarvon.				17—9	9	81	June 25, July 14, 15, Oct. 5	78	July 20	64	Feb. 7, Dec. 3	38	Dec. 4	27
Colwyn Bay				17—9	9	81	June 25, July 14, 15, Oct. 5	78	July 20	64	Feb. 7, Dec. 3	38	Dec. 4	27
Llandudno				17—9	9	22	June 25, July 10, 14, Oct. 5	78	July 20	64	Feb. 7	38	Feb. 10	26
Merioneth.				9 9	9	60	June 25, July 13	84	July 20	65	Feb. 7, Nov. 30	40	Jan. 14, Feb. 10, Dec. 5	31
Aberdovey				9 9	9	60	June 25, July 13	84	July 20	65	Feb. 7, Nov. 30	40	Jan. 14, Feb. 10, Dec. 5	31
Montgomery.				9 9	9	262	July 10	90	Aug. 1	62	Feb. 7	37	Nov. 9, 10	11
Welshpool				9 9	9	262	July 10	90	Aug. 1	62	Feb. 7	37	Nov. 9, 10	11

TABLE V. [1913] (continued).—WARMEST DAY and NIGHT and COLDEST DAY and NIGHT in the YEAR at each STATION.

DISTRICTS AND STATIONS.		Terminal Hours of Observation.		Height of Station above M.S.L.	Warmest Day.		Warmest Night.		Coldest Day.		Coldest Night.		
		Max.	Min.		Highest Maximum and Date.		Highest Minimum and Date.		Lowest Maximum and Date.		Lowest Minimum and Date.		
8. ENGLAND, S.W.					ft.								
Cardigan.	Aberystwyth	17	9	9	16	July 13	84	July 20, 23, Aug. 1	64	Dec. 4	40	Nov. 12	26
Pembroke.	Haverfordwest	21	21	9	250	July 13	84	July 19	64	Dec. 4	37	Nov. 12	23
	St. Ann's Head	18	7	7	149	July 12	79	July 13, 15, 18, 23	62	Dec. 4	39	Mar. 30, Dec. 4	33
	Tenby	17	9	9	64	July 11, 12, 18, 19	84	July 23	64	Dec. 4	40	Nov. 12	25
Brecknock.	Gwernyfed Park...	9	9	9	374	July 9, 10	87	Aug. 1	61	Dec. 4	34	Nov. 13	15
Radnor.	Rhayader	9	9	9	757	July 10	85	July 23	62	Dec. 4	34	Nov. 13	11
Glamorgan.	Cardiff	21	21	9	202	July 10, 13	87	July 18, 19	66	Feb. 7, Dec. 4	36	Nov. 9, 13	26
	Swansea	9	9	9	25	July 19	89	July 19, 20	65	Feb. 7	39	Jan. 14, Nov. 12	30
Monmouth.	Newport	9	9	9	32	July 10, 13	89	July 20	67	Dec. 4	35	Nov. 13	23
Somerset.	Bath	17	9	9	66	July 10, 13	89	July 23	66	Dec. 4	35	Nov. 13	19
	Long Ashton	9	9	9	162	July 13	89	July 20	65	Dec. 4	36	Nov. 11	22
	Weston-sup.-Mare	17	9	9	29	July 13	90	July 19, 20	66	Dec. 4	38	Nov. 13	21
Dorset.	Dorchester	9	9	9	314	July 11, 12	86	July 23	63	—	—	—	—
	Holton Heath	9	17	9	64	July 19	87	July 14, 20, 23	64	Dec. 3, 4	37	Nov. 13	18
	Portland Bill	18	7	7	19	July 19	81	July 20	67	Feb. 7, Dec. 4	40	Dec. 4	31
	Shaftesbury	9	9	9	722	July 10-12, 18, 19	85	July 13, 18, 20, 23	61	Dec. 4	33	Nov. 9	25
	Weymouth	17	9	9	21	July 12	89	July 18	66	Dec. 3, 4	38	Nov. 13	25
Devon.	Arlington	9	9	9	613	July 12, 13	84	July 20	64	Dec. 3	36	Nov. 9	25
	Ashburton	9	9	9	583	July 11, 19	87	July 19	67	Dec. 3	34	Nov. 13	29
	Cullompton	9	9	9	202	July 11, 12, 19	89	July 17, 20	65	Dec. 3, 4	37	Nov. 13	19
	Exmouth	9	9	9	11	July 19	86	—	—	Dec. 3	37	Nov. 13	25
	Ilfracombe	17	9	9	24	June 25	85	July 23	65	Dec. 4	37	Jan. 14	32
	Killerton	9	9	9	159	—	—	July 17, 20	65	Dec. 3	38	Nov. 13	19
	Paignton	17	9	9	11	July 19	87	July 19	66	Dec. 3	39	Nov. 13	24
	Plymouth—												
	(The Hoe)	21	21	9	116	July 19	85	July 20	66	Feb. 7, Dec. 4	40	Nov. 13	28
	(Cattewater)	18	7	7	58	June 12	85	July 20	66	Dec. 3	38	Nov. 13	28
	Princetown	9	9	9	1335	—	—	—	—	—	—	—	—
	Salcombe	9	9	9	39	July 19	84	Aug. 18	62	Dec. 3	44	—	—
	Sheepstor	21	21	9	749	July 11, 19	86	July 23	61	Dec. 4	36	Nov. 11, 12	19
	Sidmouth	9	9	9	147	July 20	84	July 19, 20	65	Dec. 3	37	Nov. 13	26
	Tavistock	9	9	9	458	July 11	89	July 20	65	Dec. 3	39	Nov. 13	24
	Teignmouth	17	9	9	19	July 18, 19	85	July 19, 20	67	Dec. 3	38	Nov. 13	27
	Torquay	17	9	9	12	July 19	86	July 19	67	Dec. 3	38	Nov. 13	29
	Woolacombe	21	21	9	59	July 13	85	July 13, 20, 23, Aug. 1	64	Dec. 4	39	Apl. 15, Nov. 9, 11, 13	33
Cornwall.	Bude	17	9	9	49	June 25	85	Aug. 1	65	Dec. 3	38	Nov. 12	24
	Falmouth	18	7	7	167	July 18	83	July 20	65	Dec. 4	40	Nov. 12	29
	Fowey	9	9	9	51	—	—	July 20	65	Feb. 6, Dec. 3	44	Nov. 9	28
	Newquay	18	9	9	189	July 13	85	July 18-20, 23, 25, Aug. 1	63	Dec. 3, 4	39	Nov. 9, 12	28
	Penzance	17	9	9	54	July 11	83	July 18	65	Nov. 18, Dec. 3, 4	45	Nov. 13	31
	Redruth	9	9	9	397	July 11	84	July 20, 23, 25	63	Dec. 3	40	Nov. 12	29
9. IRELAND, N.													
Sligo.	Markree Castle	21	21	9	122	July 13	82	July 8	62	Feb. 7	41	Mar. 7, May 5	25
Mayo.	Blacksod Point	18	7	7	10	July 13, 14	76	July 13, 15, 19	62	—	—	—	—
	Mallarany	9	9	9	120	July 12	84	July 9, 19	62	Feb. 7	42	Nov. 7	29
Donegal.	Dunfanaghy	21	21	9	50	July 13	81	July 8	61	Feb. 7, Apl. 15	41	Feb. 10, Apl. 15	31
	Malin Head	18	7	7	71	July 9	75	July 9, 10	61	—	—	—	—
Antrim.	Lisburn	9	9	9	206	July 10	86	July 9	61	Feb. 10	38	Jan. 14, Feb. 10, 11, Apr. 16, Nov. 9	25
Down.	Donaghadee	18	7	7	35	July 19	78	July 8, Sept. 23	61	Jan. 13, Feb. 7, Dec. 20	41	March 7	28
Armagh.	Armagh	21	21	9	204	July 10	85	July 9	66	Jan. 11-13, Feb. 7	40	March 7	24
Longford.	Newtownforbes	21	21	9	161	July 12	84	July 9	64	Feb. 7	39	—	—
10. IRELAND, S.													
Dublin.	Baldonnell	18	7	7	282	July 9, 10	83	July 8, 19	63	Feb. 20, Dec. 4	40	March 7	20
	City	21	21	9	54	July 9	82	July 8	66	Jan. 14	41	March 7	29
	Glasnevin	21	21	9	55	July 9	84	July 19	64	Jan. 13, Feb. 6, 7	42	March 7	25
	Phoenix Park	21	21	9	155	July 9	85	July 19, Aug. 1	63	Jan. 13, Feb. 7, 10	41	Mar. 7, Nov. 9	22
	Trinity College	21	21	9	12	July 9	84	July 9	63	Jan. 14, Feb. 6, 7	42	Mar. 7, Nov. 9	29
	Ranelagh	21	21	9	61	July 9	87	July 8, 9	64	Feb. 7	41	March 7	27
Wicklow.	Newcastle	21	21	9	256	July 10	83	July 8	65	Feb. 7	40	Mar. 7, Apr. 16, Dec. 4	29
Kildare.	Clongowes Wood	9	9	9	246	—	—	—	—	—	—	—	—
King's Co.	Birr Castle	18	7	7	175	July 12	86	July 9	65	Feb. 10	39	March 7	23
Queen's Co.	Mountmellick	9	9	9	252	July 12	87	July 8	65	Jan. 12	39	March 7	25
Kilkenny.	Kilkenny	9	9	9	153	July 10, 12	86	July 23	65	Jan. 13, Feb. 10	41	Nov. 9	21
Waterford.	Waterford—												
	Gortmore	9	9	9	137	July 11, 13	84	July 19, 20	65	Jan. 13	43	Nov. 8	27
	Training Coll.	21	21	9	16	July 13	84	July 20	65	Jan. 13, Apr. 15	42	—	—
	Seskin, Carriek-on-Suir.	21	21	9	542	July 11	85	July 8, 19, 20	61	Jan. 13	39	March 7	25
Limerick.	Foynes	9	9	9	50	July 12	87	July 8	64	Dec. 3	40	Feb. 11, Mar. 7	28
Kerry.	Killarney	9	9	9	174	July 12	90	July 6, 23	65	Jan. 13	42	Feb. 11, Mar. 7, Nov. 8	26
	Cahiriveen (Val. Obs.)	24	24	24	30	July 12	80	July 8	65	Jan. 13, Feb. 11	44	Mar. 7	29
Cork.	Ballinacurra	9	9	9	24	July 11, 18	81	July 23	66	Jan. 13	43	—	—
	Roche's Point	18	7	7	32	July 18, 19	79	July 14, 20, 23	65	Jan. 13, Feb. 5	44	Jan. 14, Mar. 7, Apr. 16, Nov. 9	32
11. ENGLISH CHANNEL.													
Guernsey.	Grange	21	21	9	173	July 11	82	Oct. 5	64	Feb. 8	40	Nov. 12, 13	31
	Villa Carey	9	9	9	180	July 11	85	—	—	—	—	—	—
Jersey.	St. Aubins	18	7	7	25	July 10	87	July 12, 13	66	Feb. 7, 8	40	Nov. 12, 13	30
Scilly.	St. Mary's	18	7	7	131	July 11	82	July 12	64	Feb. 11	43	Apr. 16, Nov. 12	37
GIBRALTAR	...	18	7	7	44	Aug. 3	91	Aug. 6	75	Feb. 11	53	Jan. 15, 16, Feb. 8	42
MALTA	...	18	7	7	194	July 20	99	July 29	80	—	—	Feb. 2	44

TABLE VI. [1913].—MONTHLY FREQUENCIES OF SUNSHINE FOR 17 STATIONS.—NUMBER of DAYS in each MONTH on which 6 hours but not more than

STATION.	January.					February.					March.					April.					May.					June.				
	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.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	9 hours.
Deerness ...	15	16	0	0	0	4	18	5	1	0	5	12	11	3	0	1	8	4	8	9	1	6	8	8	8	4	11	4	3	8
Aberdeen ...	8	17	3	3	0	6	18	5	1	3	3	11	7	10	0	2	3	8	9	8	1	4	6	9	11	2	6	4	8	10
Cockle Park ...	13	12	6	0	0	17	4	6	1	0	6	11	9	4	1	0	2	8	7	10	1	4	6	5	15	2	6	4	7	11
Cambridge ...	14	10	6	1	0	9	6	7	6	0	3	10	8	7	3	3	2	8	7	10	2	4	5	5	15	1	9	4	6	10
Birmingham ...	12	16	2	1	0	8	14	5	1	0	4	17	4	4	2	1	8	8	7	6	0	5	8	9	9	3	5	6	6	10
Richmond (Kew Obs.)	13	15	3	0	0	9	11	6	2	0	3	11	4	3	1	5	6	9	9	2	4	4	8	13	1	7	5	5	12	
Southampton ...	12	16	3	0	0	7	11	6	3	1	3	11	7	7	3	0	2	7	7	14	1	5	3	8	14	1	6	3	4	16
Renfrew ...	17	11	3	0	0	15	8	4	1	0	6	16	3	5	1	3	9	5	5	8	2	10	5	6	8	1	7	2	5	15
Eskdalemuir ...	23	4	4	0	0	12	6	7	3	0	10	8	8	5	0	1	9	2	13	5	3	4	10	7	7	1	9	5	0	15
Douglas ...	13	11	6	1	0	11	9	4	4	0	7	10	9	5	0	2	6	5	5	12	3	4	9	4	11	1	6	6	5	12
Southport ...	15	11	5	0	0	10	8	7	2	1	10	12	5	4	0	1	4	8	5	12	0	6	5	5	15	3	4	4	2	17
Stonyhurst ...	17	11	3	0	0	10	9	6	3	0	7	13	6	5	0	2	7	7	5	9	2	7	4	9	9	2	9	2	3	14
Holyhead ...	16	11	4	0	0	11	7	1	7	2	6	13	8	4	0	0	8	5	8	9	3	4	4	4	17	1	8	2	5	14
Falmouth ...	9	15	7	0	0	6	14	2	5	1	2	13	8	4	4	0	2	7	6	15	3	2	8	7	11	1	2	4	6	17
Markree Castle ...	15	13	3	0	0	10	11	5	2	0	6	14	7	4	0	2	5	6	6	11	1	12	5	5	8	2	9	4	2	13
Armagh ...	17	8	5	1	0	12	8	4	3	1	9	10	8	3	1	3	5	6	6	12	1	12	5	9	4	2	7	5	4	12
Dublin (Phoenix Park)	9	16	6	0	0	12	8	5	2	1	7	10	5	9	0	1	8	3	3	15	2	6	8	7	8	0	7	4	5	14
Birr Castle ...	14	11	5	1	0	13	9	3	3	0	3	18	4	6	0	2	4	7	6	11	4	9	7	5	6	3	5	3	6	13
Cahiriveen (Val. Obs.)	11	17	3	0	0	12	9	2	5	0	5	14	8	4	0	2	6	6	4	12	2	10	4	7	8	1	7	4	2	16

TABLE VII. [1913].—COLDEST DAY and WARMEST NIGHT in each month for 18 STATIONS. Date 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.
Deerness ...	24th	36	1st	44	1, 8	40	11th	43	7th	34	13, 24	42	15, 16	39	1, 2, 28	46	3rd	42	25th	47	29th	49	4, 24	50
Fort William ...	13th	35	9, 21	46	1, 7, 8	40	16th	45	5, 6	36	31st	47	15th	41	28th	47	3, 4	49	24th	50	12th	52	25th	56
Aberdeen ...	24th	35	21st	46	8th	39	15th	45	7th	35	31st	47	15th	39	1st	49	4th	44	22nd	50	21st	50	25th	55
Cockle Park ...	15th	37	21, 29	47	4, 8, 20	37	16th	44	7th	40	1, 13	44	16th	44	1st	46	4th	45	13th	50	12th	55	25th	55
Cambridge ...	14th	42	2, 10	48	7th	38	16, 17	43	7th	43	16, 24	47	17th	41	27th	46	4th	44	26th	56	4th	60	26th	57
Birmingham ...	15th	38	4th	48	7th	35	16th	45	7th	42	16, 22	46	17th	39	30th	46	3, 4	48	12, 13	51	4th	57	25th	59
Richmond (Kew Obs.)	15th	40	4th	50	3rd	37	17th	44	7th	44	16th	48	17th	41	29th	48	4th	48	31st	53	19th	60	24th	57
Southampton ...	15th	41	4th	48	7th	37	23rd	43	7th	46	16th	47	15th	45	28th	47	4th	53	25, 26	52	11th	60	24-26	56
Renfrew ...	24th	36	21, 29	49	10th	38	16th	46	5th	36	24th	49	15, 17	44	1st	48	4th	45	14th	52	21st	55	23rd	55
Eskdalemuir ...	14th	35	9th	48	8th	35	16th	44	7th	35	24th	44	16th	41	1st	44	4th	46	13th	50	12th	54	23, 24	54
Douglas ...	13th	41	9th	50	7th	40	16th	46	7th	42	24th	47	14, 15	45	28th	50	3rd	47	12th	52	19th	54	25th	59
Southport ...	13th	41	10th	51	7th	37	16th	45	6, 7	43	24th	49	17th	45	6, 28	45	3rd	46	12th	54	19th	55	25th	61
Stonyhurst ...	13, 14	40	10th	50	6, 7	38	17, 24	45	7th	41	24th	48	17th	42	30th	47	3rd	47	12th	52	9, 12	56	26th	61
Holyhead ...	13th	43	10th	50	7th	38	16, 17	46	7th	43	16th	48	14, 15	45	28th	47	3rd	51	23rd	50	4th	56	25th	57
Falmouth ...	31st	44	10th	52	11th	42	3, 25	46	7, 29	46	16th	50	15th	46	29th	49	4th	53	25th	56	1, 4	61	26th	59
Markree Castle ...	11th	42	9th	51	7th	41	16th	46	7th	43	21st	48	15th	43	1st	48	4th	51	12, 21	49	11th	57	26th	57
Armagh ...	11-13	40	9th	51	7th	40	16th	46	7th	43	24th	47	15th	45	1st	47	4th	47	21st	50	1st	59	24th	58
Dublin (Phoenix Park)	13th	41	9th	53	7, 10	41	14th	45	14th	45	24th	48	15th	45	29th	46	4th	49	19th	50	1st	57	14th	56
Birr Castle ...	13th	40	10th	52	10th	39	4, 15	44	6th	41	24th	49	15th	43	29th	48	4th	48	21st	51	1st	57	26th	59
Cahiriveen (Val. Obs.)	13th	44	9th	53	11th	44	7, 14	47	6th	46	21st	50	15th	45	26th	50	4th	51	21st	52	1st	54	26th	59

TABLE VIII. [1914].—NUMBER of DAYS in the YEAR with RAINFALL between given limits.

STATION.	0 in. 0 or 0.1 mm.	0-0.04 in. 0.2-1.0 mm.	0-0.04-0.20 in. 1.1-5.0 mm.	0-0.04-0.40 in. 5.1-10.0 mm.	0-0.04-0.60 in. 10.1-15.0 mm.	0-0.04-0.80 in. 15.1-20.0 mm.	0-0.04-1.00 in. 20.1-25.0 mm.	1.00 in. 25 mm.	STATION.	0 in. 0 or 0.1 mm.	0-0.04 in. 0.2-1.0 mm.	0-0.04-0.20 in. 1.1-5.0 mm.	0-0.04-0.40 in. 5.1-10.0 mm.	0-0.04-0.60 in. 10.1-15.0 mm.	0-0.04-0.80 in. 15.1-20.0 mm.	0-0.04-1.00 in. 20.1-25.0 mm.	1.00 in. 25 mm.
	0 in. 0 or 0.1 mm.	0-0.04 in. 0.2-1.0 mm.	0-0.04-0.20 in. 1.1-5.0 mm.	0-0.04-0.40 in. 5.1-10.0 mm.	0-0.04-0.60 in. 10.1-15.0 mm.	0-0.04-0.80 in. 15.1-20.0 mm.	0-0.04-1.00 in. 20.1-25.0 mm.	1.00 in. 25 mm.		0 in. 0 or 0.1 mm.	0-0.04 in. 0.2-1.0 mm.	0-0.04-0.20 in. 1.1-5.0 mm.	0-0.04-0.40 in. 5.1-10.0 mm.	0-0.04-0.60 in. 10.1-15.0 mm.	0-0.04-0.80 in. 15.1-20.0 mm.	0-0.04-1.00 in. 20.1-25.0 mm.	1.00 in. 25 mm.
Deerness ...	98	75	131	38	13	6	4	0	Douglas ...	173	58	70	31	16	11	3	3
Fort William ...	105	41	80	61	32	15	12	19	Southport ...	184	58	69	35	14	2	1	2
Aberdeen ...	206	53	82	21	2	1	0	0	Stonyhurst ...	169	44	63	50	15	11	8	5
Cockle Park ...	203	65	59	23	4	6	1	4	Holyhead ...	174	72	65	32	14	4	2	2
Cambridge ...	245	45	60	9	5	0	1	0	Falmouth ...	179	61	82	28	5	4	4	2
Birmingham ...	233	45	55	23	6	2	1	0	Markree Castle ...	124	62	113	47	8	7	2	2
Richmond (Kew Obs.)	259	43	45	13	4	1	0	0	Armagh ...	144	80	100	25	9	5	1	1
Southampton ...	232	52	57	13	8	3	0	0	Dublin (Phoenix Park)	160	84	85	22	8	2	1	3
Renfrew ...	171	48	69	43	19	12	3	0	Birr Castle ...	141	66	114	29	8	4	0	3
Eskdalemuir ...	140	45	89	45	16	8	12	10	Cahiriveen (Val. Obs.)	138	66	90	34	19	8	4	0

the DURATION of SUNSHINE was (1) nil, (2) 3 hours or less, (3) more than 3 hours but not more than 6 hours (4) more than 6 hours, (5) more than 9 hours.

July.					August.					September.					October.					November.					December.					Year.					STATION.
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.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	> 9 hours.	Sunless.	0-3 hours.	3-6 hours.	6-9 hours.	> 9 hours.	
4	11	9	5	2	3	15	7	4	2	8	15	4	2	1	6	19	3	3	0	14	11	4	1	0	14	17	0	0	0	79	159	59	38	30	Deerness ...
3	8	8	7	5	3	7	8	8	3	1	13	8	6	2	5	14	7	4	1	12	7	11	0	0	9	15	7	0	0	59	121	78	67	40	Aberdeen ...
3	8	8	7	5	3	7	8	8	3	1	13	8	6	2	5	14	7	4	1	12	7	11	0	0	9	15	7	0	0	59	121	78	67	40	Cockle Park ...
1	3	4	8	15	3	6	7	9	6	4	2	10	6	4	8	12	5	13	1	12	9	7	2	0	15	12	4	0	0	69	83	75	72	66	Cambridge ...
0	7	6	6	12	3	11	10	3	4	2	10	6	4	8	3	12	5	9	2	17	7	5	1	0	15	13	3	0	0	68	125	68	51	53	Birmingham ...
0	7	6	6	12	3	11	10	3	4	2	10	6	4	8	3	12	5	9	2	17	7	5	1	0	15	13	3	0	0	66	97	76	57	69	Richmond (Kew Obs.) ...
0	7	6	6	12	3	11	10	3	4	2	10	6	4	8	3	12	5	9	2	17	7	5	1	0	15	13	3	0	0	66	97	76	57	69	Southampton ...
2	11	5	6	7	5	7	9	8	2	2	10	10	4	4	11	1	5	10	12	3	9	7	5	0	12	14	5	0	0	48	103	66	60	88	Renfrew ...
4	9	5	9	7	5	10	7	5	4	2	10	10	6	2	11	9	5	6	0	11	8	4	7	0	18	8	5	0	0	96	100	71	61	37	Eskdalemuir ...
4	8	3	5	12	2	9	7	5	8	1	8	7	6	8	7	13	6	5	0	13	10	4	3	0	13	10	8	0	0	76	104	74	48	63	Douglas ...
1	9	3	4	14	3	10	6	7	5	2	5	7	10	6	4	11	9	7	0	13	10	4	3	0	12	13	6	0	0	74	103	69	49	70	Southport ...
1	10	5	5	10	3	10	11	3	4	3	6	9	4	8	6	12	5	8	0	12	9	5	4	0	15	12	4	0	0	80	115	67	49	54	Stonyhurst ...
2	6	4	8	11	4	10	6	7	4	1	9	7	7	6	5	12	7	6	1	13	10	3	4	0	16	8	7	0	0	78	105	58	60	64	Holyhead ...
1	4	4	6	16	3	10	4	6	8	4	6	3	8	9	4	12	7	8	0	10	14	4	2	0	9	16	6	0	0	52	110	64	58	81	Falmouth ...
3	9	5	6	8	5	12	6	8	0	7	5	11	5	2	11	17	0	3	0	13	11	5	1	0	10	21	0	0	0	85	139	57	42	42	Markree Castle ...
2	10	8	4	7	3	13	9	4	2	2	11	6	6	5	8	13	7	1	2	11	14	2	3	0	16	10	5	0	0	86	119	70	44	46	Armagh ...
1	9	7	8	6	3	9	11	5	3	0	9	6	8	7	5	15	6	2	0	14	11	1	4	0	10	13	8	0	0	67	121	70	53	54	Dublin (Ph.Pk.) ...
1	6	11	3	10	4	9	10	6	2	0	12	4	8	4	8	15	6	1	0	20	3	5	2	0	17	8	6	0	0	88	113	71	47	46	Birr Castle ...
2	8	6	5	10	5	9	8	7	2	6	7	5	6	6	11	9	9	2	0	14	9	5	2	0	14	15	1	0	0	85	120	61	45	54	Cahiriveen (Val. Obs.) ...

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.	
1, 3	52	8, 10	54	16th	52	2, 3, 19	52	13th	48	7th	54	23rd	43	10th	52	27th	38	24th	47	28, 29	40	6th	48	Mar. 7	34	July 8, 10, Sept. 7	54	Deerness.
28th	57	9th	59	11, 29	56	1st	57	12th	53	6th	56	22nd	43	9, 18	56	27th	33	24th	47	4, 28	41	6, 8	49	Nov. 27	33	July 9	59	Fort William.
1st	54	10th	61	12, 29	54	1st	57	29th	51	7th	58	21st	41	18th	56	7th	36	16th	47	29th	38	6th	50	Jan. 24	35	July 10	61	Aberdeen.
29th	56	9th	61	29th	52	1st	60	17th	54	23rd	55	24th	46	6th	56	7th	37	17, 19, 23	41	24th	38	6, 8	47	Jan. 15, Feb. 4, 8, 20, Nov. 7	37	July 9	61	Cockle Park.
4th	61	23rd	64	12, 21	63	2nd	63	19th	59	10th	59	24th	50	4th	60	27th	30	4th	45	5th	37	19th	50	Nov. 27	30	July 23	64	Cambridge.
4, 29	64	23rd	66	10th	59	1st	62	17th	58	23rd	58	23rd	45	3rd	59	8th	35	4th	46	4th	34	19th	49	Dec. 4	34	July 23	66	Birmingham.
4th	64	23rd	67	21st	62	1st	65	17th	61	14th	62	24th	49	3rd	62	27th	35	4th	48	4th	37	19th	51	Nov. 27	35	July 23	67	Richmond.
1st	67	20th	64	4, 14, 17, 21	66	1st	61	17th	59	24th	62	24th	51	10th	62	8th	37	1, 4	52	3, 4	39	9, 19	51	Feb. 7	37	July 20	64	Southamp- ton.
28th	53	8, 11, 60	29th	51	1, 2	57	13, 17	53	6th	57	22nd	41	6th	59	27th	34	24th	46	4th	26	6th	51	Dec. 4	26	July 8, 11, 19	60	Renfrew.	
29th	56	19th	60	29th	51	1st	58	13th	52	22nd	54	22nd	40	6th	57	27th	33	23rd	45	29th	36	10th	47	Nov. 27	33	July 19	60	Eskdalemuir.
4, 23, 30	60	19th	62	5, 12, 31	57	1, 8	58	13, 17	56	23rd	60	23rd	44	6, 10	58	8th	39	4th	53	3, 4, 29	42	6, 10	51	Nov. 8	39	July 19	62	Douglas.
1, 3	64	19, 20	64	31st	57	1st	63	17th	57	23rd	62	23rd	45	8th	59	26th	35	4th	49	4th	36	22nd	49	Nov. 26	35	July 19, 20	64	Southport.
21st	61	20th	63	11th	58	1st	61	15th	56	23rd	59	23rd	46	6, 11	59	26th	39	1st	46	3, 4	41	9, 10	48	Feb. 6, 7	38	July 20	63	Stonyhurst.
29th	60	14th	62	12th	59	1, 18	59	17th	58	23rd	58	23rd	48	10th	61	21st	43	4th	55	3rd	42	9th	53	Feb. 7	38	July 14	62	Holyhead.
27th	63	20th	65	21st	61	1st	62	17th	57	14th	61	24th	54	3, 5	60	18th	44	4th	58	4th	40	18, 28	52	Dec. 4	40	July 20	65	Falmouth.
28th	58	8th	62	28, 29	57	1st	56	17th	57	1st	57	23rd	51	5th	58	12, 19, 20, 21	45	23rd	53	28th	44	9th	51	Feb. 7	41	July 8	62	Markree Castle.
28th	55	9th	66	29th	55	1st	60	17th	54	22nd	60	23rd	46	5th	59	12th	41	23rd	53	29th	41	9, 10	51	Ja. II-13	40	July 9	66	Armagh.
28, 29	64	19th	63	21st	59	1st	63	17th	56	22, 23	60	23rd	48	5th	52	8th	43	23rd	54	4th	43	6, 9	52	Jan. 13	41	July 19, Aug. 1	63	Dublin.
28th	58	9th	65	9th	58	1st	60	14th	57	22nd	61	22nd	49	2nd	60	8th	43	3, 24	54	29th	42	9th	52	Feb. 10	39	July 9	65	Birr Castle.
28th	58	8th	65	21st	57	18th	59	14th	58	22nd	60	24th	53	3rd	62	8th	49	1st	57	2nd	48	5th	54	Jan. 13	44	July 8	65	Cahiriveen.

TABLE IX. [1913].—NUMBER of DAYS in the YEAR with MAXIMUM and MINIMUM TEMPERATURES between given limits.

STATION.	MAXIMUM TEMPERATURE.								MINIMUM TEMPERATURE.								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 86°.	Above 86°.	5° or less.	6° to 14°.	15° to 23°.	24° to 32°.	33° to 41°.	42° to 50°.	51° to 59°.	Above 59°.		32° or less.	33° to 41°.	42° to 50°.	51° to 59°.	60° to 68°.	69° to 77°.	78° to 86°.	Above 86°.	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	20	148	182	14	1	0	0	0	0	0	23	142	174	26	0	Douglas ...	0	6	122	120	98	18	1	0	0	0	0	0	9	108	154	92	2
Fort William	0	22	115	122	72	32	2	0	0	0	2	36	128	151	48	0	Southport ...	0	20	102	104	98	37	4	0	0	0	0	28	87	143	98	0	
Aberdeen ...	0	28	122	129	69	13	4	0	0	0	0	31	135	145	53	1	Stonyhurst ...	0	20	107	103	92	37	6	0	0	0	0	32	116	135	73	8	
Cockle Park	0	28	98	118	91	27	3	0	0	0	0	48	152	120	43	2	Holyhead ...	0	2	101	119	117	25	1	0	0	0	0	4	68	159	129	5	
Cambridge	2	12	73	97	77	71	29	4	0	0	2	46	135	98	75	9	Falmouth ...	0	1	47	152	114	44	7	0	0	0	0	4	80	128	130	23	
Birmingham	0	25	86	87	97	47	21	2	0	0	0	28	116	138	74	9	Markree Castle	0	1	71	159	97	29	8	0	0	0	0	37	120	139	65	4	
Richmond	0	21	72	90	83	69	27	3	0	0	1	30	109	130	72	23	Armagh ...	0	9	81	135	101	30	9	0	0	0	0	22	132	132	72	7	
(Kew Obs.																	Dublin	0	3	70	138	112	36	6	0	0	0	4	37	125	130	62	7	
Southampton	0	10	62	103	80	89	15	6	0	0	0	31	108	129	82	15	(Phoenix P.)																	
Renfrew ...	1	26	98	120	88	29	3	0	0	0	6	36	120	131	68	4	Birr Castle	0	4	88	132	94	37	10	0	0	0	1	31	104	137	80	12	
Eskdalemuir	1	43	122	106	69	20	4	0	0	0	24	72	136	101	31	1	Cahiriveen	0	0	71	175	93	23	3	0	0	0	0	4	61	171	112	17	
																	(Val. Obs.)																	

TABLE X.—RAINFALL AT CERTAIN ADDITIONAL STATIONS, YEAR, 1921.

[illegible]

* For the heights of the stations see the Monthly Tables or *British Rainfall*, 1920.

TABLE XI.

PARTICULARS OF ANEMOGRAPHS.

District and Station.	Type	Anemograph in action from	"Analysis" pub- lished from	Height of Vane or Cups.			NOTES.
				Above Mean Sea Level.	Above Ground.	Above Building.	
				Ft.	Ft.	Ft.	
0. Deerness ...	R	1862	1909	188	16	5	An anemometer was erected at Sandwick Manse in 1862, and remained in operation until June, 1869, when it was replaced by the instrument now at Deerness, which remained at Sandwick until 1885; it was at Swanbister, 1886-1890, at Stenness, 1890-1, and was erected at Deerness in April, 1891.
1. Dyce ...	D	1914	1915	305	75	15	The anemograph at Dyce is in a wood with the head about 15ft. over the tree tops.
Aberdeen ...	R	1868	1909	120	72	12	
" ...	D	1907	1909	153	105	52	The Dines tube-anemometer was dismantled on February 5th, 1920.
Balmakewan ...	D	1915	1915	140	25	18	
Rosyth ...	D	1911	1912	85	73	19	
Edinburgh ...	D	1915	1915	485	39	31	
2. Alnwick Castle...	D	1906	1911	340	70	17	Records of a Robinson cup-anemometer exposed at Alnwick Castle were received and tabulated from March, 1870, to December, 1906.
South Shields ...	D	1909	1911	72	61	12	Records of a Robinson cup-anemometer exposed on the High Lighthouse at N. Shields were received and tabulated from September, 1886 to 1910.
Spurn Head ...	D	1913	1914	67	41	†	Records restarted 8th October, 1921.
Cranwell ...	A	1916	1920	278	43	31	Records from the instrument at this station were defective from January to May, 1921.
Howden ...	D	1916	1920	61	41	29	Records from the instrument at this station were defective in January and February. Station closed down December, 1921.
3. Gorleston ...	D	1908	1909	52	42	†	
Felixstowe ...	A	1918	1920	58	40	23	Records from the instrument at this station were first received on May 1st, 1920.
Shoeburyness ...	D	1902	1909	103	90	†	Records from the instrument at this station were defective in July and August, 1921.
4. Benson ...	D	1914	1915	270	84	†	Particulars and photograph of the instrument at Benson will be found on page 82 of the Observer's Handbook.
5. Brighton ...	D	1908	1909	261	53	6	Records from the instrument at this station were defective in March, April and July, 1921; anemometer dismantled August to November, 1921, inclusive.
Calshot ...	A	1917	1920	45	40	31	
Larkhill ...							The anemometer at Butler's Cross was dismantled in April, 1920, and removed to Larkhill; the "building" on which it now stands is an ancient tumulus.
Salisbury Plain ...	A	1920	1920	513	63	43	
Richmond ...							For illustration shewing exposure see Circular 001J.
(Kew Obs.) ...	R	1868	1909	82	65	7	
" of Grain" ...	D	1896	1914	82	65	22	Records from the instrument at this station were received as from December 1st, 1920. Records defective June, August to October, 1921, inclusive.
" of Grain" ...	A	1920	1921	65	45	30	
6. Eskdalemuir ...	D	1911	1911	825	50	22	For illustration shewing exposure see Circular 001J.
Paisley ...	D	1914	1914	188	81	15	
7. Fleetwood ...	R	1886	1909	109	44	—	
Southport ...	D	1907	1909	80	62	48	
Holyhead ...	R	1870	1909	50	25	—	
" ...	D	1895	1914	60	40	†	
8. Falmouth ...	R	1868	1909	208	41	13	The position of the observatory at Falmouth was changed in May, 1885. The heights were previously (a) above M.S.L., 230 ft.; (b) above ground, 40 ft. The direction given for Pendennis is taken from the cup-anemometer at Falmouth.
Pendennis Castle	D	1902	1909	256	65	24	Instrument under repair June, 1921.
Plymouth ...	D	1908	1909	185	88	2	The "average" in Table XII. is for eleven years only; 1911 and 1915 records unreliable.
Lyme Regis ...	A	1916	1916	556	61	†	Records from this instrument were defective during March and April, 1921.
9. Armagh ...	R	1868	1909	246	50	—	
10. Kingstown ...	R	1900	1909	49	27	—	A Robinson cup-anemometer of the original pattern was in operation at Kingstown from 1856 to 1895.
Baldonnell ...	A	1921	1921	321	42	31	Records from this instrument were first received on September 1st, 1921.
Quilty ...	D	1911	1911	100	40	†	
Weaver Point ...	D	1905	1909	160	30	†	The anemometer was situated at Roches Point from 1905 to July, 1914, when it was moved to Weaver Point off the West of Cork Harbour.
Cahiriveen (Val. Obs.)	R	1868	1909	75	45	7	The original site of the observatory was on Valencia Island. The heights were: (a) above M.S.L., 50 ft.; (b) above ground, 48 ft. It was removed to Cahirciveen in March, 1892.
" ...	D	1917	1917	98	41	†	
11. Scilly ...	R ¹	1879	1909	150	19	—	The iron mast of the Dines tube-anemometer at Scilly is erected beside the stone pillar which carries the Robinson anemometer. The records for 1921 are unreliable the instrument being out of adjustment.
" ...	D	1895	1909	150	32	†	

A Anemobiograph. R Robinson cup-anemometer: standard size, 9-in. cups, 2-ft. arms. Factor used, 2.2. R¹ Robinson cup-anemometer: smaller size, 5-in. cups, 1-ft. arms. Factor used 2.8 (probably too great at high speeds). D Dines tube-anemometer. † Standard mounting.

TABLE XII.* [First Published 1914].

DISTRIBUTION OF WINDS of stated speeds at anemograph-stations, and Maximum Speeds for the year.

The distribution of wind is not given if the record failed for 366 hours or more.

DISTRICT AND STATION.	Distribution of Wind.†									Extreme Velocities.										
	More than 17 m/s, or 39 mi/hr.			11 to 17 m/s. 25 to 38 mi/hr.		6 to 10 m/s.	2 to 5 m/s.	Less than 2 m/s.	No Record.	Highest Hourly Wind.						Highest Gust.				
	No. of Days.	Duration 1921.	% Average.	No. of Days.	Duration.	Duration.	Duration.	Duration.	Duration.	Direction and Speed.			Mid. Time.			Speed.		Date.		
		hr.	hr.		hr.	hr.	hr.	hr.	hr.	°	m/s.	mph	month.	day.	hour.	m/s.	mph	month.	day.	h. m.
0. Deerness ...	25	107	104	172	1,428	3,735	2,996	448	46	260	26	59	Dec.	17	5	—	—	—	—	—
1. Aberdeen (Cup Anr.)	0	0	2.2	25	93	1,568	5,893	1,206	0	310	15	33	Dec.	6	24	—	—	—	—	—
Balmakewan	2	6	1.7	28	62	1,920	4,271	2,283	218	360	19	41	Dec.	30	21	32	70	Jan.	21	21 5
Rosyth ...	4	9	12	93	567	3,145	3,478	1,492	69	230	19	42	Dec.	17	3	30	68	Dec.	17	3 0
Edinburgh ...	9	28	23	89	527	2,925	3,643	1,637	0	250	19	43	Dec.	17	4	33	74	Dec.	30	5 5
6. Eskdalemuir ...	18	55	57	99	750	2,352	3,285	2,302	16	130	21	46	Jan.	21	15	31	68	Jan.	18	10 15
Paisley ...	0	0	0.4	28	97	2,309	4,706	1,501	147	180	21	46	Mar.	16	9	—	—	—	—	—
2. Alnwick Castle	1	1	0.1	16	52	1,145	4,074	3,159	329	190	16	36	Mar.	15	11	32	72	Jan.	18	14 20
South Shields	2	10	23	57	287	2,218	4,372	1,873	0	230	17	38	Jan.	21	24	32	72	Jan.	22	1 10
3. Gorleston ...	3	5	14	73	442	3,513	3,990	794	16	290	21	46	Dec.	17	7	29	65	Dec.	21	12 0
Felixstowe ...	1	3	—	40	205	2,950	4,867	691	44	280	20	45	Nov.	6	8	35	77	Nov.	6	9 40
4. Benson ...	0	0	1.4	28	118	1,985	4,393	2,250	14	290	20	45	Nov.	6	9	29	65	Nov.	6	8 10
5. Brighton ...	0	0	0.7	18	80	2,324	4,755	1,490	111	270	15	34	Dec.	30	18	29	65	Dec.	30	18 20
Larkhill	5	27	—	92	448	4,024	3,802	233	186	270	22	50	Sept.	12	2	28	62	Sept.	12	1 20
Richmond (Kew Obs.)	0	0	0.3	8	27	1,497	4,852	2,354	30	220	13	28	Jan.	18	14	27	61	Jan.	18	11 15
7. Fleetwood ...	14	98	105	116	788	3,257	4,019	474	124	300	25	56	Jan.	18	22	—	—	—	—	—
Southport ...	21	109	129	125	1,114	3,388	3,700	449	0	280	24	53	Jan.	18	13	34	76	Jan.	18	19 25
Holyhead ...	8	59	108	143	1,164	4,161	2,919	408	49	300	26	58	Dec.	30	22	34	75	Dec.	30	19 20
8. Plymouth ...	9	33	41	61	422	2,489	4,226	1,376	214	—	20	45	Mar.	14	9	30	67	Mar.	14	8 55
10. Kingstown ...	10	38	69	149	935	3,514	3,508	718	47	250	23	51	Dec.	30	19	—	—	—	—	—
Quilly ...	9	44	67	135	1,163	4,064	2,810	544	135	—	21	46	Jan.	18	13	32	72	Jan.	18	11 40
Cahiriveen	3	7	24	86	619	3,641	3,222	1,170	101	230	19	43	Dec.	28	1	31	69	Dec.	30	15 5
Weaver Point	11	29	60	105	651	3,565	4,132	334	49	—	19	43	Nov.	30	6	31	70	Jan.	18	7 20
11. Scilly ...	21	87	165	122	1,018	3,250	3,740	519	146	270	23	51	Jan.	10	18	—	—	—	—	—

* A similar Table for Cup-anemographs only was first published in 1909.

† More exactly the ranges adopted for this classification are > 17.1, 10.8 to 17.1, 5.5 to 10.7, 0 to 5.4 m/s.

‡ This average is for a period from the first year of analysis to 1921. Vide "First Analysis" in Table XI.

§ Also with veer 180° on March 15 at 12 h.

TABLE XIII. [First published 1914].—DISTRIBUTION OF DAYS on which maximum hourly wind (a) exceeded 17 m/s and (b) exceeded 11 m/s.

DISTRICT AND STATION.		More than 17 m/s or 39 mi/hr.†												More than 11 m/s or 24 mi/hr.†													
		Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Year.	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept	Oct.	Nov.	Dec.	Year
		Number of Days.												Number of Days.													
0.	Deerness ...	6	3	3	2	0	0	0	0	1	3	1	6	25	26	19	22	14	11	7	7	3	8	15	18	22	172
1.	Dyce ...	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
	Aberdeen ...	0	0	0	0	0	0	0	0	0	0	0	0	0	3	1	8	1	0	1	0	0	0	1	4	6	25
	Balmakewan ...	1	0	0	0	0	0	0	0	0	0	0	1	2	5	0	6	2	1	1	1	0	3	0	8	28	
	Rosyth ...	1	0	2	0	0	0	0	0	0	0	0	1	4	19	6	20	5	3	4	3	5	8	1	16	93	
	Edinburgh ...	4	0	2	0	0	0	0	0	0	0	0	3	9	23	4	19	5	1	1	3	2	4	7	3	17	89
6.	Eskdalemuir ...	7	1	3	0	0	2	0	0	0	3	0	2	18	22	6	20	5	3	4	3	2	6	10	3	15	99
	Paisley ...	0	0	0	0	0	0	0	0	0	0	0	0	0	8	2	6	1	0	2	1	0	0	2	0	6	28
2.	Alnwick ...	1	0	0	0	0	0	0	0	0	0	0	0	1	4	1	4	1	0	0	0	0	0	0	1	5	16
	South Shields ...	0	0	0	0	0	0	0	0	0	0	0	2	2	11	3	9	3	0	3	0	0	1	5	7	15	57
	Cranwell ...	0	—	—	—	0	—	—	0	0	0	1	0	—	10	—	—	—	2	—	—	2	1	4	5	13	—
	Howden ...	—	—	0	0	0	0	0	0	0	0	0	—	—	—	—	10	8	1	3	1	2	1	5	3	—	—
3.	Gorleston ...	1	0	0	0	0	0	0	0	0	0	1	1	3	7	0	11	10	8	5	3	3	5	3	7	11	73
	Felixstowe ...	0	0	0	0	0	0	0	0	0	0	1	0	1	8	0	3	5	3	2	1	2	4	2	2	8	40
	Shoeburyness ...	0	0	0	0	0	0	—	—	0	0	0	0	—	6	0	3	3	2	0	—	—	4	1	2	7	—
4.	Benson ...	0	0	0	0	0	0	0	0	0	0	0	0	0	9	0	7	2	0	0	1	2	0	0	1	6	28
5.	Calshot ...	0	0	—	—	0	0	—	—	—	—	—	2	—	14	2	—	—	5	3	—	—	—	—	—	—	—
	Brighton ...	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	1	1	1	0	1	0	3	1	1	7	18
	Larkhill ...	2	0	0	0	0	0	0	0	0	0	0	3	5	19	3	19	6	2	3	4	6	4	4	7	15	92
	Richmond ...	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	2	0	0	0	0	0	1	0	0	3	8
	Isle of Grain ...	—	—	0	0	0	—	0	—	—	—	1	1	—	—	—	7	7	4	—	2	—	—	—	—	4	7
7.	Fleetwood ...	2	0	0	1	0	3	0	0	0	3	5	14	18	4	16	8	7	10	4	13	7	8	7	14	116	
	Southport ...	5	0	1	1	0	2	0	0	0	2	2	8	21	19	5	19	9	4	10	8	13	6	8	5	19	125
	Holyhead ...	2	0	0	1	0	0	0	0	0	1	4	8	21	5	24	13	5	8	6	13	7	5	13	23	143	
8.	Pendennis ...	6	2	7	2	2	1	3	3	3	2	8	6	45	21	11	22	20	14	7	11	13	12	11	26	21	189
	Plymouth... ..	4	0	3	0	0	0	0	0	0	2	0	9	15	2	11	2	6	1	1	5	2	2	7	7	61	
	Lyme Regis ...	0	0	0	0	0	0	0	0	0	0	0	0	0	4	2	1	0	0	1	1	0	0	4	4	18	
10.	Kingstown ...	6	0	0	0	1	0	0	0	0	0	1	2	10	22	7	22	9	8	7	10	6	6	21	22	149	
	Quilty ...	4	0	1	0	0	0	0	0	0	0	0	4	9	21	7	24	9	12	3	7	13	2	4	15	18	135
	Cahiriveen ...	0	0	0	0	0	0	0	0	0	0	0	3	3	16	4	14	5	5	0	4	7	2	5	13	11	86
	Weaver Point ...	2	1	4	0	0	0	0	0	0	0	3	1	11	17	6	16	7	8	3	7	5	4	4	16	12	105
11.	Scilly ...	3	0	3	1	0	0	2	0	0	1	6	5	21	17	9	18	11	6	2	3	9	4	4	20	19	122

† A day is counted in the first division of Table XIII, if the mean speed for at least one complete period of 60 minutes centering at an exact hour of G.M.T. exceeds 17.1 m/s. All days in the first division are also included in the second which contains days on which the mean speed for any such period exceeds 10.8 m/s.

TABLE XIV. [First published 1900*].—OCCASIONS ON WHICH MEAN HOURLY WIND was 21 m/s. (47 mi/hr) or more.

For an anemometer at 33 ft. above ground in the open the limit corresponds with that of Force 9 (Strong Gales) on the Beaufort Scale. A wind of 21 m/s exerts upon a plate exposed normally to it, pressure on the front and suction on the back of which the resultant is about 3.2 mb. ($6\frac{1}{2}$ lb. wt. per sq. ft.).

The pressure equivalents of winds of stated velocities are given in Table XXII., p. 172.

[The highest Mean Velocity measured in this way which has been recorded at M.O. stations in the British Isles is 35 m/s. (78 mi/hr.) at Fleetwood on 22nd December, 1894, corresponding with a pressure of about 8.8 mb. (18 lb. wt. per square foot).]

District and Station.	Date	Maximum Hourly Wind.			Maximum Speed in a gust during period when wind was of gale force			Hours for which mean speed exceeded 17 m/s.
		Direction.	Hour.	Speed.	Time.	Speed.		
		°		m/s mi/hr	h. m.	m/s. mi/hr.		
0. Deerness ...	April 14 ...	340	2	22 50	—	—	—	23h. 13th to 4h. 14th.
	December 17	260	5	26 59	—	—	—	2h. to 13h.
	" 18	290	2	25 55	—	—	—	19h. 17th to 4h. 18th.
	" 20	260	10	26 57	—	—	—	5h. to 21h.
5. Larkhill ...	January 18 ...	270	10	22 50	10 35	35	78	7h. to 13h.
7. Fleetwood	January 18 ...	300	22	25 56	—	—	—	8h. 18th to 5h. 19th.
	" 19 ...	320	3	23 51	—	—	—	8h. 18th to 5h. 19th.
	April 14 ...	300	7	22 48	—	—	—	4h. to 17h.
	June 10 ...	310	7	23 52	—	—	—	3h. to 10h.
	December 20	260	14	21 47	—	—	—	11h. to 18h.
	" 30	270	18	23 52	—	—	—	16h. 30th to 3h. 31st.
Southport...	January 18 ...	280	13	24 53	19 25	34	76	8h. 18th to 1h. 19th.
	December 20	270	12	22 49	8 20	29	65	6h. to 18h.
	" 28	280	14	21 47	11 40	29	65	12h. to 23h.
	" 30	260	20	23 50	19 55	32	72	7h. 30th to 3h. 31st.
Holyhead	January 18 ...	300	20	24 53	19 40	33	73	8h. 18th to 3h. 19th.
	" 19	310	1	21 47	0 30	27	60	8h. 18th to 3h. 19th.
	December 30	300	22	26 58	19 20	34	76	15h. 30th to 3h. 31st.
8. Pendennis Castle.	January 10 ...	220	11	22 50	18 10	30	68	6h. to 18h.
	March 28 ...	230	18	25 55	19 15	32	70	8h. to 19h.
	" 29 ...	300	12	21 48	8 45	34	77	6h. to 14h.
	September 17	70	5	22 48	12 10	26	59	23h. 16th to 19h. 17th
	November 13	—	23	21 47	23 25	26	57	13h. 13th to 13h. 14th
	" 14	—	2	22 50	1 30	27	61	13h. 13th to 13h. 14th.
	December 27	—	24	22 50	23 30	30	67	19h. 27th to 9h. 28th.
	" 28	—	4	24 54	3 30	31	69	19h. 27th to 9h. 28th.
	" 30	—	13	23 51	12 20	31	68	11h. to 19h.
10. Kingstown	January 18 ...	230	4	21 48	—	—	—	22h. 17th to 6h. 18th.
	December 30	250	19	23 51	—	—	—	18h. to 20h.
11. Scilly	January 2 ...	290	14	21 47	—	—	—	14h. to 15h.
	" 10	270	18	23 51	—	—	—	17h. to 19h.
	" 18	300	14	22 49	—	—	—	3h. to 24h.
	July 28 ...	290	24	21 47	—	—	—	23h. 28th to 7h. 29th.
	" 29	290	2	22 49	—	—	—	23h. 28th to 7h. 29th.
	December 22	280	17	22 49	—	—	—	13h. to 21h.
	" 30	290	23	23 50	—	—	—	13h. 30th to 2h. 31st.

* For the years 1900 to 1904 the table of "Strong Gales" was given in the Annual Report of the Meteorological Council and for 1905, 1906 in the Annual Summary of the Monthly Weather Report for those years. Prior to 1908 the limit of velocity was taken to be 44 miles per hour.

TABLE XV. [FIRST PUBLISHED 1908].—DATES on which GUSTS of 24·5 m/s. (55 mi/hr.) or more occurred.

For an anemometer at 33ft. above ground in the open the limit corresponds with that of Force 10 (Storm) on the Beaufort Scale.

A wind of 24·5 m/s. exerts upon a plate exposed normally to it, pressure on the front and suction on the back of which the resultant is about 4·4 mb (9 lb. weight per square foot).

Up to 1916 fuller details were given in this table. The time of occurrence of the maximum gust each week or each month can be found by reference to the W.W.R. or M.W.R.

1. Dyce	Dec. 17.
Balmakewan	Jan. 21, Dec. 17, 30.
Rosyth	Jan. 17, 18, 21, 22, 28; Mar. 15, 16; Apr. 14; July 26; Aug. 27; Sept. 11, 14; Oct. 31; Dec. 6, 17, 19, 20, 21, 27, 30.
Edinburgh	Jan. 3, 6, 8, 17, 21, 22, 28; Feb. 15; Mar. 10, 15, 16; Aug. 26, 27; Oct. 31; Dec. 17, 19, 20, 21, 26, 30.
6. Eskdalemuir	Jan. 3, 6, 17, 18, 19, 21, 22, 28, 29, 30; Feb. 13, 15; Mar. 3, 10, 15, 16, 23; June 9, 10; Aug. 27; Oct. 28, 29; Dec. 17, 19, 20, 28, 30.
Paisley	Jan. 4, 6, 17, 18, 22, 29; Feb. 27, 28; Mar. 10, 15, 16; May 30; June 9; Dec. 17, 19, 20, 21, 30.
2. Alnwick	Jan. 21, 22; Apr. 14; Dec. 17, 30, 31.
South Shields	Jan. 22; Apr. 14; Oct. 22; Dec. 6, 17, 20, 21, 27, 30.
Cranwell	Jan. 18; Dec. 28, 30.
3. Gorleston	Nov. 6; Dec. 28, 30, 31.
Felixstowe	Jan. 18; Nov. 6; Dec. 31.
Shoeburyness	Jan. 18; Nov. 6; Dec. 31.
4. Benson	Jan. 18; Dec. 30.
5. Calshot	Jan. 18.
Brighton	Sept. 12; Nov. 6.
Larkhill	Jan. 18; Dec. 22, 30, 31.
Richmond	Jan. 18; Dec. 30.
Isle of Grain	Nov. 6; Dec. 30, 31.
7. Southport	Jan. 10, 18, 19, 22; Mar. 27, 28; Nov. 6; Dec. 19, 20, 21, 28, 29, 30, 31.
Holyhead	Jan. 10, 18, 19, 21; Apr. 9, 14; Nov. 6, 13, 14; Dec. 20, 28, 30, 31.
8. Pendennis	Jan. 10, 12, 18, 30; Feb. 4, 5; Mar. 14, 16, 28, 29; May 30; July 29; Sept. 17; Oct. 2; Nov. 5, 6, 13, 14, 26; Dec. 19, 22, 23, 26, 27, 28, 29, 30, 31.
Plymouth	Jan. 10, 18; Mar. 14; Nov. 14; Dec. 30.
Lyme Regis	Jan. 18.
10. Quilty	Jan. 10, 18; Mar. 10, 16, 28; Dec. 22, 23, 27, 28, 29, 30.
Cahiriveen	Jan. 18; Feb. 4; Mar. 12, 15, 16, 17, 28, 29; Nov. 9, 29, 30; Dec. 20, 22, 23, 27, 28, 30.
Weaver Point	Jan. 6, 10, 18; Feb. 4; Mar. 10, 12, 15, 16, 28; Nov. 13, 30; Dec. 19, 27, 28.

NOTES.

The Table of Wind Force at Holyhead by the Disc-Dynamometer is again omitted this year. The Dynamometer at Holyhead which was dismounted in September, 1916, did not come in action again until the end of July, 1918. The results of observations since that date are under discussion.

A short list of the gales of the year is to be found on page 169.

Stormy winds were experienced mainly in the first and last months of the year.

As will be seen from Table XII the number of hours in which the recorded wind averaged 17 m/s. or more was about normal in Scotland but below the normal in England and Ireland.

TABLE XVI. [1912]. (a.) MAXIMUM SPEED in a Gust during each Month of 1921. (Highest speed in a gust recorded at M.O. Stations in the British Isles > 50.0 m/s. at Quilty, January 27th, 1921.) (b.) HIGHEST SPEED in a Gust recorded by the tube-anemographs.

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	G. (Mean of Monthly Maxima.)	Highest Gust on Record.	
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	Speed.	Date.
1. Dyce ...	22	19	23	21	19	21	14	16	16	18	19	26	20	34	Jan. 13 1916
Balmakewan ...	32	17	24	23	16	21	21	19	18	24	20	27	22	37	Oct. 25 1917
Rosyth ...	29	24	30	26	24	23	26	26	27	25	20	30	26	38	Nov. 26 1912
Edinburgh ...	30	25	30	23	22	22	26	23	26	22	22	33	25	36	Oct. 14 1916
6. Eskdalemuir ...	31	27	30	24	23	28	23	25	23	28	21	28	26	40	Oct. 25 1917
Paisley ...	32	25	31	23	31	26	20	21	23	24	19	31	26	36	Jan. 8 1920
2. Alnwick ...	32	22	22	25	15	20	18	14	15	20	20	30	21	33	Nov. 5 1911
South Shields ...	29	23	22	25	19	22	19	17	20	25	22	29	23	36	Apr. 8 1912
Cranwell ...	26	—	—	17	—	—	—	17	17	18	23	25	20	26	Jan. 18 1921
Howden ...	—	—	21	22	17	18	17	17	17	18	22	—	19	22	Nov. 6 1921
3. Gorleston ...	24	17	20	24	20	24	22	18	19	22	35	29	23	35	Nov. 6 1921
Felixstowe ...	25	14	21	23	18	19	21	17	20	21	29	25	21	29	Nov. 6 1921
Shoeburyness ...	27	14	20	19	17	15	—	—	19	19	27	26	20	34	Dec. 28 1914
4. Benson ...	25	14	23	17	16	18	17	19	18	17	24	29	20	31	Feb. 16 1916
5. Calshot ...	25	18	—	—	20	20	—	—	—	—	—	—	24	21	Jan. 16 1915
Brighton ...	23	17	20	20	18	18	19	16	28	21	25	24	21	25	Jan. 18 1921
Larkhill ...	35	17	21	19	17	15	18	18	20	18	22	30	21	35	Nov. 5 1916
Richmond ...	27	13	22	17	16	17	17	19	21	17	22	26	20	32	Jan. 18 1921
Isle of Grain ...	—	—	18	21	16	—	22	—	—	—	27	29	22	29	Mar. 28 1916
7. Southport ...	34	18	26	24	23	24	22	23	21	23	25	32	25	40	Dec. 30 1921
Holyhead ...	33	18	24	26	23	20	20	21	20	22	27	34	24	39	July 14 1914
8. Pendennis ...	30	26	34	22	27	23	29	24	26	25	27	31	27	46	Feb. 16 1916
Plymouth ...	26	22	30	22	20	20	20	20	20	19	26	28	23	39	Mar. 14 1905
Lyme Regis ...	28	19	—	—	15	16	18	16	17	14	18	22	18	32	Dec. 27 1915
10. Quilty ...	32	22	29	23	22	18	21	19	19	23	24	32	24	> 50	Oct. 27 1916
Cahiriveen ...	30	26	28	24	20	15	21	20	18	21	29	31	24	35	Nov. 5 1916
Weaver Point ...	31	25	28	22	24	18	22	20	20	22	26	28	24	39	Jan. 27 1920
															Feb. 1 1918
															Dec. 18 1911

TABLE XVII [1912].—MAXIMUM VALUE of the MEAN SPEED for an Hour measured as in Table XIII. during each Month of 1921. (Highest mean speed recorded at M.O. Stations in the British Isles: 35 m/s. corresponding with a pressure of about 8.8 mb. at Fleetwood on 22nd December, 1894.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	H (Mean of Monthly Maxima.)	Gust Ratio G./H.
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	
0. Deerness R ...	19	18	20	22	14	14	14	15	18	20	19	26	18	—
1. Dyce D ...	10	8	8	8	8	8	6	6	6	8	8	10	8	2.5
Aberdeen R ...	13	11	13	13	9	13	10	10	10	11	14	15	12	—
Balmakewan D ...	18	11	13	14	11	11	11	11	11	13	11	19	13	1.7
Rosyth D ...	17	15	18	15	15	13	15	16	16	17	13	19	16	1.6
Edinburgh D ...	19	16	19	15	13	13	13	14	15	16	15	19	16	1.6
6. Eskdalemuir D ...	21	17	21	15	14	20	14	15	15	20	13	19	17	1.5
Paisley D ...	15	13	16	11	11	14	11	9	11	11	9	14	12	2.2
2. Alnwick D ...	17	11	13	14	8	10	9	6	7	11	12	16	11	1.9
South Shields D ...	17	14	14	16	10	13	11	10	17	14	15	21	14	1.6
Cranwell A ...	15	—	—	12	—	—	—	13	13	13	18	17	14	1.4
Howden A ...	—	—	13	15	11	13	12	11	12	13	16	—	13	1.5
3. Gorleston D ...	17	10	14	13	15	15	16	12	15	13	21	19	15	1.5
Felixstowe A ...	15	8	13	14	13	12	16	11	14	14	20	16	14	1.5
Shoeburyness D ...	13	10	13	14	12	10	—	—	13	11	17	14	13	1.5
4. Benson D ...	15	10	15	12	10	10	11	12	10	11	13	15	12	1.7
5. Calshot A ...	16	15	—	—	14	15	—	—	—	—	—	18	16	1.3
Brighton D ...	13	9	13	13	11	11	11	10	14	12	13	14	12	1.8
Larkhill A ...	22	13	17	14	13	13	14	14	16	13	17	20	16	1.3
Richmond D ...	13	8	11	10	10	12	9	10	12	10	10	12	10	2.0
Isle of Grain A ...	—	—	13	15	13	—	15	—	—	—	20	17	16	1.4
7. Fleetwood R ...	25	13	17	22	15	23	15	15	15	16	20	23	18	—
Southport D ...	24	14	18	19	15	19	16	17	16	18	18	23	18	1.4
Holyhead D ...	24	13	16	19	15	13	15	14	14	16	20	26	17	1.4
8. Falmouth R ...	13	10	12	9	9	7	10	10	8	10	11	13	10	—
Pendennis D ...	22	20	25	18	20	19	19	19	22	20	22	24	21	1.3
Plymouth D ...	20	14	20	14	17	11	15	15	13	14	20	15	16	1.4
Lyme Regis A ...	16	14	—	—	10	11	12	11	11	11	13	14	12	1.5
9. Armagh R ...	13	13	15	9	9	6	9	7	7	8	11	13	10	—
10. Kingstown R ...	21	17	16	15	18	14	16	13	14	13	17	23	16	—
Quilty D ...	21	15	18	15	16	13	15	13	12	16	17	20	16	1.5
Weaver Point D ...	17	17	19	13	15	13	16	13	12	13	19	18	15	1.6
Cahiriveen D ...	16	16	17	13	12	10	13	13	12	13	15	19	14	1.7
11. Scilly ...	23	17	20	14	15	15	22	14	14	19	20	23	18	—

D Dines tube-anemometer.

R Robinson cup-anemometer.

A Anemobiograph.

TABLE XVI. [1912]. (a.) MAXIMUM SPEED in a Gust during each Month of 1921. (Highest speed in a gust recorded at M.O. Stations in the British Isles > 50.0 m/s. at Quilty, January 27th, 1921.) (b.) HIGHEST SPEED in a Gust recorded by the tube-anemographs.

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	G. (Mean of Monthly Maxima.)	Highest Gust on Record.	
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.		Speed.	Date.
1. Dyce ...	22	19	23	21	19	21	14	16	16	18	19	26	20	34	Jan. 13 1916
Balmakewan ...	32	17	24	23	16	21	21	19	18	24	20	27	22	37	Oct. 23 1920
Rosyth ...	29	24	30	26	24	23	26	26	27	25	20	30	26	38	Nov. 26 1912
Edinburgh ...	30	25	30	23	22	22	22	26	23	26	22	33	25	36	Oct. 14 1916
6. Eskdalemuir ...	31	27	30	24	23	28	23	25	23	28	21	28	26	40	Oct. 25 1917
Paisley ...	32	25	31	23	31	26	20	21	23	24	19	31	26	36	Jan. 8 1920
2. Alnwick ...	32	22	22	25	15	20	18	14	15	20	20	30	21	33	Nov. 5 1911
South Shields ...	29	23	22	25	19	22	19	17	20	25	22	29	23	36	Apr. 8 1912
Cranwell ...	26	—	—	17	—	—	—	17	17	18	23	25	20	26	Jan. 18 1921
Howden ...	—	—	21	22	17	18	17	17	17	18	22	—	19	22	Nov. 6 1921
3. Gorleston ...	24	17	20	24	20	24	22	18	19	22	35	29	23	35	Nov. 6 1921
Felixstowe ...	25	14	21	23	18	19	21	17	20	21	29	25	21	29	Nov. 6 1921
Shoeburyness ...	27	14	20	19	17	15	—	—	19	19	27	26	20	34	Dec. 28 1914
4. Benson ...	25	14	23	17	16	18	17	19	18	17	24	29	20	31	Feb. 16 1916
Calshot ...	25	18	—	—	20	20	—	—	—	—	—	24	21	25	Jan. 16 1915
Brighton ...	23	17	20	20	18	18	19	16	28	21	25	24	21	33	Jan. 18 1921
Larkhill ...	35	17	21	19	17	15	18	18	20	18	22	30	21	35	Nov. 5 1916
Richmond ...	27	13	22	17	16	17	17	19	21	17	22	26	20	32	Jan. 18 1921
Isle of Grain ...	—	—	18	21	16	—	22	—	—	—	27	29	22	29	Mar. 28 1916
7. Southport ...	34	18	26	24	23	24	22	23	21	23	25	32	25	40	Dec. 30 1921
Holyhead ...	33	18	24	26	23	20	20	21	20	22	27	34	24	39	July 14 1914
8. Penzance ...	30	26	34	22	27	23	29	24	26	25	27	31	27	46	Feb. 16 1916
Plymouth ...	26	22	30	22	20	20	20	20	20	19	26	28	23	39	Mar. 14 1905
Lyme Regis ...	28	19	—	—	15	16	18	16	17	14	18	22	18	32	Dec. 27 1915
10. Quilty ...	32	22	29	23	22	18	21	19	19	23	24	32	24	> 50	Oct. 27 1916
Cahiriveen ...	30	26	28	24	20	15	21	20	18	21	29	31	24	35	Nov. 5 1920
Weaver Point ...	31	25	28	22	24	18	22	20	20	22	26	28	24	39	Jan. 27 1920
															Feb. 1 1918
															Dec. 18 1911

TABLE XVII [1912].—MAXIMUM VALUE of the MEAN SPEED for an Hour measured as in Table XIII. during each Month of 1921. (Highest mean speed recorded at M.O. Stations in the British Isles: 35 m/s. corresponding with a pressure of about 6.8 mb. at Fleetwood on 22nd December, 1894.)

District and Station.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	H (Mean of Monthly Maxima.)	Gust Ratio G./H.
	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.	m/s.		
0. Deerness R ...	19	18	20	22	14	14	14	15	18	20	19	26	18	—
1. Dyce D ...	10	8	8	8	8	8	6	6	6	8	8	10	8	2.5
Aberdeen R ...	13	11	13	13	9	13	10	10	10	11	14	15	12	—
Balmakewan D ...	18	11	13	14	11	11	11	11	11	13	11	19	13	1.7
Rosyth D ...	17	15	18	15	15	13	15	16	16	17	13	19	16	1.6
Edinburgh D ...	19	16	19	15	13	13	13	14	15	16	15	19	16	1.6
6. Eskdalemuir D ...	21	17	21	15	14	20	14	15	15	20	13	19	17	1.5
Paisley D ...	15	13	16	11	11	14	11	9	11	11	9	14	12	2.2
2. Alnwick D ...	17	11	13	14	8	10	9	6	7	11	12	16	11	1.9
South Shields D ...	17	14	14	16	10	13	11	10	17	14	15	21	14	1.6
Cranwell A ...	15	—	—	12	—	—	—	13	13	13	18	—	13	1.4
Howden A ...	—	—	13	15	11	13	12	11	12	13	16	—	13	1.5
3. Gorleston D ...	17	10	14	13	15	15	16	12	15	13	21	19	15	1.5
Felixstowe A ...	15	8	13	14	13	12	16	11	14	14	20	16	14	1.5
Shoeburyness D ...	13	10	13	14	12	10	—	—	13	11	17	14	13	1.5
4. Benson D ...	15	10	15	12	10	10	11	12	10	11	13	15	12	1.7
5. Calshot A ...	16	15	—	—	14	15	—	—	—	—	—	18	16	1.3
Brighton D ...	13	9	13	13	11	11	11	10	14	12	13	14	12	1.8
Larkhill A ...	22	13	17	14	13	13	14	14	16	13	17	20	16	1.3
Richmond D ...	13	8	11	10	10	10	9	10	12	10	10	12	10	2.0
Isle of Grain A ...	—	—	13	15	13	—	15	—	—	—	20	17	16	1.4
7. Fleetwood R ...	25	13	17	22	15	23	15	15	15	16	20	23	18	—
Southport D ...	24	14	18	19	15	19	16	17	16	18	18	23	18	1.4
Holyhead D ...	24	13	16	19	15	13	15	14	14	16	20	26	17	1.4
8. Falmouth R ...	13	10	12	9	9	7	10	10	8	10	11	13	10	—
Penzance D ...	22	20	25	18	20	19	19	19	22	20	22	24	21	1.3
Plymouth D ...	20	14	20	14	17	11	15	15	13	14	20	15	16	1.4
Lyme Regis A ...	16	14	—	—	10	11	12	11	11	11	13	14	12	1.5
9. Armagh R ...	13	13	15	9	9	6	9	7	8	8	11	13	10	—
10. Kingstown R ...	21	17	16	15	18	14	16	13	14	13	17	23	16	—
Quilty D ...	21	15	18	15	16	13	15	13	12	16	17	20	16	1.5
Weaver Point D ...	17	17	19	13	15	13	16	13	12	13	19	18	15	1.6
Cahiriveen D ...	16	16	17	13	12	10	13	12	13	15	19	19	14	1.7
11. Scilly ...	23	17	20	14	15	15	22	14	14	19	20	23	18	—

D Dines tube-anemometer.

R Robinson cup-anemometer.

A Anemograph.

TABLE XVIII [1917].—"WIND ROSE" DATA FOR TELEGRAPHIC STATIONS.—Frequency of winds of various strengths from different directions at 7h.

The following Tables incorporate the material used for drawing the "Wind-roses" shown on the Monthly Weather Report charts of mean pressure.

The tables show only eight possible directions for the wind. Observations at intermediate points are "thrown" alternately forward and backward. The categories Light Winds, Strong Winds and Gales are equivalent to the Beaufort Forces 1 to 3, 4 to 7, 8 to 12, respectively.

The instructions to observers for estimating wind-force on the Beaufort Scale are published in the Observer's Handbook and elsewhere. The conventional equivalents of the scale in terms of wind-speed at 10 metres above ground in the open will also appear in the Introduction to the Monthly Weather Report.

Wind-roses have been published in the Monthly Weather Report since 1884, but the present form, which indicates the strength as well as the direction of the winds, was not adopted until 1905.

LERWICK.

Months.		N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS			CALMS.
		Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January ...	...	1	2	0	1	1	0	0	0	0	1	0	0	2	4	0	5	6	1	1	1	2	0	1	1	11	15	4	1
February	...	0	1	0	0	2	0	0	0	0	0	1	0	4	5	1	2	1	0	2	3	0	0	4	0	8	17	1	2
March ...	...	0	1	0	0	0	0	0	1	0	1	0	0	4	6	0	3	5	0	3	4	0	1	0	0	12	17	0	2
April ...	...	5	2	1	1	0	0	0	0	0	0	0	0	5	1	0	2	1	0	2	3	0	0	1	0	15	8	1	6
May ...	...	5	0	0	1	0	0	0	0	0	2	0	1	4	3	0	3	7	0	1	1	0	1	0	0	17	11	1	2
June ...	...	3	3	0	1	1	0	1	0	0	0	0	0	1	0	0	3	3	0	5	3	0	2	1	0	16	11	0	3
July ...	...	1	0	0	5	3	0	1	0	0	1	0	0	2	1	0	4	4	0	3	1	2	1	1	0	18	10	2	1
August ...	...	6	1	0	3	1	0	1	0	0	1	0	0	2	0	0	2	3	0	2	3	0	2	1	0	19	9	0	3
September	...	1	2	0	2	0	0	2	0	0	0	0	0	1	4	0	1	5	1	3	2	1	2	1	0	12	14	2	2
October ...	...	0	0	0	3	2	0	0	0	0	0	0	0	2	1	0	4	3	1	2	7	0	1	3	1	12	16	2	1
November	...	1	1	0	1	3	0	0	0	0	1	2	0	3	8	0	2	5	0	1	0	0	0	0	1	9	19	1	1
December	...	2	2	0	0	0	0	1	0	0	0	0	0	2	3	0	1	5	1	2	7	1	1	2	1	9	19	3	0
Year ...	...	25	15	1	18	13	0	6	1	0	7	3	1	32	36	1	32	48	4	27	35	6	11	15	4	158	166	17	24

STORNOWAY.

January ...	1	2	0	1	1	0	1	0	0	0	0	0	0	5	0	3	5	0	0	7	0	0	3	0	6	23	0	2
February ...	0	0	0	1	0	0	1	0	0	0	1	0	0	7	0	3	2	0	3	3	0	1	1	0	9	14	0	5
March ...	0	1	0	0	0	0	0	1	0	0	1	0	4	6	0	2	6	1	2	3	0	1	2	0	9	20	1	1
April ...	2	2	0	0	0	0	2	1	0	0	0	0	6	0	0	4	1	0	5	1	0	0	1	0	19	6	0	5
May ...	1	2	0	0	1	0	1	1	0	0	1	0	2	4	0	1	2	0	5	3	0	1	1	0	11	15	0	5
June ...	3	0	0	2	1	0	0	0	0	1	0	0	2	0	0	4	4	0	2	2	0	3	1	0	17	8	0	5
July ...	2	0	0	5	0	0	2	0	0	1	1	0	2	0	0	1	4	0	0	5	0	2	1	0	15	11	0	5
August ...	1	0	0	4	1	0	2	1	0	2	0	0	2	0	0	4	0	0	4	0	0	2	1	0	21	3	0	7
September ...	3	0	0	1	0	0	1	0	0	0	1	0	2	3	0	3	3	0	3	2	0	1	1	0	14	10	0	6
October ...	1	0	0	1	2	0	1	1	0	0	1	0	2	4	0	5	4	0	2	3	0	0	3	0	12	18	0	1
November ...	1	1	0	1	0	0	0	0	0	0	3	0	0	5	0	1	2	1	0	0	0	1	2	0	4	13	1	12
December ...	1	1	0	0	0	0	0	2	0	1	0	0	1	4	1	3	2	0	2	5	3	1	2	0	9	16	4	2
Year...	16	9	0	16	6	0	11	7	0	5	9	0	23	38	1	34	35	2	28	34	3	13	19	0	146	157	6	56

TABLE XVIII (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

ABERDEEN.

Months.	N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS.			CALMS.
	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January ...	2	0	0	0	0	0	0	0	0	0	0	0	1	3	0	7	3	0	4	2	0	4	2	0	18	10	0	3
February ...	1	1	0	0	0	0	0	0	0	0	2	0	5	2	0	7	0	0	5	0	0	5	0	0	23	5	0	0
March ...	0	0	0	0	0	0	0	0	0	0	0	0	4	5	0	5	5	0	6	3	0	3	0	0	18	13	0	0
April ...	0	1	0	2	0	0	0	0	0	2	0	0	4	0	0	2	0	0	6	1	0	8	2	0	24	4	0	2
May ...	1	0	0	1	0	0	2	0	0	1	0	0	10	2	0	5	1	0	1	0	0	4	2	0	25	5	0	1
June ...	2	2	0	0	0	0	2	0	0	1	0	0	3	0	0	3	0	0	5	1	0	6	5	0	22	8	0	0
July ...	1	0	0	0	1	0	2	0	0	4	0	0	3	0	0	6	1	0	2	0	0	4	2	0	22	4	0	5
August ...	2	0	0	2	0	0	0	1	0	2	0	0	6	0	0	4	0	0	4	1	0	8	0	0	28	2	0	1
September ...	1	0	0	0	0	0	0	0	0	2	1	0	3	1	0	9	1	0	3	0	0	5	1	0	23	4	0	3
October ...	1	0	0	0	0	0	0	0	0	1	0	0	4	0	0	4	1	0	6	3	0	6	0	0	22	4	0	5
November ...	0	0	0	0	0	0	0	0	0	2	2	0	11	1	0	3	0	0	2	0	0	7	2	0	25	5	0	0
December ...	0	0	0	0	0	0	0	0	0	1	2	0	5	1	0	8	3	0	4	1	0	3	3	0	21	10	0	0
Year...	11	4	0	5	1	0	6	1	0	16	7	0	59	15	0	63	15	0	48	12	0	63	19	0	271	74	0	20

ESKDALEMUIR.

January ...	1	0	0	2	2	0	0	0	0	0	0	0	2	1	0	1	11	1	1	3	0	0	2	0	7	19	1	4
February ...	4	1	0	1	1	0	1	0	0	2	0	0	2	0	0	1	1	0	2	1	0	1	1	0	14	5	0	9
March ...	0	0	0	2	0	0	0	0	0	2	1	0	5	2	1	3	5	1	2	4	0	1	1	0	15	13	2	1
April ...	5	2	0	4	2	0	0	0	0	1	0	0	1	0	0	3	3	0	0	1	0	1	0	0	15	8	0	7
May ...	2	0	0	3	0	0	0	0	0	2	0	0	3	3	0	3	4	0	1	1	0	0	0	0	14	8	0	9
June ...	2	2	0	2	2	0	1	0	0	1	0	0	1	0	0	1	1	0	0	2	0	5	1	0	13	8	0	9
July ...	2	0	0	5	1	0	1	0	0	0	0	0	2	0	0	4	2	0	5	1	0	0	0	0	19	4	0	8
August ...	3	1	0	3	1	0	1	0	0	1	0	0	1	1	0	3	3	0	1	2	0	0	0	0	13	8	0	10
September ...	0	0	0	2	0	0	1	0	0	0	0	0	4	0	0	4	3	0	1	0	0	1	0	0	13	3	0	14
October ...	1	1	0	1	0	0	1	0	0	0	0	0	2	1	0	2	5	0	3	1	0	1	2	0	11	10	0	10
November ...	4	1	0	4	0	0	2	1	0	1	0	0	4	0	0	1	0	0	1	1	0	0	1	0	17	4	0	9
December ...	2	0	0	1	0	0	1	1	0	0	0	0	1	2	0	2	10	0	2	5	0	0	2	0	9	20	0	2
Year...	26	8	0	30	9	0	9	2	0	10	1	0	28	10	1	28	48	2	19	22	0	10	10	0	160	110	3	92

TYNEMOUTH.

January ...	1	0	0	1	0	0	0	0	1	1	0	0	1	0	0	5	2	0	9	7	0	1	0	0	19	9	1	2
February ...	1	0	0	0	0	0	0	0	0	2	0	0	2	0	0	5	0	0	11	1	0	3	0	0	24	1	0	3
March ...	1	0	0	1	0	0	0	0	0	1	0	0	1	0	0	9	4	0	8	4	0	2	0	0	23	8	0	0
April ...	2	2	0	2	2	0	2	0	0	1	0	0	0	0	0	3	1	0	8	1	0	4	1	0	22	7	0	1
May ...	1	0	0	0	0	0	1	0	0	0	0	0	1	1	0	6	2	0	10	0	0	6	0	0	25	3	0	3
June ...	3	2	0	2	3	0	0	0	0	1	0	0	0	0	0	1	0	0	8	1	0	6	1	0	21	7	0	2
July ...	4	0	0	1	1	0	1	0	0	3	0	0	3	0	0	2	0	0	10	1	0	5	0	0	29	2	0	0
August ...	4	2	0	1	0	0	2	0	0	1	0	0	0	0	0	2	1	0	11	0	0	5	0	0	26	3	0	2
September ...	2	0	0	1	0	0	2	0	0	1	0	0	2	0	0	7	0	0	14	0	0	1	0	0	30	0	0	0
October ...	2	0	0	0	0	0	0	1	0	1	0	0	1	0	0	6	0	0	14	0	0	3	0	0	27	1	0	3
November ...	0	0	0	0	1	0	0	0	0	4	0	0	4	1	0	6	0	0	7	1	0	4	0	0	25	3	0	2
December ...	0	0	0	0	0	0	0	0	0	1	2	0	1	1	0	3	0	0	18	3	0	2	0	0	25	6	0	0
Year...	21	6	0	9	7	0	8	1	1	17	2	0	16	3	0	55	10	0	128	19	0	42	2	0	296	50	1	18

TABLE XVIII (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

YARMOUTH.

Months.	N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS.			CALMS.
	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January ...	1	0	0	0	1	0	0	0	0	0	0	0	1	2	0	5	7	0	3	7	0	1	3	0	11	20	0	0
February ...	0	1	0	0	4	0	2	1	0	0	3	0	2	1	0	1	0	0	4	1	0	7	1	0	16	12	0	0
March ...	0	0	0	0	1	0	1	0	0	0	0	0	2	0	0	7	6	0	7	3	0	2	2	0	19	12	0	0
April ...	4	2	0	1	3	0	1	4	0	1	1	0	0	1	0	0	0	0	3	0	0	5	2	0	15	13	0	2
May ...	6	1	0	0	3	0	0	1	0	0	0	0	1	2	0	4	3	0	3	2	0	3	0	0	17	12	0	2
June ...	3	3	0	1	10	0	1	0	0	1	1	0	1	0	0	1	0	0	0	0	0	7	1	0	15	15	0	0
July ...	11	1	0	0	0	0	1	0	0	3	2	0	2	1	0	1	1	0	0	5	0	2	0	0	20	10	0	1
August ...	3	0	0	0	1	0	0	2	0	0	0	0	2	1	0	0	2	0	7	4	0	7	1	0	19	11	0	1
September ...	3	1	0	0	0	0	1	1	0	0	3	0	1	0	0	1	0	0	5	3	0	6	0	0	16	9	0	5
October ...	2	1	0	0	0	0	0	0	0	0	1	0	2	0	0	5	1	0	8	1	0	8	1	0	25	5	0	1
November ...	0	1	0	0	0	0	1	4	0	1	5	0	0	4	0	3	1	0	4	1	0	1	3	0	10	19	0	1
December ...	0	1	0	0	0	0	0	2	0	0	2	0	0	0	0	0	2	0	12	7	0	2	2	0	14	16	0	1
Year...	33	12	0	2	23	0	8	15	0	6	18	0	13	13	0	28	23	0	56	34	0	51	16	0	197	154	0	14

NOTTINGHAM.

January ...	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	10	6	0	7	2	0	3	1	0	22	9	0	0
February ...	4	0	0	3	0	0	5	0	0	3	0	0	1	0	0	4	0	0	6	1	0	1	0	0	27	1	0	0
March ...	3	0	0	0	0	0	0	0	0	0	0	0	5	0	0	14	2	0	6	0	0	1	0	0	29	2	0	0
April ...	7	2	0	6	2	0	1	0	0	0	0	0	1	0	0	3	0	0	7	0	0	1	0	0	26	4	0	0
May ...	3	0	0	1	0	0	3	1	0	1	0	0	6	1	0	9	1	0	4	0	0	1	0	0	28	3	0	0
June ...	2	0	0	8	0	0	5	0	0	0	0	0	1	0	0	1	0	0	9	0	0	3	1	0	29	1	0	0
July ...	1	0	0	1	0	0	8	0	0	0	0	0	6	0	0	6	0	0	6	1	0	2	0	0	30	1	0	0
August ...	5	0	0	3	0	0	0	0	0	0	0	0	3	0	0	6	0	0	12	0	0	2	0	0	31	0	0	0
September ...	0	0	0	2	0	0	3	0	0	1	0	0	3	0	0	7	0	0	12	0	0	2	0	0	30	0	0	0
October ...	0	0	0	2	0	0	3	0	0	3	0	0	5	0	0	4	0	0	9	0	0	3	2	0	29	2	0	0
November ...	1	1	0	2	0	0	9	0	0	3	0	0	4	0	0	4	0	0	3	0	0	1	1	0	27	2	0	1
December ...	2	0	0	1	0	0	2	1	0	0	0	0	0	0	0	7	3	0	7	4	0	3	1	0	22	9	0	0
Year...	28	3	0	29	2	0	40	2	0	11	0	0	36	1	0	75	12	0	88	8	0	23	6	0	330	34	0	1

RICHMOND (KEW OBSERVATORY).

January ...	1	0	0	0	0	0	0	0	0	0	0	0	4	1	0	9	7	0	3	1	0	1	0	0	18	9	0	4
February ...	4	0	0	3	0	0	4	1	0	2	0	0	0	0	0	3	0	0	2	0	0	0	0	0	18	1	0	9
March ...	2	0	0	0	0	0	0	0	0	1	0	0	8	1	0	10	1	0	3	0	0	0	0	0	24	2	0	5
April ...	8	1	0	2	0	0	1	1	0	1	0	0	2	0	0	4	0	0	1	0	0	6	0	0	25	2	0	3
May ...	6	0	0	2	1	0	1	0	0	1	0	0	5	0	0	6	2	0	2	0	0	1	0	0	24	3	0	4
June ...	5	1	0	6	2	0	3	0	0	0	0	0	0	0	0	2	0	0	2	0	0	5	0	0	23	3	0	4
July ...	3	0	0	4	0	0	2	2	0	2	0	0	2	0	0	5	3	0	1	0	0	2	0	0	21	5	0	5
August ...	1	0	0	1	0	0	1	0	0	1	0	0	2	0	0	12	2	0	4	1	0	2	0	0	24	3	0	4
September ...	0	0	0	2	1	0	2	0	0	0	0	0	1	1	0	4	1	0	2	0	0	2	0	0	13	3	0	14
October ...	2	0	0	0	0	0	2	0	0	0	0	0	3	0	0	9	1	0	2	0	0	2	0	0	20	1	0	10
November ...	0	0	0	7	0	0	6	0	0	3	0	0	2	0	0	1	1	0	2	0	0	1	1	0	22	2	0	6
December ...	2	0	0	1	1	0	1	1	0	0	0	0	0	0	0	6	3	0	6	3	0	2	2	0	18	10	0	3
Year...	34	2	0	28	5	0	23	5	0	11	0	0	29	3	0	71	21	0	30	5	0	24	3	0	250	44	0	71

TABLE XVIII (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

HOLYHEAD.

Months.	N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS.			CALMS.
	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January ...	0	0	0	0	1	0	0	1	0	0	0	0	2	3	0	1	12	0	1	6	0	0	2	1	4	25	1	1
February ...	1	3	0	1	2	0	2	1	0	5	0	0	2	5	0	0	0	0	1	4	0	0	1	0	12	16	0	0
March ...	0	1	0	0	0	0	0	1	0	0	0	0	0	9	0	2	8	0	1	6	0	1	2	0	4	27	0	0
April ...	2	2	0	2	4	0	5	3	0	0	0	0	1	0	0	1	2	0	1	2	0	1	3	1	13	16	1	0
May ...	1	0	0	0	1	0	1	1	0	1	1	0	1	5	0	3	4	0	1	5	0	2	4	0	10	21	0	0
June ...	2	3	0	0	2	0	2	4	0	1	0	0	3	0	0	1	1	0	1	5	0	2	3	0	12	18	0	0
July ...	1	1	0	3	0	0	2	1	0	6	1	0	1	2	0	2	5	0	0	2	0	3	0	0	18	12	0	1
August ...	2	3	0	2	1	0	2	0	0	0	0	0	0	3	0	2	6	0	0	6	0	1	3	0	9	22	0	0
September ...	0	2	0	0	0	0	2	3	0	3	0	0	4	2	0	4	3	0	0	4	0	1	2	0	14	16	0	0
October ...	0	1	0	0	0	0	2	0	0	3	1	0	4	5	0	3	4	0	0	4	0	1	3	0	13	18	0	0
November ...	1	2	0	0	1	0	3	3	0	3	5	0	1	5	0	2	0	0	0	1	0	0	1	1	10	18	1	1
December ...	0	2	0	0	0	0	1	3	0	0	0	0	1	2	0	1	10	0	0	7	0	0	4	0	3	28	0	0
Year ...	10	20	0	8	12	0	22	21	0	22	8	0	20	41	0	22	55	0	6	52	0	12	28	3	122	237	3	3

BLACKSOD POINT.

January ...	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6	4	0	5	7	0	5	1	0	17	12	0	2
February ...	2	0	0	1	0	0	1	0	0	5	1	0	1	2	0	2	0	0	4	2	0	2	0	0	18	5	0	5
March ...	0	1	0	0	0	0	0	0	0	0	0	0	1	1	0	6	9	2	4	1	0	4	0	0	15	12	2	2
April ...	1	0	0	3	0	0	0	0	0	4	0	0	4	0	0	4	2	0	2	0	0	7	0	0	25	2	0	3
May ...	2	1	0	0	0	0	0	0	0	3	0	0	2	0	0	7	3	0	5	1	0	5	1	0	24	6	0	1
June ...	4	0	0	5	1	0	1	0	0	2	0	0	0	0	0	2	2	0	4	0	0	5	0	0	23	3	0	4
July ...	2	0	0	3	0	0	0	0	0	4	0	0	1	0	0	9	2	0	3	1	0	3	0	0	25	3	0	3
August ...	4	2	0	1	0	0	0	0	0	0	0	0	2	0	0	6	1	0	5	1	0	6	0	0	24	4	0	3
September ...	1	0	0	1	0	0	1	0	0	2	1	0	2	2	0	4	4	0	3	3	0	2	0	0	16	10	0	4
October ...	1	3	0	0	0	0	0	0	0	5	0	0	1	2	0	4	2	0	7	0	0	4	0	0	22	7	0	2
November ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
December ...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Year...	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

MALIN HEAD.

January ...	0	0	0	0	0	0	1	0	0	2	0	0	3	1	0	7	3	0	2	7	0	2	3	0	17	14	0	0
February ...	1	0	0	1	1	0	2	0	0	4	1	0	4	2	0	4	2	0	3	1	0	2	0	0	21	7	0	0
March ...	0	1	0	0	0	0	0	0	0	1	0	0	4	4	0	5	6	0	3	4	0	1	2	0	14	17	0	0
April ...	0	2	0	0	0	0	3	0	0	6	0	0	4	1	0	6	0	0	3	1	0	3	1	0	25	5	0	0
May ...	1	0	0	0	0	0	0	0	0	2	0	0	6	3	0	7	1	0	6	0	0	2	3	0	24	7	0	0
June ...	2	0	0	1	0	0	4	0	0	1	0	0	4	0	0	2	2	0	7	1	0	3	2	0	24	5	0	1
July ...	0	0	0	2	0	0	4	0	0	1	2	0	5	0	0	6	2	0	4	2	0	2	1	0	24	7	0	0
August ...	2	2	0	0	0	0	1	0	0	1	0	0	4	0	0	4	3	0	4	1	0	7	0	0	23	6	0	2
September ...	1	0	0	0	0	0	1	0	0	4	0	0	8	1	0	6	1	0	2	3	0	3	0	0	25	5	0	0
October ...	0	0	0	0	0	0	1	1	0	4	0	0	9	2	0	4	2	0	5	1	0	1	1	0	24	7	0	0
November ...	1	1	0	1	0	0	2	0	0	2	1	0	8	3	0	3	0	0	2	1	0	3	1	0	22	7	0	1
December ...	0	0	0	0	0	0	0	1	0	1	0	0	5	2	0	6	6	0	3	3	0	2	2	0	17	14	0	0
Year...	8	6	0	5	1	0	19	2	0	29	4	0	64	19	0	60	28	0	44	25	0	31	16	0	260	101	0	4

TABLE XVIII (continued).—"WIND ROSE" DATA for TELEGRAPHIC STATIONS.—Frequency of Winds of various strengths from different directions at 7h.

CAHRCIVEEN (VALENCIA OBS.).

Months.	N.			NE.			E.			SE.			S.			SW.			W.			NW.			ALL DIRECTIONS.			CALMS.
	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	Light.	Strong.	Gale.	
January ...	0	0	0	3	0	0	1	0	0	0	0	0	4	5	0	6	6	0	2	2	0	0	2	0	16	15	0	0
February ...	1	0	0	5	1	0	2	1	0	3	2	0	2	1	0	0	0	0	2	1	0	2	0	0	17	6	0	5
March ...	0	1	0	1	0	0	1	0	0	0	0	0	0	7	0	4	7	0	1	4	0	1	3	0	8	22	0	1
April ...	0	2	0	4	3	0	4	0	0	1	1	0	3	1	0	1	0	0	1	1	0	1	1	0	15	9	0	6
May ...	2	2	0	1	0	0	0	0	0	1	0	0	4	2	0	4	2	0	2	1	0	4	2	0	18	9	0	4
June ...	4	1	0	6	0	0	2	1	0	1	0	0	1	0	0	0	0	0	3	0	0	2	0	0	19	2	0	9
July ...	1	1	0	2	1	0	5	0	0	4	2	0	1	2	0	2	3	0	0	2	0	1	0	0	16	11	0	4
August ...	2	3	0	1	1	0	3	0	0	0	1	0	3	2	0	1	3	0	2	3	0	1	2	0	13	15	0	3
September ...	3	0	0	3	0	0	5	1	0	2	0	0	3	3	0	1	2	0	1	2	0	0	0	0	18	8	0	4
October ...	2	1	0	6	1	0	1	1	0	2	2	0	4	6	0	1	2	0	2	0	0	0	0	0	18	13	0	0
November ...	0	1	0	4	0	0	3	3	0	1	4	0	2	5	0	1	1	0	0	2	0	0	2	0	11	18	0	1
December ...	0	0	0	1	0	0	1	1	0	1	0	0	2	3	0	1	8	0	2	4	0	1	6	0	9	22	0	0
Year...	15	12	0	37	7	0	28	8	0	16	12	0	29	37	0	22	34	0	18	22	0	13	18	0	178	150	0	37

SCILLY.

January ...	1	0	0	0	0	0	1	0	0	0	0	0	1	2	0	5	4	0	5	7	1	1	2	0	14	15	1	1
February ...	0	1	0	1	1	0	7	3	0	2	3	0	2	2	0	0	0	0	0	0	0	3	1	0	15	11	0	2
March ...	0	2	0	1	0	0	0	0	0	0	0	0	1	6	0	5	1	0	2	7	0	1	5	0	10	21	0	0
April ...	4	3	0	2	1	0	7	1	0	1	1	0	1	0	0	0	0	0	1	1	0	4	2	0	20	9	0	1
May ...	3	1	0	4	0	0	2	0	0	0	0	0	0	0	0	4	0	0	4	3	0	7	2	0	24	6	0	1
June ...	6	0	0	5	0	0	7	1	0	1	0	0	0	0	0	0	0	0	2	1	0	2	2	0	23	4	0	3
July ...	4	0	0	1	0	0	3	1	0	2	1	0	3	0	0	3	0	0	4	1	0	2	1	0	22	4	0	5
August ...	3	2	0	2	0	0	1	0	0	0	0	0	1	0	0	4	0	0	8	2	0	2	2	0	21	6	0	4
September ...	0	0	0	2	0	0	9	3	0	2	0	0	0	0	0	1	2	0	1	2	0	1	1	0	16	8	0	6
October ...	4	0	0	3	1	0	3	0	0	6	2	0	3	0	0	4	0	0	0	1	0	0	1	0	23	5	0	3
November ...	1	1	0	0	1	0	2	3	0	0	7	0	3	2	0	1	0	0	3	2	0	0	3	1	10	19	1	0
December ...	1	1	0	0	1	0	2	1	0	0	0	0	1	0	0	0	3	0	5	10	0	1	5	0	10	21	0	0
Year...	27	11	0	21	5	0	44	13	0	14	14	0	16	12	0	27	10	0	35	37	1	24	27	1	208	129	2	26

JERSEY.

January ...	...	0	1	0	1	0	0	0	0	0	0	1	0	1	4	0	4	7	0	4	6	0	1	1	0	11	20	0	0
February	...	0	0	0	3	2	0	6	5	0	3	3	0	1	0	0	0	0	0	3	0	0	1	0	0	17	10	0	1
March ...	...	2	0	0	0	1	0	1	0	0	1	2	0	1	3	0	5	1	0	4	4	0	2	3	0	16	14	0	1
April ...	...	6	2	0	4	4	0	3	1	0	0	0	0	0	0	0	0	1	0	2	2	0	3	0	0	18	10	0	2
May ...	...	4	0	0	3	3	0	2	0	0	1	0	0	1	1	0	3	3	0	4	1	0	5	0	0	23	8	0	0
June ...	...	3	0	0	4	4	0	5	4	0	0	0	0	0	0	0	0	0	0	3	1	0	5	1	0	20	10	0	0
July ...	...	1	0	0	10	0	0	7	0	0	1	0	0	1	0	0	2	0	0	1	3	0	5	0	0	28	3	0	0
August ...	...	3	1	0	2	0	0	2	0	0	1	0	0	1	0	0	2	0	0	6	5	0	7	1	0	24	7	0	0
September	...	1	0	0	11	3	0	4	0	0	1	0	0	0	1	0	3	0	0	3	2	0	1	0	0	24	6	0	0
October ...	...	2	0	0	4	1	0	13	0	0	1	0	0	0	0	0	3	1	0	4	1	0	0	0	0	27	3	0	1
November	...	1	0	0	4	2	0	5	3	0	3	3	0	0	0	0	1	1	0	2	2	0	2	0	0	18	11	0	1
December	...	3	0	0	2	3	0	2	0	0	0	0	0	0	0	0	1	3	0	4	5	0	5	3	0	17	14	0	0
Year	26	4	0	48	23	0	50	13	0	12	9	0	6	9	0	24	17	0	40	32	0	37	9	0	243	116	0	6

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